IBM Endpoint Manager for Remote Control



Console Users Guide

Version 9 Release 0

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Note

Before using this information and the product it supports, read the information in "Notices" on page 83.

This edition applies to version 9, release 0, modification level 0 of IBM Endpoint Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

Chapter 1. Overview of the IBM Endpo Manager for Remote Control system	int	1
3		
Chapter 2. Definitions	•	3
Chapter 3. Using the IBM Endpoint Manager for Remote Control console.		5
Components		. 5
Chapter 4. Dashboards overview		9
		9
Viewing deployment distribution data	•	• /
Viewing deployment distribution data Chapter 5. Using IBM Endpoint Manager for Remote Control		13
Viewing deployment distribution data Chapter 5. Using IBM Endpoint Manager for Remote Control Deploying the IBM Endpoint Manager for Remote		13
Viewing deployment distribution data	• •	13
Viewing deployment distribution data	• • •	13 13 14
Viewing deployment distribution data	• • •	13 13 14 25
Viewing deployment distribution data		13 13 14 25
Viewing deployment distribution data		13 13 14 25 35
Viewing deployment distribution data	•	13 13 14 25 35 36
Viewing deployment distribution data		13 13 14 25 35 36 40
Viewing deployment distribution data		13 13 14 25 35 36 40 45
Viewing deployment distribution data		13 13 14 25 35 36 40 45 45

Responding to warnings		48
Managing target and server configurations		. 49
Creating IBM Endpoint Manager for Remote		
Control server installation tasks		49
Creating IBM Endpoint Manager for Remote		
Control target configuration tasks		55
Running IBM Endpoint Manager for Remote		
Control tasks		69
Analyses		70
Retrieving target installation and security data		. 70
Retrieving audit events data		71
Retrieving user, session and performance data.		72
Retrieving session connection data		73
Retrieving session activity data		74
Chapter 6. Viewing web reports	•	77
Appendix A Frequently Asked		
Appendix A: Frequency Acked		70
	•	19
Appendix B. Support	•	81
Notices	•	83
Index		87

Chapter 1. Overview of the IBM Endpoint Manager for Remote Control system

The IBM[®] Endpoint Manager for Remote Control system includes the following main components:

IBM Endpoint Manager for Remote Control Target

The target is installed on every computer that you want to control remotely with IBM Endpoint Manager for Remote Control. It listens for connection requests that come from the controller. The target can also be used to start a remote control session over the internet, by using a broker.

Targets that are outside of your intranet can be configured to register their details with the server. Sessions with these targets are managed by server policies. The targets must be deployed with the **Managed** property set to Yes. The **ServerURL** and **BrokerList** properties must also be configured. If you are using version 9.0.1, targets can also be configured so that they do not send their details to the server. These targets are classed as unregistered targets. There are two ways to configure unregistered targets. You can install the target software and set the **Managed** property to No. The **BrokerList** property must also be set. You can also use the on-demand target features to start a remote control session with a computer that does not have any target software preinstalled. Server policies are used to manage the on-demand sessions. The target software is deleted at the end of the session. The IBM Endpoint Manager for Remote Control target can run in Windows, Linux, and Solaris operating systems.

IBM Endpoint Manager for Remote Control Controller

Can be installed by using the Fixlet or installer that is provided for use in peer to peer sessions. It can also be launched in context from the remote control server or the IBM Endpoint Manager console. In all instances, the controller can be used to allow the user to control a remote computer on which the remote control target is installed. The controller delivers an interface to several actions, available to the controller user, like remote control, guidance, chat, file transfer, collaboration, and many more. IBM Endpoint Manager for Remote Control controller supports JRE versions: Sun 1.6, Oracle 1.6, 1.7 or IBM[®] 1.5, 1.6, 1.7.

IBM Endpoint Manager for Remote Control Server

A web application that manages all the deployed targets that are configured to be in managed mode and to point to the IBM Endpoint Manager for Remote Control Server 's URL. The server is a web application that can be deployed on an existing WebSphere[®] server, or installed through the installer package along with an embedded version of WebSphere. The server listens for HTTP or HTTPS connections by default. When it is installed with the embedded WebSphere option, it listens on ports 80 and 443. When it is deployed on top of an existing WebSphere server, the IBM Endpoint Manager for Remote Control server listens on ports 9080 and 9443. The server requires a database server: embedded Derby, only for proof of concept deployments, DB2[®], SQL Server, and Oracle are the supported options. Additionally, it can also be configured to synchronize and authenticate user and group data from an LDAPv3 server, like Active Directory or Tivoli Directory Server. This deployment scenario has the same networking characteristics as peer to peer. Therefore, direct TCP connectivity is required between all the controllers and all the targets.

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However, the IBM Endpoint Manager for Remote Control server provides a method of centralized, and finer, policy control, where targets can have different policies that are determined by the user who is trying to start the remote control session. The Server also provides for centralized audit and storage of full session automatic recordings. In this scenario, the controller is not a stand-alone application.but is started as a Java[™] Web Start application from the IBM Endpoint Manager for Remote Control server's web interface to start the remote control session.

Note: Peer to peer and managed are not exclusive modes. The IBM Endpoint Manager for Remote Control target can be configured in the following ways.

- Configured to be strictly managed.
- Configured to fail back to peer to peer mode when the server is not reachable.
- Configured to accept both peer to peer and managed remote control sessions.

The following components can be used only in managed mode:

IBM Endpoint Manager for Remote Control CLI tools

Are always installed as part of the target component but it is also possible to install them separately. The CLI provides command-line tools for the following tasks:

- Script or integrate the launch of managed remote control sessions.
- Run remote commands on computers with the managed target installed.

IBM Endpoint Manager for Remote Control Gateway

A service that is installed in computers in secure network boundaries, where there is strict control of traffic flows between the secure networks. For example, the firewall at the boundary allows only traffic between a pair of specific IP address and ports. In these scenarios, a network of gateways can be deployed. The gateway routes and tunnels the remote control traffic from the controller that is sitting in a particular network zone, to the target that is in a different network zone. The gateway is a native service that can be installed on a computer that has a Windows or Linux operating system installed. It does not have a default listening port, although 8881 is a usual choice, and can be configured for multiple incoming listening ports and outgoing connections.

IBM Endpoint Manager for Remote Control Broker

A service that is installed in computers typically in a DMZ so that computers out of the enterprise network, in an Internet cafe or at home, can reach it. The IBM Endpoint Manager for Remote Control broker receives inbound connections from the controller and the target and tunnels the remote control session data between the two components. The broker is a native service that can be installed on a Windows or a Linux computer. It does not have a default listening port, but 443 is a recommended option because usually this port is open for outbound connections and has fewer issues with content filtering than, for example, 80 would have.

Chapter 2. Definitions

This section defines some common terms used when using IBM Endpoint Manager for Remote Control.

Remote control session

Establishing a connection to a computer in your environment to observe or actively control the computer remotely. In the session the controller user's keyboard and mouse become the primary keyboard and mouse for the remote system. Functionality such as chat, guidance, reboot, and file transfer are some of the options available for use in a remote control session. See the IBM Endpoint Manager for Remote Control Controller User's Guide for more details of the types of session that can be established, the functionality of the controller GUI and the features available within these sessions.

Peer to peer session

A remote control session that is established directly between the controller and the target. The controller user starts the controller component locally and specifies the target that they want to takeover remotely. The local properties that have been set on the target will be used for the session. See "Managing target and server configurations" on page 49 for more information. For details about using the controller GUI once the session is established see the IBM Endpoint Manager for Remote Control Controller User's Guide.

Managed remote control session

A remote control session in which the controller user initiates the session from the IBM Endpoint Manager for Remote Control server. From here the controller component is initiated and contacts the target to send the session request. The target contacts the server to authenticate the request and obtain the policies and permissions that will be set for the session. For more information on policies and permissions for a managed remote control session, see the IBM Endpoint Manager for Remote Control Administrator's Guide. If the target cannot reach the server, the session is refused.

Session policies

Session policies define the actions that can be carried out by the controller user and the features available on the target system during a remote control session. In a peer to peer session these are determined by the local properties defined on the target and in a managed session they are determined by policies and permissions resolved from user and target group relationships. For more information on how policies and permissions are derived for a managed remote control session, see IBM Endpoint Manager for Remote Control Administrator's Guide.

Chapter 3. Using the IBM Endpoint Manager for Remote Control console

IBM Endpoint Manager for Remote Control encompasses a host of new features that provide the components required for remote takeover and monitoring of workstations and servers in your deployment.

In addition, the IBM Endpoint Manager Console changed after version 7.2 which resulted in several new navigation updates for accessing your data. This section will address how to get around in the new Console. The navigation tree in the IBM Endpoint Manager Console, which is available for all IBM Endpoint Manager products, will serve as your central command for all IBM Endpoint Manager for Remote Control functionality. The navigation tree gives you easy access to all reports, wizards, Fixlet messages, analyses and tasks related to controlling and managing the target machines in your network.

Components

The IBM Endpoint Manager Console organizes content into four parts:

- Domain Panel Includes navigation tree and list of all domains.
- Navigation Tree Includes list of nodes and sub-nodes containing site content.
- List Panel Contains listing of tasks and Fixlets.
- Work Area Work window where Fixlet and dialogs display.



In the context of the IBM Endpoint Manager Console, products or sites are grouped by categories or domains. For example, IBM Endpoint Manager for Remote Control is one of the sites contained within the Systems Lifecycle domain, as part of the Remote Control Configuration node.



The Domain Panel is the area on the left side of the Console that includes a navigation tree and a list of all domains. The Navigation Tree includes a list of nodes and sub-nodes containing site content.

In the image below, you will see a navigation "tree" at the top with expandable and collapsible nodes, and a list of domains at the bottom. By clicking the Systems Lifecycle domain at the bottom of the domain panel, a list of sites associated with that particular domain will display in the navigation tree at the top.

Systems Lifecycle	~
Image: Systems Lifecycle Domain Domain Image: Systems Lifecycle Domain Panel Image: Systems Lifecycle Domain Panel	
 IBM Endpoint Manager for Remote Control IBM Endpoint Manager for Remote Control Overview Warnings (1) Deployment (20) Windows (10) Linux (10) Update (10) Windows (5) Linux (5) Manage Configurations (1) Analyses (5) 	
All Systems Lifecycle Navigation	
Systems Lifecycle	

The red outlined area represents the entire Domain Panel (including the navigation tree and list of domains), and the blue outlined area contains just the Navigation Tree for the IBM Endpoint Manager for Remote Control site.

IBM Endpoint Manager for Remote Control tasks are sorted through upper and lower task windows, which are located on the right side of the Console.

		Search Analyses	<u> م</u>
itatus	Name	Site	Applicable Computer
Activated Globally	Remote Control Installation and Security Options	Tivoli Remote Control	0
lot Activated	Remote Control Controller Logs	Tivoli Remote Control	4
Vot Activated	Remote Control User, Session and Performance Options	Tivoli Remote Control	0
lot Activated	Remote Control Target Logs (Start/Stop)	Tivoli Remote Control	0
lot Activated	Remote Control Target Logs	Tivoli Remote Control	0
	III		Þ
nalysis: Remote Contro	Controller Logs		d 🛙
Description Details	Applicable Computers (4)		
This analysis	shows the logs of IBM Endpoint Manager for Remote on is retrieved from each computer's local logs.	Control Controller aud	it events.

The upper panel (blue), called the List Panel , contains columns that sort data according to type, for example, Status, Name, Site, Applicable Computer Count. The lower panel or Work Area (red) presents the fixlet, task screen from which you will be directed to take specific actions to customize the content in your deployment.

Chapter 4. Dashboards overview

IBM Endpoint Manager for Remote Control offers a convenient dashboard for viewing the deployment distribution of the IBM Endpoint Manager for Remote Control components in your environment and the distribution of the type of target deployment carried out. You can access this dashboard from the top of the IBM Endpoint Manager for Remote Control navigation tree by selecting **IBM Endpoint Manager for Remote Control Overview**.



Viewing deployment distribution data

The IBM Endpoint Manager for Remote Control Overview dashboard includes two separate sections showing the deployment distribution of IBM Endpoint Manager for Remote Control and the target deployment type, distribution . Each section is explained below:

The **IBM Endpoint Manager for Remote Control Overview Deployment** section displays the number of computers in your environment having the various IBM Endpoint Manager for Remote Control components installed. You can view different representations of the data by clicking on the buttons at the top right of the section to display a graphical version or data table version.



You can also view both representations of the data by clicking the button on the bottom left of the graph.



The **Target Deployment Mode** section shows the distribution of the type of target deployment that was carried out, on the computers in your environment which have the IBM Endpoint Manager for Remote Control agent software running. See "Deploying the IBM Endpoint Manager for Remote Control components" on page 13 for details of the different target deployment types. You can view different representations of the data by clicking on the buttons at the top right of the section to display a graphical version or data table version.



Both representations of the data can be viewed using the same instructions as in the previous section.

There are two icons on the top right of the dashboard that you can use for displaying the latest graphical data or for printing the data .

The refresh icon can be used to display the latest deployment distribution data.

The print icon **a** can be used to print the dashboard data. The data will be printed to a pdf file that you can save to a specified location for future printing.

Chapter 5. Using IBM Endpoint Manager for Remote Control

The IBM Endpoint Manager for Remote Control navigation tree provides a suite of fixlets, tasks and wizards that you can use for deploying, updating and gathering data from the components required to configure, monitor and control the computers in your environment.

Deploying the IBM Endpoint Manager for Remote Control components

The **Deployment** node in the IBM Endpoint Manager for Remote Control navigation tree provides two sub-nodes which are operating system specific. These sub-nodes provide the components you need to establish a remote control session as well as other utilities that you can use, to connect to targets by using the command line and for installing support for accessing machines on different networks. Select the node which is relevant to your operating system to view a list of tasks that you can use to deploy or remove the required IBM Endpoint Manager for Remote Control components and utilities.

Note: The IBM Endpoint Manager for Remote Control can also be deployed using the installation media. For more details, see the IBM Endpoint Manager for Remote Control Installation Guide.

Controller

The controller component must d be deployed on the computers that will initiate the remote control session when you do not have access to a IBM Endpoint Manager for Remote Control server.

Target The target component must be deployed on the computers that will be controlled during a remote control session. IBM Endpoint Manager for Remote Control offers two ways of deploying the target component depending on how you will establish a connection with the target. Both of these session types are explained in the Chapter 2, "Definitions," on page 3 section and in more detail in the IBM Endpoint Manager for Remote Control Controller User's Guide.

Note: It should be noted that the 'Using the IBM Endpoint Manager for Remote Control server' method requires a IBM Endpoint Manager for Remote Control server to have already been installed in your environment.

CLI tools

The command line tools contain two utilities that can be run from the command line. You can use these utilities to start a remote control session with a target or run commands on a target system without target user interaction. Once installed, these tools can be useful if you want to connect to a target without accessing the IBM Endpoint Manager for Remote Control Server interface or for using as part of a script to run multiple commands in an automated fashion.

Note: To deploy the CLI Tools you need to have the URL of a IBM Endpoint Manager for Remote Control server that you have access to.

Gateway

If you have targets, controllers and severs on different networks that cannot directly contact each other you can install and configure gateway support. With the gateway support you can configure your network to allow these connections to be established.

Systems Lifecycle «	Deployment	Search Deployment	P
Systems Lifecycle Domain	Name	×	_
 Remote Control Configuration BM Endpoint Manager for Remote Control IBM Endpoint Manager for Remote Control Overview Windows (1) Deployment (20) Windows (0) Windows (5) Manage Configurations (1) Analyses (5) All Systems Lifecycle 	Deploy IBM Endpoint Mar Deploy IBM Endpoint Mar Task: Deploy IBM Endpoint Task: Deploy IBM Endpoint Task: Deploy IBM Endpoint Description Details A Description This task will d Control Broker	ager For Remote Control Broker for Linux ager For Remote Control Broker for Windows ager for Remote Control CLI Tools for Linux bager for Remote Control CLI Tools for Windows ager for Remote Control Controller for Linux bager for Remote Control Controller for Linux bager for Remote Control Gateway for Linux bager for Remote Control Gateway for Windows bager for Remote Control Broker for Linux bager for Remote Control Broker for Linux bager for Remote Control Broker for Linux copy Bexport Hide Locally Hide Globally ≪ Remote pplicable Computers (4) Action History (2) bager for Linux. Copportion Broker in a component docigned to	E

Windows deployment

The Windows deployment node provides a set of tasks you can use to install or remove the following components in a Windows environment.

- target and controller software
- CLI tools
- gateway support
- broker support

Deploying the Windows target

You can use the **Deploy IBM Endpoint Manager for Remote Control Target for Windows** task to install the target software onto a Windows computer. To initiate this task complete the following steps:

- 1. In the navigation tree, click **Deployment** > **Windows**.
- 2. Click Deploy IBM Endpoint Manager for Remote Control target for Windows.
- **3.** In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

There are two actions available for this task. Determine your required installation method and follow the instructions given.

ask: Deploy II	3M Endpoint Manager for Remote Control Target for Windows	d 🗆
🏱 Take Actio	n + 🖋 Edit Copy 🎰 Export Hide Locally Hide Globally 💥 Remove	
Description	Details Applicable Computers (0) Action History (0)	
Descr	iption	
This Tar <u>c</u>	task will deploy: IBM Endpoint Manager for Remote Control get for Windows.	
Note oper (888 acco	e: A default Firewall rule will be added to the Windows Firewall to n the inbound IBM Endpoint Manager for Remote Control port 8 by default). Please adjust your domain firewall rules ordingly.	
Action	ns	
CI (Rec	ick <u>here</u> to deploy the Remote Control Target in Peer2Peer mode ommended).	
Cl Contr insta	ick <u>here</u> to deploy the Remote Control Target and specify the Remote rol Server (Only use this option if you have a Remote Control Server lled).	

Deploy the remote control target in Peer2Peer mode

With this installation method you can establish remote control sessions directly between the controller and the target without the need for a IBM Endpoint Manager for Remote Control server. This deployment method installs the target without requiring a IBM Endpoint Manager for Remote Control server URL to be specified and the local target policies set by this installation method are used when a remote control session is established. For details of the target installation properties, see "Managing target and server configurations" on page 49.

In the Take Action window on the Target tab, select the required option for determining which targets to deploy the IBM Endpoint Manager for Remote Control target on.

Click **OK** and enter your Private Key Password.

The summary screen shows the progress of the task and displays status complete when it is finished.

Note: If you want the target to register with the IBM Endpoint Manager for Remote Control server in the future you can use the IBM Endpoint Manager for Remote Control Target Wizard to create a configuration task and specify the server URL of the required server. Running this task on the selected target will re configure it so that it can contact the server. For more details, see "Creating IBM Endpoint Manager for Remote Control target configuration tasks" on page 55.

Deploy the remote control target and specify the IBM Endpoint Manager for Remote Control Server

Chose this installation option for targets to register with the IBM Endpoint Manager for Remote Control server and take part in remote control sessions initiated from the server. This deployment method will require a IBM Endpoint Manager for Remote Control server URL to be specified. If a remote control session, initiated from the Remote Control server, is requested with this target the specified server will be contacted to authenticate the request. When the request is authenticated, the policies set for the session will be passed from the Remote Control server to the target and the session will be established. See "Managing target and server configurations" on page 49 for details of the target installation properties.

Enter the URL of your IBM Endpoint Manager for Remote Control server and click **OK**.

Enter the URL of Control server:	f the IBM Endpoint M	lanager for Remote	
			-
example.com			

In the Take Action window on the Target tab, select the required option for determining which targets to deploy the IBM Endpoint Manager for Remote Control target on.

Click OK and enter your Private Key Password.

The summary screen will show the progress of the task and will show status complete when it is finished.

Note: This installation option should only be chosen if you have the IBM Endpoint Manager for Remote Control server component installed and running.

Removing the Windows target

You can use the **Uninstall IBM Endpoint Manager for Remote Control Target for Windows** task to remove the target software from a Windows computer which has the target software already installed. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Windows** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control target for Windows .
- **3.** In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

escription	Details	Applicable	e Compute	rs (0)	Action Histo	ory (3)	
Descr	ption						
This Cont	task wil rol Targ	l uninstal et for Wii	l: IBM End ndows.	dpoint	Manager	for Remo	te
Action	IS						
-					1 f	. D	

- 4. In the Take Action window, on the Target tab, select the required option for determining which targets to remove the IBM Endpoint Manager for Remote Control target from.
- 5. Click OK and enter your Private Key Password.

Note: It should be noted that after the removal of the target there might be some files, which were created as part of the normal execution of the target program, that are not deleted automatically. These files are located in Documents and Settings\All Users\Application Data\IBM\Tivoli\Remote Control.

Deploying the Windows controller

You can use the **Deploy IBM Endpoint Manager for Remote Control Controller for Windows** task to install the controller software onto a Windows computer.

Note: If you want to be able to start a remote control session with targets from the IBM Endpoint Manager console, deploy the controller to the same machine as the console is installed on. However it should be noted that when the controller is deployed it is only the current user who is logged on to the machine that you are deploying to that will have the rights to see the menu item that allows you to start a session, it will not be visible to other users.

To initiate this task complete the following steps:

- 1. Click **Deployment** > **Windows** in the navigation tree.
- 2. Click Deploy IBM Endpoint Manager for Remote Control Controller for Windows .
- **3.** In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

Take Actio	n / Z Edit Copy Resport Hide Locally Hide Globally
Description	Details Applicable Computers (1) Action History (0)
Descr	iption
This Con	task will deploy: IBM Endpoint Manager for Remote trol Controller for Windows.
Action	าร

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to deploy the controller on.
- 5. Click **OK** and enter your Private Key Password.

Removing the Windows controller

You can use the **Uninstall IBM Endpoint Manager for Remote Control Controller for Windows** task to remove the controller software from a Windows computer which has the controller software already installed. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Windows** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control Controller for Windows .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

chption	Details	Applicable Computers (0) Action History (3)
Descri	ption	
This Cont	task wil rol Con	l uninstall: IBM Endpoint Manager for Remote troller for Windows.
Action	S	
Cli	ck <u>here</u>	to uninstall IBM Endpoint Manager for Remote Control.

- 4. In the Take Action window, in the Target tab, select the required option for determining which targets to remove the IBM Endpoint Manager for Remote Control controller from.
- 5. Click OK and enter your Private Key Password.

Deploying the Windows CLI tools

You can use the **Deploy IBM Endpoint Manager for Remote Control CLI Tools for Windows** task to install the CLI tools onto a Windows computer. To initiate this task complete the following steps:

Note:

- 1. You do not need to deploy the CLI tools on any computers that you have deployed the target on as these computers will already have the CLI tools installed along with the target.
- 2. To deploy this task you need the URL for a IBM Endpoint Manager for Remote Control server that you have access to.
- 1. Click **Deployment** > **Windows** in the navigation tree.
- 2. Click Deploy IBM Endpoint Manager for Remote Control CLI Tools for Windows.
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

	on / Ed	ait Copy 👘 Export Hide Loc	ally Hide Globally	
Description	Details	Applicable Computers (1) Act	on History (0)	
00				
Descr	iption			
This	task wi	ll doplov: IPM Endpoint Man	n nar far Damata	
		1 GEDIUV, IBM FUGDUNU MAU	aderiorkemore	
Con	trol CLI	Tools for Windows.	ager for Remote	
Con	trol CLI	Tools for Windows.	ager for Remote	
Con	trol CLI	Tools for Windows.	ager for Remote	

- 4. Enter the URL of the IBM Endpoint Manager for Remote Control server and click OK.
- 5. In the Take Action window on the Target tab, select the required option for determining which targets to deploy the CLI tools on.
- 6. Click OK and enter your Private Key Password.

You should now have the following two CLI utilities installed in the \Program Files\IBM\tivoli\Remote Control\Target directory on the targets that were selected when you ran the deployment task.

wrc.exe

Use this tool to start a remote control session with a target.

wrcmdpcr.exe

Use this tool to run a command on a target and see the output from the command on the machine that you issued the command from.

For more details on how to use the command line tools see the IBM Endpoint Manager for Remote Control Controller User's Guide.

Removing the Windows CLI tools

You can use the **Uninstall IBM Endpoint Manager for Remote Control CLI Tools for Windows** task to remove the CLI tools from a Windows computer which has the CLI tools already installed. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Windows** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control CLI Tools for Windows .
- **3.** In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

		-
Description	Details Applicable Computers (0) Action History (0)	
5 J		
Descr	iption	
This	task will uninstall: IBM Endpoint Manager for Remote	
Cont	trol CLI Tools for Windows.	
Action	ns	
120122-2202		

- 4. In the Take Action window, in the Target tab , select the required option for determining which targets to remove the CLI tools from.
- 5. Click OK and enter your Private Key Password.

The summary screen will show the progress of the task and will show status complete when it is finished. The CLI tools should no longer be present on the selected targets.

Note: It should be noted that after the removal of the cli tools there could be some files, which were created as part of the normal execution of the cli installation program, that are not deleted automatically. These files are located in Documents and Settings\All Users\Application Data\IBM\Tivoli\Remote Control.

Deploying the Windows gateway support

You can use the **Deploy IBM Endpoint Manager for Remote Control Gateway for Windows** task to install gateway support onto a Windows computer. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Windows** in the navigation tree.
- 2. Click Deploy IBM Endpoint Manager for Remote Control Gateway for Windows .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ription	Details Applicable Computers (1) Action History (0)
Desci	iption
This Con	task will deploy: IBM Endpoint Manager for Remote trol Gateway for Windows.
The Con sect com Rem	Gateway is a component designed to facilitate Remote trol sessions in a partitioned network with different are zones within the enterprise network environment. This ponent requires that the targets are managed with a lote Control server.
Actio	ns
• C	ick here to deploy IBM Endpoint Manager for Remote Control

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to deploy the gateway support on.
- 5. Click OK and enter your Private Key Password.

You should now have gateway support installed on the targets that were selected when you ran the deployment task. The files for this have been installed in the \Program Files\IBM\tivoli\Remote Control\Gateway directory on the selected targets.

To make use of the gateway support you will need to setup a gateway configuration for your environment. For more details see the IBM Endpoint Manager for Remote Control Administrator's Guide

Removing the Windows gateway support

You can use the **Uninstall IBM Endpoint Manager for Remote Control Gateway support for Windows** task to remove the gateway support files from a Windows computer which has these files already installed. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Windows** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control Gateway for Windows .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

Turc Actio	n 🧷 Ec	dit Copy 🎰 Export Hide	e Locally Hide Globally	
Description	Details	Applicable Computers (0)	Action History (0)	
-				7
Descr	iption			
This	task wi	ll uninstall: IBM Endpoir	t Manager for	
	010 00.			53
	ns			Ĩ
Action				

- 4. In the Take Action window, in the Target tab , select the required option for determining which targets to remove the gateway support from.
- 5. Click **OK** and enter your Private Key Password.

The gateway support files should no longer be present on the selected targets.

Deploying Windows broker support

You can use the Deploy IBM Endpoint Manager for Remote Control Broker for Windows task to install broker support on a Windows computer

To initiate this task complete the following steps:

- 1. Click on **Deployment** > **Windows** in the navigation tree.
- 2. Click Deploy IBM Endpoint Manager for Remote Control Broker for Windows .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

100100	
ptior	Details Applicable Computers (2) Action History (2)
Desc	ription
Thi Coi	s task will deploy: IBM Endpoint Manager for Remote ntrol Broker for Windows.
The Rer out rec ser	e Internet Connection Broker is a component designed to facilita note Control sessions through the Internet when the targets ar side of the enterprise network environment. This component juires that the targets are managed with a Remote Control ver.
Actio	ons
• (for)	Click here to deploy IBM Endpoint Manager For Remote Control Broker

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to deploy the broker support on.
- 5. Click **OK** and enter your Private Key Password.

The summary screen will show the progress of the task and will show status complete when it is finished. You should now have broker support installed on the targets that were selected when you ran the deployment task. The files for this will have been installed in the *[working dir]*\Broker directory on the selected targets, where *[working dir]* is determined by the version of Windows that you are installing the broker support on. For example C:\Documents and Settings\All Users\Application Data\IBM\Tivoli\Remote Control. To make use of the broker support you will need to setup a broker configuration for your environment. For more details see the IBM Endpoint Manager for Remote Control Administrator's Guide.

Removing Windows broker support

You can use the Uninstall IBM Endpoint Manager for Remote Control Broker for Windows task to remove broker support from a Windows computer

To initiate this task complete the following steps:

- 1. Click on **Deployment** > **Windows** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control Broker for Windows .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

iption	Details Applicable Computers (0) Action History (2)
Descri	ption
This Broke	ask will uninstall: IBM Endpoint Manager for Remote Control for Windows.
Action	5
Clie	ck <u>here</u> to uninstall IBM Endpoint Manager for Remote Control Broker ndows.

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to remove the broker support from.
- 5. Click OK and enter your Private Key Password.

The summary screen will show the progress of the task and will show status complete when it is finished. The broker support files will have been removed from the chosen targets.

Linux deployment

The Linux deployment node provides a set of tasks that you can use to install or remove the following components in a Linux environment.

- target and controller software
- CLI tools
- gateway support
- broker support

Note: If you are installing the target, cli and gateway components on a Red Hat 6.0 64 bit machine the following libraries along with their dependencies, need to be installed if they are not already installed. For all: glibc.i686 and additionally for the target component: libXmu.i686, libXi.i686, libXtst.i686.

Deploying the Linux target

You can use the **Deploy IBM Endpoint Manager for Remote Control Target for Linux** task to install the target software onto a Linux computer. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Linux** in the navigation tree.
- 2. Click Deploy IBM Endpoint Manager for Remote Control target for Linux .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

There are two actions available for this task. Determine your required installation method and follow the instructions given.

ake Actio	n • 🥜 Edit Copy 🏨 Export Hide Locally Hide Globally 🗮 Remove
cription	Details Applicable Computers (4) Action History (4)
Descr	ption
This Linu:	task will deploy: IBM Endpoint Manager for Remote Control Target for <.
Note the i defa	: A default Firewall rule will be added to the system firewall to open nbound IBM Endpoint Manager for Remote Control port (888 by ult).
Note Inter tools Rem	: If the IBM Endpoint Manager for Remote Control Command-line face tools package is already installed, it will be uninstalled first. The s will then still be available as part of the IBM Endpoint Manager for ote Control Target.
Action	IS
Cli (Reco	ck <u>here</u> to deploy the IBM Control Target in Peer2Peer mode mmended).
Cli	ck here to deploy the IBM Control Target and specify the Remote Control

Deploy the remote control target in Peer2Peer mode

With this installation method you can establish remote control sessions directly between the controller and the target without the need for a IBM Endpoint Manager for Remote Control server. This deployment method installs the target without requiring a IBM Endpoint Manager for Remote Control server URL to be specified and the local target policies set by this installation method are used when a remote control session is established. See "Managing target and server configurations" on page 49 for details of the target installation properties.

In the Take Action window on the Target tab, select the required option for determining which targets to deploy the IBM Endpoint Manager for Remote Control target on.

Click OK and enter your Private Key Password.

The summary screen will show the progress of the task and will show status complete when it is finished.

Note: If you want the target to register with the IBM Endpoint Manager for Remote Control server in the future you can use the IBM Endpoint Manager for Remote Control Target Wizard to create a configuration task and specify the server URL of the required server. Running this task on the selected target will re configure it so that it can contact the server. See "Creating IBM Endpoint Manager for Remote Control target configuration tasks" on page 55.

Deploy the remote control target and specify the IBM Endpoint Manager for Remote Control Server

Choose this installation option for targets to register with the IBM Endpoint Manager for Remote Control server and take part in remote control sessions initiated from the server. This deployment method will require a IBM Endpoint Manager for Remote Control server URL to be specified. If a remote control session, initiated from the Remote Control server, is requested with this target the specified server will be contacted to authenticate the request. When the request is authenticated, the policies set for the session are passed from the Remote Control server to the target and the session is established. For details of the target installation properties, see "Managing target and server configurations" on page 49.

Enter the URL of your IBM Endpoint Manager for Remote Control server and click OK.

Enter the URL of the IBM Endpoint Manager for Re Control server:	emote 🔺
	+
example.com	

In the Take Action window on the Target tab, select the required option for determining which targets to deploy the IBM Endpoint Manager for Remote Control target on.

Click OK and enter your Private Key Password.

The summary screen will show the progress of the task and will show status complete when it is finished.

Note: This installation option should only be chosen if you have the IBM Endpoint Manager for Remote Control server component installed and running.

Removing the Linux target

You can use the **Uninstall IBM Endpoint Manager for Remote Control Target for Linux** task to remove the target software from a Linux computer which has the target software already installed. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Linux** > in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control target for Linux.
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

- 4. In the Take Action window, on the Target tab, select the required option for determining which targets to remove the IBM Endpoint Manager for Remote Control target from.
- 5. Click OK and enter your Private Key Password.

Note: It should be noted that after the removal of the target there might be some files, which were created as part of the normal execution of the target program, that are not deleted automatically. These files are located in the following directories /opt/ibm and /var/opt/ibm/trc/target.

Deploying the Linux controller

You can use the **Deploy IBM Endpoint Manager for Remote Control Controller for Linux** task to install the controller software onto a Linux computer.

Note: If you are installing the controller on a Red Hat 6.0 64 bit machine you require the following additional libraries, along with all their dependencies, to be installed: libXft.i686 libXmu.i686 libXp.i686 libXtst.i686 . To initiate this task complete the following steps:

- 1. Click **Deployment** > **Linux** in the navigation tree.
- 2. Click Deploy IBM Endpoint Manager for Remote Control Controller for Linux .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

escription	Details	Applicable Computers (4	4) Action	h History (4)		
Descr	iption					
This for L	task wil inux.	l deploy: IBM Endpoir	nt Mana <u>o</u>	er for Rei	note Cont	rol Controller
	11-25-646					
Action	15					

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to deploy the controller on.
- 5. Click OK and enter your Private Key Password.

Removing the Linux controller

You can use the **Uninstall IBM Endpoint Manager for Remote Control Controller for Linux** task to remove the controller software from a Linux computer which has the controller software already installed. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Linux** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control Controller for Linux .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

⁹ Take Actio	n 📝 Edit 🛛 Copy 📄 Export 🗍 Hide Locally Hide Globally 🗎 💥 Remove
escription	Details Applicable Computers (2) Action History (4)
Descr This Cont	iption task will uninstall: IBM Endpoint Manager for Remote trol Controller for Linux.
Action	15
Cline	ick here to uninstall IBM Endpoint Manager for Remote Control

- 4. In the Take Action window, in the Target tab, select the required option for determining which targets to remove the IBM Endpoint Manager for Remote Control controller from.
- 5. Click **OK** and enter your Private Key Password.

Deploying the Linux CLI tools

You can use the **Deploy IBM Endpoint Manager for Remote Control CLI Tools for Linux** task to install the CLI tools onto a Linux computer.

Note:

- 1. You do not need to deploy the CLI tools on any computers that you have deployed the target on as these computers will already have the CLI tools installed along with the target.
- 2. In order to deploy this task you need the URL for a IBM Endpoint Manager for Remote Control server that you have access to.

To initiate this task complete the following steps:

- 1. Click **Deployment** > **Linux** in the navigation tree.
- 2. Click Deploy IBM Endpoint Manager for Remote Control CLI Tools for Linux.
- **3.** In the Task window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. Enter the URL of the IBM Endpoint Manager for Remote Control server and click **OK**
- 5. In the Take Action window on the Target tab, select the required option for determining which targets to deploy the CLI tools on.
- 6. Click OK and enter your Private Key Password.

The summary screen shows the progress of the task and displays status complete when it is finished.

You should now have the following two CLI utilities installed in the /opt/IBM/trc/target directory on the targets that were selected when you ran the deployment task.
wrc Use this tool to start a remote control session with a target.

wrcmdpcr

Use this tool to run a command on a target and see the output from the command on the machine that you issued the command from.

For more details on how to use the command line tools see the IBM Endpoint Manager for Remote Control Controller User's Guide.

Removing the Linux CLI tools

You can use the **Uninstall IBM Endpoint Manager for Remote Control CLI Tools for Linux** task to remove the CLI tools from a Linux computer which has the CLI tools already installed. To initiate this task complete the following steps:

- 1. Click on **Deployment** > **Linux** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control CLI Tools for Linux .
- **3.** In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

escription	Detaile Applicable Computers (0) Action (Cotons (0)	
scription	Details Applicable Computers (0) Action History (2)	
Descr	ription	
-		
Ibis	s task will uninstall: IBM Endpoint Manager for Remote Control CL	I
Tool	s task will uninstall: IBM Endpoint Manager for Remote Control CL ols for Linux.	I
Tool	s task will uninstall: IBM Endpoint Manager for Remote Control CL ols for Linux.	I
Tool	s task will uninstall: IBM Endpoint Manager for Remote Control CL ols for Linux.	I
Action	s task will uninstall: IBM Endpoint Manager for Remote Control CL ols for Linux. ons	I
Action	s task will uninstall: IBM Endpoint Manager for Remote Control CL ols for Linux. Ons Click here to uninstall IBM Endpoint Manager for Remote Control CLI To	I ols for

- 4. In the Take Action window, in the Target tab, select the required option for determining which targets to remove the CLI tools from.
- 5. Click **OK** and enter your Private Key Password.

The summary screen will show the progress of the task and will show status complete when it is finished.

The CLI tools should no longer be present on the selected targets.

Note: It should be noted that after the removal of the CLI tools there might be some files, which were created as part of the normal execution of the CLI tools program, that are not deleted automatically. These files are located in the following directories /etc, /opt/ibm, /var/opt/ibm/trc/cli and /var/opt/ibm/trc/target.

Deploying the Linux gateway support

You can use the **Deploy IBM Endpoint Manager for Remote Control Gateway for Linux** task to install gateway support onto a Linux computer. To initiate this task complete the following steps:

1. Click **Deployment** > **Linux** in the navigation tree.

- 2. Click Deploy IBM Endpoint Manager for Remote Control Gateway for Linux
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. In the Take Action window on the Target tab, select the required option for determining which targets to deploy the gateway support on.
- 5. Click **OK** and enter your Private Key Password.

You should now have gateway support installed on the targets that were selected when you ran the deployment task. The files for this will have been installed to the /opt/IBM/trc/gateway directory on the selected targets.

To make use of the gateway support you will need to setup a gateway configuration for your environment. See the IBM Endpoint Manager for Remote Control Administrator's Guide.

Removing the Linux gateway support

You can use the **Uninstall IBM Endpoint Manager for Remote Control Gateway support for Linux** task to remove the gateway support files from a Linux computer which has these files already installed. To initiate this task complete the following steps:

- 1. Click **Deployment** > **Linux** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control Gateway for Linux .
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

^{>} Take Actio	n 🖉 E	dit Copy 🕞 Export Hide Locally Hide Globally 💥 Remove	
Description	Details	Applicable Computers (0) Action History (4)	
Descr	iption		
This Gate	task wi way foi	ill uninstall: IBM Endpoint Manager for Remote Control r Linux.	
Action	15		
	ick <u>here</u>	to uninstall IBM Endpoint Manager for Remote Control Gateway for	-

- 4. In the Take Action window, in the Target tab, select the required option for determining which targets to remove the gateway support from.
- 5. Click OK and enter your Private Key Password.

The gateway support should no longer be present on the selected targets.

Note: It should be noted that after the removal of the gateway support there might be some files, which were created as part of the normal execution of the gateway support program, that are not deleted automatically. These files are located in /opt/ibm and /var/opt/ibm/trc/gateway.

Deploying Linux broker support

You can use the Deploy IBM Endpoint Manager for Remote Control Broker for Linux task to install broker support on a Linux computer.

To initiate this task complete the following steps:

- 1. Click on **Deployment** > **Linux** in the navigation tree.
- 2. Click Deploy IBM Endpoint Manager for Remote Control Broker for Linux.
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

	on V Edit Copy Export Hide Locally Hide Globally Remove
ption	Details Applicable Computers (4) Action History (2)
Desc	ription
This Bro	task will deploy: IBM Endpoint Manager for Remote Control ker for Linux.
The Ren out req ser	Internet Connection Broker is a component designed to facilitate note Control sessions through the Internet when the targets are side of the enterprise network environment. This component uires that the targets are managed with a Remote Control ver.
A 2412	ns
ACUO	

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to deploy the broker support on.
- 5. Click **OK** and enter your Private Key Password.

The summary screen will show the progress of the task and will show status complete when it is finished. You should now have broker support installed on the targets that were selected when you ran the deployment task. The files for this will have been installed in the /opt/IBM/trc/broker directory on the selected targets. To make use of the broker support you will need to setup a broker configuration for your environment. For more details see the IBM Endpoint Manager for Remote Control Administrator's Guide.

Removing Linux broker support

You can use the Uninstall IBM Endpoint Manager for Remote Control Broker for Linux task to remove broker support from a Linux computer

To initiate this task complete the following steps:

- 1. Click on **Deployment** > **Linux** in the navigation tree.
- 2. Click Uninstall IBM Endpoint Manager for Remote Control Broker for Linux.
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ription	Details Applicable Computers (2) Action History (4)
Descr	iption
This Brok	task will uninstall: IBM Endpoint Manager for Remote Control er for Linux.
Action	15
Cl for Li	ick <u>here</u> to uninstall IBM Endpoint Manager for Remote Control Broker nux.

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to remove the broker support from.
- 5. Click OK and enter your Private Key Password.

The summary screen shows the progress of the task and displays status complete when it is finished. The broker support files is removed from the chosen targets.

Updating IBM Endpoint Manager for Remote Control components

The **Update** node in the IBM Endpoint Manager for Remote Control navigation tree provides two sub-nodes which are operating system specific. These sub-nodes provide the latest levels of the target and controller components. If you have an older version of the IBM Endpoint Manager for Remote Control target and controller components already installed in your environment use the **Update** node to upgrade these components to a newer version. Select the relevant operating system node to view a list of tasks that you can use to upgrade the relevant IBM Endpoint Manager for Remote Control components.



Updating Windows components

The **Windows** sub-node provides the latest levels of IBM Endpoint Manager for Remote Control component software for use in a windows environment. These components contain the latest enhancements and fixes that have been applied to IBM Endpoint Manager for Remote Control.

Updating the Windows target

You can use the windows tasks to update the target software, on a Windows computer. These tasks will install any new enhancements and fixes that have been applied to the chosen version whilst keeping the same target configuration currently installed. For example: choose the version 9.0.0 task to keep your current target configuration and apply any new enhancements or fixes contained in version 9.0.0, to that. To initiate this task complete the following steps:

- 1. Click **Updates** > **Windows** in the navigation tree.
- Select the required windows target update. For example: Updated IBM Endpoint Manager for Remote Control Target for Windows is now available! (Version 9.0.0).
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

Description Version 9.0.0 of the IBM Endpoint Manager for Remote Control Target is now available! The latest version of the IBM Endpoint Manager for Remote Control Target provides several enhancements and fixes. This Fixlet message will upgrade	ption Deta	Is Applicable Computers (0) Action History (0)
Version 9.0.0 of the IBM Endpoint Manager for Remote Control Target is now available! The latest version of the IBM Endpoint Manager for Remote Control Target provides several enhancements and fixes. This Fixlet message will upgrade	Description	
The latest version of the IBM Endpoint Manager for Remote Control Target provides several enhancements and fixes. This Fixlet message will upgrade	Version 9 available	.0.0 of the IBM Endpoint Manager for Remote Control Target is now
all IBM Endpoint Manager for Remote Control Targets on the targeted computers.	The lates provides all IBM Er computer	: version of the IBM Endpoint Manager for Remote Control Target several enhancements and fixes. This Fixlet message will upgrade dpoint Manager for Remote Control Targets on the targeted s.

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the target update on.
- 5. Click **OK** and enter your Private Key Password.

The summary screen shows the progress of the task and displays status complete when it is finished.

The selected targets are upgraded to the version of target software applicable to the chosen update.

Updating the Windows controller

Use the windows tasks to update the controller software, on a Windows computer. These tasks will upgrade your currently installed controller to the version that the task applies to. For example: choose the version 9.0.0 task will apply any new enhancements or fixes, contained in the version 9.02.0 controller to your current controller. To initiate this task complete the following steps:

- 1. Click **Updates** > **Windows** in the navigation tree.
- 2. Select the required windows controller update. For example: **Updated IBM Endpoint Manager for Remote Control Controller for Windows is now available! (Version 9.0.0)**.
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ription	Details Applicable Computers (0) Action History (0)
Desci	ription
The	latest version of the IBM Endpoint Manager for Remote Control Controller
prov IBM com	indes everal enhancements and fixes. This Fixlet message will upgrade all Endpoint Manager for Remote Control Controllers on the targeted iputers.
prov IBM com	ns

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the controller update on.
- 5. Click OK and enter your Private Key Password.

The controller software on the selected targets is upgraded to the version of the chosen update.

Updating the Windows command line tools

Use the windows tasks to update the cli tools, on a Windows computer. These tasks will install any new enhancements and fixes that have been applied to the chosen version whilst keeping the same cli tools configuration currently installed. For example: choose the version 9.0.0 task to keep your current cli tools configuration and apply any new enhancements or fixes contained in version 9.0.0, to that. To initiate this task complete the following steps:

- 1. Click **Updates** > **Windows** in the navigation tree.
- 2. Select the required windows cli update. For example: **Updated IBM Endpoint** Manager for Remote Control CLI tools for Windows is now available! (Version 9.0.0).
- **3.** In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ription	Details	Applicable	Computers	(0) Acti	on History (1)	
Descri	ption						
Versi CLI T	on 9.0.0 ools are) of the IB now ava	M Endpoii ilable!	nt Mana	ger for Rer	note Co	ntrol
The I Cont This I Remo	atest ve rol CLI 1 Fixlet m ote Conf	rsion of th ools prov essage wi rrol CLI To	he IBM En ides seve Il upgrade ols on the	dpoint N ral enha e all IBM e targeto	lanager fo ncements Endpoint I ed compute	r Remot and fixe Manage ers.	e es. r for
Action	s						
• Clie	:k <u>here</u> t	o update IE	3M Endpoi	nt Mana	ger for Rem	ote Cont	rol CLI

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the cli update on.
- 5. Click OK and enter your Private Key Password.

The cli tools on the selected targets are upgraded to the version of the chosen update.

Updating the Windows gateway support

Use the windows tasks to update the gateway support files, on a Windows computer. These tasks install any new enhancements and fixes that have been applied to the chosen version whilst keeping the same gateway configuration currently installed. For example: choose the version 9.0.0 task to keep your current gateway

configuration and apply any new enhancements or fixes contained in version 9.0.0, to that. To initiate this task complete the following steps:

- 1. Click **Updates** > **Windows** in the navigation tree.
- 2. Select the required windows gateway update. For example: **Updated IBM Endpoint Manager for Remote Control Gateway for Windows is now available! (Version 9.0.0)**.
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ription	Details Applicable Computers (0) Action History (0)
Descr	iption
The prov all IE com	lable! labest version of the IBM Endpoint Manager for Remote Control Gateway is now ides several enhancements and fixes. This Fixlet message will upgrade M Endpoint Manager for Remote Control Gateways on the targeted outers.
Action	15

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the gateway update on.
- 5. Click **OK** and enter your Private Key Password.

The gateway support on the selected targets is upgraded to the version of the chosen update.

Updating the Windows broker support

You can use the windows tasks to update the broker software, on a Windows computer. These tasks will upgrade your currently installed broker support files to the version that the task applies to. For example: choose the version 9.0.0 task to apply any new enhancements or fixes, contained in the version 9.0.0 broker to your current broker files. To initiate this task complete the following steps:

- 1. Click **Updates** > **Windows** in the navigation tree.
- Select the required windows broker update. For example: Updated IBM Endpoint Manager for Remote Control Broker for Windows is now available! (Version 9.0.0).
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ption	Details 4	pplicable Comput	ers (0)	Action H	story (1)		
)escri	ption						
Versi Brok	on 9.0.0 er is now	of the IBM Endp available!	oint Ma	anager f	or Remo	te Contr	ol
The l Brok mess Cont	atest ver er provid age will rol Broke	sion of the IBM as several enha upgrade all IBM rs on the target	Endpoi ncemer Endpoi ted com	nt Mana nts and nt Mana puters.	ger for I fixes. Th iger for	Remote (is Fixlet Remote	Control
Action	5						
• Cli	ck <u>here</u> to	update IBM End	point M	anager fo	r Remot	e Broker f	for

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the broker update on.
- 5. Click OK and enter your Private Key Password.

The broker software on the selected targets is upgraded to the version of the chosen update.

Updating Linux components

The Linux sub-node provides the latest levels of IBM Endpoint Manager for Remote Control component software for use in a Linux environment. These components contain the latest enhancements and fixes that have been applied to IBM Endpoint Manager for Remote Control.

Updating the Linux target

You can use the linux tasks to update the target software, on a Linux computer. These tasks will install any new enhancements and fixes that have been applied to the chosen version whilst keeping the same target configuration currently installed. For example: choosing the version 9.0.0 task will keep your current target configuration and apply any new enhancements or fixes, contained in version 9.0.0, to that. To initiate this task complete the following steps:

- 1. Click **Updates** > **Linux** in the navigation tree.
- Select the required linux target update. For example: Updated IBM Endpoint Manager for Remote Control Target for Linux is now available! (Version 9.0.0).
- **3.** In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

cription	Details Applicable Computers (0) Action History (1)
Desc	ription
Ver	sion 9.0.0 of the IBM Endpoint Manager for Remote Control Target is now ailable!
The	e latest version of the IBM Endpoint Manager for Remote Control Target
pro all i	IBM Endpoint Manager for Remote Control Targets on the targeted computers.
all a	IBM Endpoint Manager for Remote Control Targets on the targeted computers.

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the target update on.
- 5. Click OK and enter your Private Key Password.

Updating the Linux controller

You can use the linux tasks to update the controller software, on a Linux computer. These tasks upgrade your currently installed controller to the version that the task applies to. For example: choosing the version 9.0.0 task will apply any new enhancements or fixes, contained in the version 9.0.0 controller to your current controller. To initiate this task complete the following steps:

- 1. Click **Updates** > **Linux** in the navigation tree.
- Select the required linux controller update. For example: Updated IBM Endpoint Manager for Remote Control Controller for Linux is now available! (Version 9.0.0).
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ription	Details Applicable Computers (0) Action History (2)
Desci	iption
ava	
The prov all I com	latest version of the IBM Endpoint Manager for Remote Control Controller vides several enhancements and fixes. This Fixlet message will upgrade BM Endpoint Manager for Remote Control Controllers on the targeted puters.
The prov all II com	latest version of the IBM Endpoint Manager for Remote Control Controller vides several enhancements and fixes. This Fixlet message will upgrade BM Endpoint Manager for Remote Control Controllers on the targeted puters.

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the controller update on.
- 5. Click **OK** and enter your Private Key Password.

The summary screen shows the progress of the task and displays status complete when it is finished. The controller software on the selected targets is upgraded to the version of the chosen update.

Updating the Linux command line tools

Use the Linux tasks to update the cli tools, on a Linux computer. These tasks will install any new enhancements and fixes that have been applied to the chosen version whilst keeping the same cli tools configuration currently installed. For example: choose the version 9.0.0 task to keep your current cli tools configuration and apply any new enhancements or fixes contained in version 9.0.0, to that. To initiate this task complete the following steps:

- 1. Click **Updates** > **Linux** in the navigation tree.
- 2. Select the required Linux cli update. For example: Updated IBM Endpoint Manager for Remote Control CLI tools for Linux is now available! (Version 9.0.0).
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

escription	Details	Applicable Computers (0)	Action History (1)
Descr	iption		
Vers Tool	ion 9.0. s are no	0 of the IBM Endpoint I w available!	Manager for Remote Control CLI
The CLI mes CLI	latest ve Tools pre sage wil Tools on	ersion of the IBM Endp ovides several enhanc II upgrade all IBM Endp I the targeted compute	oint Manager for Remote Control ements and fixes. This Fixlet oint Manager for Remote Control ers.
Action	15		
Cl for Li	ick <u>here</u> t	o update IBM Endpoint N	Nanager for Remote Control CLI Tools

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the cli update on.
- 5. Click OK and enter your Private Key Password.

The cli tools on the selected targets are upgraded to the version of the chosen update.

Updating the Linux gateway support

Use the Linux tasks to update the gateway support files, on a Linux computer. These tasks install any new enhancements and fixes that have been applied to the chosen version whilst keeping the same gateway configuration currently installed. For example: choose the version 9.0.0 task to keep your current gateway

configuration and apply any new enhancements or fixes contained in version 9.0.0, to that. To initiate this task complete the following steps:

- 1. Click **Updates** > **Linux** in the navigation tree.
- 2. Select the required Linux gateway update. For example: Updated IBM Endpoint Manager for Remote Control Gateway for Linux is now available! (Version 9.0.0).
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ription	Details Applicable Computers (2) Action History (2)
Descri	ption
Vers Gate	on 9.0.0 of the IBM Endpoint Manager for Remote Control way is now available!
The Gate mess Cont	atest version of the IBM Endpoint Manager for Remote Control way provides several enhancements and fixes. This Fixlet sage will upgrade all IBM Endpoint Manager for Remote rol Gateways on the targeted computers.
Action	S
Cli	ck <u>here</u> to update IBM Endpoint Manager for Remote Control Gatewa

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the gateway update on.
- 5. Click OK and enter your Private Key Password.

The gateway support on the selected targets is upgraded to the version of the chosen update.

Updating the Linux broker support

You can use the Linux tasks to update the broker software, on a Linux computer. These tasks will upgrade your currently installed broker support files to the version that the task applies to. For example: choose the version 9.0.0 task to apply any new enhancements or fixes, contained in the version 9.0.0 broker to your current broker files. To initiate this task complete the following steps:

- 1. Click **Updates** > **Linux** in the navigation tree.
- 2. Select the required Linux broker update. For example: Updated IBM Endpoint Manager for Remote Control Broker for Linux is now available! (Version 9.0.0).
- **3**. In the Task window, review the description and follow the instructions in the Actions box to initiate the task.

ption	Details Applicable Comp	uters (2)	Action History (2)	
			-		
Descri	otion				
Vers Brok	on 9.0.0 of the IBM Ener is now available! atest version of the IB	dpoint Ma M Endpoir	nager for Rei It Manager fo	note Control r Remote Contr	ol
Cont	age will upgrade all IB rol Brokers on the targ	M Endpoir eted com	nt Manager fo Duters.	or Remote	
Actior	5				
• Cli	k here to update IBM Er	ndpoint Ma	nager for Rem	ote Control Broke	er fo

- 4. In the Take Action window on the Target tab, select the required option for determining which targets to install the broker update on.
- 5. Click OK and enter your Private Key Password.

The broker software on the selected targets is upgraded to the version of the chosen update.

Starting a remote control session

The IBM Endpoint Manager for Remote Control controller and target components can be used to establish remote connections between each other to monitor or control the target system. There are two modes of establishing a remote control session: a peer to peer session made directly between the target and controller and a managed session initiated from the IBM Endpoint Manager for Remote Control server, as explained in Chapter 2, "Definitions," on page 3.

For details of how to end a remote control session see the IBM Endpoint Manager for Remote Control Controller User's Guide.

Starting a peer to peer session

There are two ways to start a peer to peer remote control session between a controller and a target.

- · From the IBM Endpoint Manager console
- By using the controller component

Starting a peer to peer session from the IBM Endpoint Manager console

The IBM Endpoint Manager console provides a method for starting a peer to peer session directly from the console in the form of a menu option which appears when you right-click on the target machine that you want to start a session with.

Note:

- 1. If you want to be able to start a remote control session with targets from the IBM Endpoint Manager console you should deploy the controller to the same machine as the console is installed on. However it should be noted that when the controller is deployed it is only the current user who is logged on to the machine, that you are deploying to, that will have the rights to see the menu item to start a session, it will not be visible to other users. For more information, see Appendix A, "Frequently Asked Questions," on page 79.
- 2. The **Remote Control Installation and Security Options** Analysis needs to be active for the selected computer and reporting that the IBM Endpoint Manager for Remote Control target is active, for the menu item to be enabled.

To establish a peer to peer session complete the following steps:

- 1. From the list of target computers **right-click** the target you want to start a remote control session with.
- 2. Select IBM Endpoint Manager for Remote Control

Note:

- a. This action can be carried out on any section of the console in which the list of computers is displayed.
- b. If you have an older version of the controller installed on the target system you might see Tivoli[®] Remote Control as the menu item instead.
- **3**. The Open connection window is displayed with the IP address or URL of the target that you want to connect to.

Open Con	nection		×
Address	IBM-1A58F31BB52		~
Port	888	Use 128 bit encryption	
Use	Proxy 💿 HTTP	Socksv4 Socksv5	
Serve	er 🗌		
Port			
Pr	oxy requires authent	tication	
Us	ername		
Pa	assword		
Activ	/e Chat Only	Monitor Guidance Cancel)

4. Select **Use proxy** if you will be using a proxy, select the required protocol and enter the relevant information.

Server the hostname or IP address of the proxy server

Port the port required for the proxy server

Proxy requires authentication

Select this option to authenticate with the proxy server. Provide the username and password that is required for authentication.

 Select the session type required. For more information on the session types that can be established, see the IBM Endpoint Manager for Remote Control Controller User's Guide.

Note:

- a. If a login window is displayed, enter a valid windows id and password to continue.
- b. A user acceptance window might be displayed on the target, depending on the policies set on the target. The target user can accept or reject the session.

When the session is accepted and started, the policies set locally on the target determine what actions can be carried out during the session. For more information on peer to peer sessions and the functions available in the controller UI, see the IBM Endpoint Manager for Remote Control Controller User's Guide.

Starting a peer to peer session using the controller

You can start a peer to peer session from any computers that you have deployed the controller component on. To start a peer to peer session using the controller component complete the following steps:

1. Start the controller

Windows

- a. Click Start > All Programs
- b. Click IBM Endpoint Manager for Remote Control > Controller
- Linux To start the controller locate the IBM Endpoint Manager for Remote Control controller application from the operating system application interface or issue the following command
 - java jar /opt/ibm/trc/controller/TRCConsole.jar
- 2. Follow from step 3 on page 46 in "Starting a peer to peer session from the IBM Endpoint Manager console" on page 46 to start the session.

When the session is accepted and started, the policies that are set locally on the target determine what actions can be carried out during the session. For more information on peer to peer sessions and the functions available in the controller UI, see the IBM Endpoint Manager for Remote Control Controller User's Guide.

Starting a server initiated remote control session

To start a remote control session initiated from the IBM Endpoint Manager for Remote Control server UI you require the server component to be installed and running. For details of creating and running server installation configurations tasks, see "Creating IBM Endpoint Manager for Remote Control server installation tasks" on page 49.

Note: The server can also be installed using the installation files. For more details see the IBM Endpoint Manager for Remote Control Installation Guide

After the server component is installed use the IBM Endpoint Manager for Remote Control Controller User's Guide for details of how to access and log on to the server UI. Remote control sessions initiated from the IBM Endpoint Manager for Remote Control server require that permissions links have been set up, between the groups that the controller user and the targets are members of. These permissions links determine what policies are effective for the session. For creating user and target groups, creating permissions links and how policies are resolved for a remote control session, see the IBM Endpoint Manager for Remote Control Administrator's Guide.

When you have installed the server component and created the relevant groups and permissions links you can start a remote control session using the IBM Endpoint Manager for Remote Control server UI. For more details, see the IBM Endpoint Manager for Remote Control Controller User's Guide.

Responding to warnings

During the discovery process if there are any issues found which interfere with the normal operation of the IBM Endpoint Manager for Remote Control components, a **Warnings** node is displayed in the IBM Endpoint Manager for Remote Control navigation tree.

Note: If there are no issues found during the discovery process this node does not appear in the navigation panel.



This node displays relevant fixlets that you can use to take action and resolve the issues on any applicable computers. When the IBM Endpoint Manager for Remote Control target software is installed, a default firewall rule is created to open the inbound IBM Endpoint Manager for Remote Control port. If the target operating system is blocking this port you will see a set of fixlets that you can use to add a rule to enable inbound TCP connections for IBM Endpoint Manager for Remote Control.

Note: The SUSE firewall fixlet is not relevant when the firewall is started manually it is only relevant when the firewall is in automatic mode .

Managing target and server configurations

IBM Endpoint Manager for Remote Control provides two wizards that you can use to create tasks to install IBM Endpoint Manager for Remote Control server or target configurations. These tasks can be performed on all, or specific, servers or targets.

Creating IBM Endpoint Manager for Remote Control server installation tasks

With the **IBM Endpoint Manager for Remote Control Server Installer Wizard** you can create an installation task that can be used on Windows[®] and Linux[®] (Redhat and SUSE) to install a fully functional self contained IBM Endpoint Manager for Remote Control server with either of the following component setup.

- IBM Endpoint Manager for Remote Control server with WebSphere Application Server 8.5 Liberty Profile and a Derby database.
- IBM Endpoint Manager for Remote Control server with WebSphere Application Server 8.5 Liberty Profile and IBM DB2 8.x, 9.x or 10.1 Workgroup(WSE) and Enterprise Edition(ESE), Oracle 9i / 10g / 11g or MSSQL 2000/2003/2008/2012.

Note:

- 1. If you choose the DB2, MS SQL or Oracle database options you should have already installed the database and created a database instance before running the server installation task.
- 2. If you are using DB2 9.7 GA version you should upgrade to DB2 9.7 fixpack 1 due to a DB2 issue where NULL values are returned in generated key values.

To access the **IBM Endpoint Manager for Remote Control Server Installer Wizard** complete the following steps:

 In the IBM Endpoint Manager for Remote Control navigation tree select Manage Configurations > IBM Endpoint Manager for Remote Control Server Installer Wizard.

Systems Lifecycle	~
🚮 Systems Lifecycle Domain	
a 🔄 Remote Control Configuration	
a 📹 IBM Endpoint Manager for Remote Control	
IBM Endpoint Manager for Remote Control Overview	
🚯 Warnings (2)	
Deployment (20)	
Windows (10)	
Linux (10)	
Update (10)	
🚯 Windows (5)	
🖺 Linux (5)	
Manage Configurations (1)	
IBM Endpoint Manager for Remote Control Server Installer Wizard	
IBM Endpoint Manager for Remote Control Target Wizard	
Remote Control Server Installer Tasks (1)	
Remote Control Settings Tasks (0)	
Analyses (5)	
All Systems Lifecycle	
Systems Lifecycle	

2. Set your configuration values.

Load Settings from Existing Task

The wizard initially displays server configuration default values which you can change to your own requirements. If you have already created and saved server configurations you can chose to display the saved values by clicking **Load Settings from Existing Task**.

- a. Click Load Settings from Existing Task.
- b. On the Wizard Fixlets screen select the required task.

name	description	sourceDate
RC Server Installer Task - Lini		Tue, 30 Aug 2011
RC Server Installer Task - Wir		Wed, 31 Aug 2011

c. Click Load Wizard with Fixlet. The configuration values will be loaded into the wizard.

Reset to default values

You can use this feature to clear any selections made and return the values in the wizard to the default configuration values.

Create a configuration task

Select the database and set your required values

- Derby installation See "Creating a default server configuration"
- DB2 See "Creating a DB2 server configuration" on page 52
- MSSQL See "Creating an MS SQL server configuration" on page 54
- Oracle See "Creating an Oracle server configuration" on page 55
- **3.** When you have set your required values, save the installation task. See step 5 on page 52

Creating a default server configuration

A default server configuration installs and use the embedded Derby database which is included as part of the IBM Endpoint Manager for Remote Control installation. The database is installed locally. To create a default installation task complete the following steps:

- 1. Select the required operating system.
- 2. Enter the installation directory for the IBM Endpoint Manager for Remote Control server to be installed to or accept the default that is given.

Note: There is a limitation that Websphere Application Server cannot be installed in a directory whose name contains Non English characters. This installation will install an embedded version of Websphere Application Server therefore you should not choose a destination for the installation files which contains Non English characters.

3. Select Derby and enter the relevant database parameter values.

Name of the Database to use

Specify the name for the database that will be used with IBM Endpoint Manager for Remote Control server or accept the default that is given.

4. Enter the required server installation parameter values

HTTPS as Default for Target URL

Select whether the server will tell the target software to communicate via http or https. If selected, https will be used.

Note: If using https you must use a fully qualified domain name in the **Address of the Websphere server** field.

Address of the Websphere server

The fully qualified name for the IBM Endpoint Manager for Remote Control server. For example trcserver.example.com

Note: Make sure that you enter the fully qualified name here as this is used for creating the URL in the trc.properties file that is passed to the target when it contacts the server for the first time. If the fully qualified name is incorrect, the target might not be able to contact the server successfully when it is next due to contact it.

Web path of URL

Specify the web path for the server URL, http:// trcserver.example.com/*webpath*. For example, trc

HTTP port

Specify a port for the server. Default is 80.

HTTPS port

Specify a port if using SSL. Default is 443.

Administrator email

Specify an administrator email address. For example admin@company.com

Note: To use the email function within the IBM Endpoint Manager for Remote Control server you must have a mail server installed. For more details on enabling email, see the IBM Endpoint Manager for Remote Control Installation Guide

FIPS Select this to enable FIPS compliancy on the server. For more details on enabling FIPS compliance, see the IBM Endpoint Manager for Remote Control Installation Guide

Adjust some advanced web parameters

Select this option to set additional port values.

- 5. Save the configuration by completing the following steps :
 - a. Click Create Server Installation Task
 - b. Fill in the required information for your task and click OK.
 - c. Enter your private key password and click OK.

Your task is displayed in the list panel of the Remote Control Server Installer Tasks sub- node.

Systems Lifecycle Domain Name Remote Control Configuration Remote Control Configuration IBM Endpoint Manager for Remote Control Overview Remote Control Server Installer Task - Vindows (SQL SERVER 2008 2) Warnings (1) Deployment (20) Windows (10) Image: Control Server Installer Task - Test Task Windows (10) Image: Control Server Installer Task - Test Task Windows (10) Image: Control Server Installer Task - Test Task Windows (10) Image: Control Server Installer Task - Test Task Windows (10) Image: Control Server Installer Task - Test Task Windows (10) Image: Control Server Installer Task - Test Task Windows (10) Image: Control Server Installer Task - Test Task Windows (10) Image: Control Server Installer Task - Test Task Image: Control Server Installer Task (10) Image: Control Server Installer Task (10) Image: Control Server Installer Tasks (2) Description Remote Control Server Installer Tasks (0) This task will install IBM Endpoint Manager for Remote Control Server. Image: Control Server Installer Tasks (0) Image: Control Server Installer Tasks (0) Image: Control Server Installer Tasks (0) Image: Control Server Installer Task (10) Image: Control Server Installer T	Systems Lifecycle Domain	Systems Lifecycle	Manage Configurations Search Manage Configurations P
Actions	Click here to deploy this action	Systems Lifecycle Commin Systems Lifecycle Domain Systems Lifecycle Domain BM Endpoint Manager for Remote Control BM Endpoint Manager for Remote Control Overview Windows (10) Linux (10) Windows (20) Minimum Linux (10) Windows (5) Linux (10) Windows (5) Linux (5) Manage Configurations (2) Manage Configurations (2) Manage Configurations (2) Manage Configurations (2) Manage Configurations (2) Manage Configurations (2) Minimum Lifecycle All Systems Lifecycle	Manage Configurations Search Manage Configurations Name Remote Control Server Installer Task - Windows (SQL SERVER 2008 2) Remote Control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Server Installer Task - Test Task Image: Task control Task control Server Installer Task - Test Task Image: Task control Task control Server Installer Task - Test Task Image: Task control Task control Task - Test Task Image: Task Task control Task control Task contresk <tr< td=""></tr<>

Creating a DB2 server configuration

You can create a server installation configuration which will use a DB2 database. This database must be installed, either locally or remotely and a database instance created prior to installing the IBM Endpoint Manager for Remote Control server. To create a DB2 server configuration task complete the following steps:-

- 1. Select the required operating system.
- **2.** Enter the installation directory for the IBM Endpoint Manager for Remote Control server to be installed to or accept the default that is given.
- 3. Select the relevant DB2 version and enter the relevant database parameters.

Database server address

The IP address or hostname of your database server.

Note: 127.0.0.1 can be used when DB2 is installed locally. If you have installed DB2 on a remote system, type the IP address of the remote system.

Port on which to connect to the database

Port on which DB2 is installed

Note:

- a. DB2 Windows[®] default port is 50000, Linux[®] is 50001
- b. A remote DB2 installation is limited to type 4 connections. A local installation can use type 2 or 4. For type 2 connections set the port value to 0.

Name of the Database to use

Specify the name for the database that will be used with the IBM Endpoint Manager for Remote Control server or accept the default that is given.

Database Administrator Userid

Specify the Administrator userid used for logging on to the database. The userid needs to have admin access to the database.

Database Administrator Password

Specify the Administrator password for connecting to the database.

Path to the JDBC drivers

Specify the path to the DB2 jar files, db2jcc.jar and db2jcc_license.jar

Path to db2profile script

Specify the path to the db2profile for the DB2 instance. For example : /home/db2inst1/sqllib/db2profile

Note: This field is only available when installing on Linux and if you are selecting to create the database.

Path to the DB2 libraries

Specify the path to the DB2 libraries. For example : /home/db2inst1/sqllib/lib32

Note: This field is only available when installing on Linux and if you are selecting to create the database.

If Local, create the database

If DB2 is installed locally (127.0.0.1) you can select to have the server installation create a blank database; you can also select to drop an existing local database and create a new database.

Note: Do not select create database if you are using a remote database

If Local, drop an existing database

If DB2 is installed locally (127.0.0.1) you can select to drop the database and create a new one.

Note: Do not select drop the database if you are using a remote database

New database location (Drive name) / (Path name)

Specify the path where the database can be installed. If the installation is local and you selected to create the database the Admin user

specified above must have appropriate authority to do so. When using DB2 in Windows the **db2admin** user, and in Linux, a member of **db2grp1**.

Note:

Linux specify a directory which the admin User ID has read and write permissions for.

Windows

specify a drive letter.

- 4. Enter the required server installation parameters as in step 4 on page 51
- 5. Save your server installation task by following the steps in step 5 on page 52

Creating an MS SQL server configuration

You can create a server installation configuration to use an MS SQL database. This database must be installed, either locally or remotely and a database instance created prior to installing the IBM Endpoint Manager for Remote Control server. To create an MS SQL server configuration task complete the following steps:

- 1. Select the required operating system.
- 2. Enter the installation directory for the IBM Endpoint Manager for Remote Control server to be installed to or accept the default that is given.
- 3. Select the relevant MS SQL version and enter the relevant database parameters.

Database server address

The IP address or hostname of your database server.

Note: 127.0.0.1 can be used when MS SQL is installed locally on Windows only.

Port on which to connect to the database

Port on which MS SQL is installed.

Name of the Database to use

Specify the name for the database to be used with the IBM Endpoint Manager for Remote Control server or accept the default that is given.

Database Administrator Userid

Specify the Administrator user ID used for logging on to the database. The user ID needs to have admin access to the database.

Database Administrator Password

Specify the Administrator password for connecting to the database.

Path to the JDBC drivers

Specify the path to the MS JDBC java files. The sqljdbc4.jar file is recommended. The following version of driver can be downloaded from Microsoft. Microsoft JDBC Driver 4.0 for SQL Server - sqljdbc_4.0.2206.100_enu.exe.

If Local, create the database

If MS SQL is installed locally you can select to have the server installation to create a blank database, you can also select to drop an existing local database and create a new database. Do not select create database if you are using a remote database

If Local, drop an existing database

If MS SQL is installed locally you can select to drop the database and create a new one. Do not select drop the database if you are using a remote database.

New database location (existing directory required)

Specify the database installation path. If the instalation is local and you selected to create the database the Admin user specified above must have appropriate authority to do so.

Linux Specify a directory that the admin User ID has read and write permissions for.

Windows

Specify an existing directory.

- 4. Enter the required server installation parameters as in step 4 on page 51
- 5. Save your server installation task by following the steps in step 5 on page 52

Creating an Oracle server configuration

You can create a server installation configuration to use an Oracle database. This database must be installed, either locally or remotely and a database instance created prior to installing the IBM Endpoint Manager for Remote Control server. To create an Oracle server configuration task complete the following steps:

- 1. Select the required operating system.
- 2. Enter the installation directory for the IBM Endpoint Manager for Remote Control server to be installed to or accept the default that is given.
- 3. Select the relevant Oracle version and enter the relevant database parameters.

Database server address

The IP address or hostname of your database server. 127.0.0.1 can be used when Oracle is installed locally. If you have installed Oracle on a remote system, type in the IP address of the remote system.

Port on which to connect to the database

Port on which Oracle is installed.

Name of the Database to use

Specify a name for the database. This is the SID name on the server, not in **tnsnames.ora**. For example, TRCDB.

Database Administrator Userid

Specify the Administrator userid used for logging on to the database. The userid needs to have admin access to the database. For an Oracle installation a user called **asset** needs to exist.

Database Administrator Password

Specify the Administrator password for connecting to the database.

Path to the JDBC drivers

Specify the path to the oracle java JDBC library. This can be obtained from the Oracle server installation or downloaded from the Oracle website. For example c:\oracle\ora92\jdbc\lib\ojdbc14.jar

- 4. Enter the required server installation parameters as in step 4 on page 51
- 5. Save your server installation task by following the steps in step 5 on page 52

Creating IBM Endpoint Manager for Remote Control target configuration tasks

Use the IBM Endpoint Manager for Remote Control Target Wizard to create a set of target configuration parameters. The parameters can be applied to all or selected targets which have the IBM Endpoint Manager for Remote Control target software already installed, by running a task. The configurations determine what types of session the targets can take part in and the actions can be carried out by the controller user during a remote control session. For more details about the options, see the IBM Endpoint Manager for Remote Control Installation Guide.

To create a configuration task, complete the following steps:

Note: The configuration values set here are only in effect when a peer to peer session is requested with a target. If a remote control session is initiated from the IBM Endpoint Manager for Remote Control server, the session policies are passed to the target from the server.

In the IBM Endpoint Manager for Remote Control navigation tree select Manage Configurations > IBM Endpoint Manager for Remote Control Target Wizard.

Systems Lifecycle	«
📊 Systems Lifecycle Domain	
Remote Control Configuration	
🔺 📹 IBM Endpoint Manager for Remote Control	
IBM Endpoint Manager for Remote Control Overview	
Warnings (1)	
Deployment (20)	
Windows (10)	
🔂 Linux (10)	
🔺 🛅 Update (10)	
Windows (5)	
🖺 Linux (5)	
Manage Configurations (2)	
🧚 IBM Endpoint Manager for Remote Control Server Installer Wizard	
IBM Endpoint Manager for Remote Control Target Wizard	
🜇 Remote Control Server Installer Tasks (2)	
🜇 Remote Control Settings Tasks (0)	
🚯 Analyses (5)	
All Systems Lifecycle	
Systems Lifecycle	

- 1. Select the relevant operating system.
- 2. Set your configuration values.

Load settings from an existing task

Use this feature to load previously created configuration settings.

- a. Click Load settings from an existing task.
- b. On the Wizard Fixlets screen, select the task.

Settings Task - Linux 220: Tue, 30 Nov 2010 Settings Task - Linux Tue, 30 Nov 2010 Settings Task - Linux 104: Wed, 01 Dec 2010 Settings Task - Linux 112(Wed, 01 Dec 2010 Settings Task - Linux 20: Med, 01 Dec 2010	Name	Description	Source Date
Settings Task - Linux Tue, 30 Nov 2010 Settings Task - Linux 104* Wed, 01 Dec 2010 Settings Task - Linux 112(Wed, 01 Dec 2010 Settings Task - Wed, 00 Dec 2010 Settings Task - Linux 112(Settings Task - Linux 220:		Tue, 30 Nov 2010
Settings Task - Linux 104: Wed, 01 Dec 2010 Settings Task - Linux 112(Wed, 01 Dec 2010 Settings Task - Window Y	Settings Task - Linux		Tue, 30 Nov 2010
Settings Task - Linux 112(Wed, 01 Dec 2010	C Settings Task - Linux 104:		Wed, 01 Dec 2010
Settings Task - Windows V	C Settings Task - Linux 1120		Wed, 01 Dec 2010
Setungs Task - Windows A Mon, 06 Dec 2010	RC Settings Task - Windows X		Mon, 06 Dec 2010
Settings Task - Windows 2 Mon, 06 Dec 2010	RC Settings Task - Windows 2		Mon, 06 Dec 2010



Click **Load Wizard with Fixlet**. The configuration values are loaded into the wizard.

Reset to default values

Use this feature to clear any selections that are made and return the values in the wizard to the default configuration values.

Selecting configuration values

The wizard is loaded with default configuration values that you can change to your own requirements by selecting or clearing the relevant options.

Installation Options.

Installation option	Target property	Default Value	Description
Server URL	ServerURL	blank	If you want the target to register with the server and take part in remote control sessions initiated from the server, provide the IBM Endpoint Manager for Remote Control server url. In the format: http://servername/trc where servername is the fully qualified name of theIBM Endpoint Manager for Remote Control server. For example: http://trcserver.example.com/trc Note: If you provide a server url and want the targets that this task is relevant for to take part only in remote control sessions initiated from the server, select never for Allow peer to peer mode.
Proxy URL	ProxyURL	blank	Host name or IP address for a proxy server, if you are using one.
Broker List	BrokerList	blank	The list of host names or IP addresses of the brokers and their ports, that you want the target to connect to. In the format hostname1:port,hostname2:port,hostname3:port.

Table 1. Installation option descriptions.

Table 1.	Installation	option	descriptions.	(continued)
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Tursted certificates for Broker connectionsImage: Select this option to configure the truststeen that is used for following steps.Select this option to configure the truststeen the select is option the configuration is applied the BEGIN Control database.Register target in groupGroup Labelblank select the Sereen Tele segret group nome that the target vill be made a member of when the configuration is applied. Is ont assigned to the traget select is not already registered with the server. If the target is and and arget for Kennote Control database.Remote Control port modePortToListen888Specify the TCP port that the target listens on. Used to enable peer to peer mode.Allow peer to peer modeAllow 'P2PNeverUsed to enable peer to peer mode.Allow peer to peer modeNever specify the TCP op peer session can be established between a control sessions initiated from the server. If a provided, the targets can take part in both peer to peer session can be established between a control sessions initiated from the server is a down or unmachable.FIPS complianceTIPS complianceNote specify the TCP to peer session can be established between a control session and be settlishing between a control	Installation option	Target property	Default Value	Description
Register target in group FUSCompliance Fuscessibility Accessibility Ac	Trusted certificates for Broker connections		n/a	Select this option to configure the truststore that is used for verifying broker certificates. To add a certificate, complete the following steps.
Register target in group GroupLabel blank Furter a target group name that the target will be made a member of when the configuration is applied. The arget group must exist in the IBM Endpoint Manager for Remote Control database. Note: The GroupLabel property can be used only if the target is not already registered with the server. If the target is so already registered with the server must be set to true for the GroupLabel property value to be applied. Remote Control port PortToListen 888 Specify th TCP port that the target listers on. Allow per to peer mode AllowP2P Never Used to enable peer to peer mode. Never Allow targets can take part only in remote control sessions initiated from the server. Allow targets can take part only in remote control sessions initiated from the server. Never Allow peer to peer mode Peer to peer session can be established between a controller user and this target. A server urit is provided, the targets can take part in both paer to controll sessions initiated from the server. FIPS compliance FIPSCompliance not selected Select this option is selected and a server urit is provided, the target is similated from the server. FIPS compliance FIPSCompliance not selected Select the controller soft his target. FIPS compliance FIPSCompliance not selected Select the controller soft his target. FIPS compliance <td< td=""><td></td><td></td><td></td><td> Open the certificate file in a text editor. Select the certificate and copy it to the clipboard. Note: You must select everything and include the BEGIN CERTIFICATE and END CERTIFICATE lines. </td></td<>				 Open the certificate file in a text editor. Select the certificate and copy it to the clipboard. Note: You must select everything and include the BEGIN CERTIFICATE and END CERTIFICATE lines.
Remote Control portPortToListenS88Specify the TCP port that the target listens on.Allow peer to peer modeAllowP2PNeverVised to enable peer to peer session cannot be established between a controller and this target. If a ServerURL is provided, the targets can take part only in remote control sessions initiated from the server.Only if server is unreachable.A peer to peer session can be established between a controller user and this target only when the IBM Endpoint Manager for Remote Control server is down or unreachable.FIPS complianceFIPSCompliancenot selectedFIPS complianceFIPSComplianceselected selectedFIPS compliancerot selectedselected selectedFIPS compliancerot selectedselected selectedFIPS compliancerot selectedselected selectedFIPS compliancerot selectedselected selectedFIPS compliancerot selectedselected selectedFIPS compliancerot selectedselected selectedFIPS compliancerot selectedselected selectedFIPS compliancerot selectedselected supported in FIPS compliance on the controller selected supported in FIPS compliance on the	Register target in group	GroupLabel	blank	 Click Save. Enter a target group name that the target will be made a member of when the configuration is applied. The arget group must exist in the IBM Endpoint Manager for Remote Control database. Note: The GroupLabel property can be used only if the target is not already registered with the server. If the target is already registered, it is not assigned to the target group. The allow.target.group.override property in the trc.properties file on the server must be set to true for the GroupLabel property value to be applied.
Allow peer to peer mode AllowP2P Never Veer A peer to peer session cannot be established between a controller and this target. If a ServerVIRL is provided, the targets can take part only in remote control sessions initiated from the server. Only if server is unreachable. A peer to peer session can be established between a controller user and this target only when the IBM Endpoint Manager for Remote Control server is down or unreachable. Allways A peer to peer session can be established between a controller user and this target only when the IBM Endpoint Manager for Remote Control server is down or unreachable. FIPS compliance FIPSCompliance FIPS compliance selected Select this option to enable the use of a FIPS certified ryported in FIPS compliance on the target, as on anable FIPS FIPS compliance selected reported in FIPS compliance on the target set that are installed. Only the IBM Java Run-time Environment (JRE) is supported in FIPS compliance on the controller components that are installed. Only the IBM Java Run-time Environment (JRE) is supported in FIPS compliance on the controller complete the following steps. 1. Edit the trc_controller, properties file on the system that the controller installation dir]\ windows [cont	Remote Control port	PortToListen	888	Specify the TCP port that the target listens on.
FIPS complianceFIPSCompliancenot selectedSelect this option to enable the use of a FIPS certified cryptographic provider for all cryptographic functions. For more information on enabling FIPS compliancy, see the IBM Endpoint Manager for Remote Control Installation Guide. Note: If you enable FIPS compliance on the controller components that are installed. Only the IBM Java Run-time Environment (JRE) is supported in FIPS-compliant mode and the JRE is installed when you install the controller components that are installed. Only the IBM Java Run-time Environment (JRE) is supported in FIPS-compliant mode and the JRE is installed when you install the controller, complete the following steps. 1. Edit the trc_controller.properties file on the system that the controller installation dir]\ trc_controller installation dir]\ trc_controller is installed in.Windows[controller installation dir] trc_controller, propertiesAccessibilityAccessibilitynot selectedAccessibilityAccessibilitynot selected	Allow peer to peer mode	AllowP2P	Never	 Used to enable peer to peer mode. Never A peer to peer session cannot be established between a controller and this target. If a ServerURL is provided, the targets can take part only in remote control sessions initiated from the server. Only if server is unreachable. A peer to peer session can be established between a controller user and this target only when the IBM Endpoint Manager for Remote Control server is down or unreachable. Always A peer to peer session can be established between a controller user and this target. Note: If this option is selected and a server url is provided, the targets can take part in both peer to peer sessions and sessions initiated from the server.
Accessibility Accessibility not Select this option to enable the accessibility UI. Available	FIPS compliance	FIPSCompliance	not selected	Select this option to enable the use of a FIPS certified cryptographic provider for all cryptographic functions. For more information on enabling FIPS compliancy, see the IBM Endpoint Manager for Remote Control Installation Guide. Note: If you enable FIPS compliance on the target, also enable FIPS compliance on the controller components that are installed. Only the IBM Java Run-time Environment (JRE) is supported in FIPS-compliant mode and the JRE is installed when you install the controller software. To enable FIPS compliance on the controller, complete the following steps. 1. Edit the trc_controller.properties file on the system that the controller installation dir]\ trc_controller installation dir]\ trc_controller.properties where [controller installation dir] is the directory that the controller is installed in. Linux opt/ibm/trc/controller/ trc_controller.properties 2. Set the fips.compliance property to true and save the file.
I COLOGEO A L'ANDRA D'ANDRA DE COLOGEO A CALORADA DE COLORADA	Accessibility	Accessibility	not	Select this option to enable the accessibility UI. Available

Session Options

	Table 2.	Session	option	descriptions
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User options	Target property	Default Value	Description
Allow monitor mode	AllowMonitor	selected	Determines whether the target can take part in monitor peer to peer sessions. For details of the different types of remote control session that can be established, see the IBM Endpoint Manager for Remote Control Controller User's Guide.
			selected The target can take part in monitor peer to peer sessions. The Monitor option is available for selection in the session type list in the controller window. The Open connection window also lists a Monitor option.
			not selected The target cannot take part in monitor peer to peer sessions. The Monitor option is not available in the session type list in the controller window.
Allow guidance mode	AllowGuidance	selected	Determines whether the target can take part in guidance peer to peer sessions.
			selected The target can take part in guidance peer to peer sessions. The Guidance option is available in the session type list in the controller window. The Open connection window also lists a Guidance option.
			not selected The target cannot take part in guidance peer to peer sessions. The Guidance option is not available in the session type list in the controller window.
Allow active mode	AllowActive	selected	Determines whether the target can take part in active peer to peer sessions.
			selected The target can take part in active peer to peer sessions. The Active option is available in the session type list in the controller window. The Open connection window also lists an Active option.
			not selected The target cannot take part in active peer to peer sessions. The Active option is not available in the session type list in the controller window.
Disable chat	DisableChat	not selected	Determines the ability to start a chat session with the target and also chat to the controller user during a peer to peer session.
			selected If ChatOnly is chosen as the connection type on the open connection screen, the session is refused. During the session, the chat icon is not available in the controller window.
			not selected A Chat Only session can be initiated from the open connection window. During the session, the chat icon is available in the controller window.

Table 2. Session option descriptions (continued)

User options	Target property	Default Value	Description
Disable file transfer to Controller	DisableFilePull	not selected	Determines the ability to transfer files from the target to the controller during the session.
			selected Files can be transferred from the target to the controller.
			not selected Files cannot be transferred from the target to the controller.
Disable file transfer to target	DisableFilePush	not selected	Determines the ability to transfer files from the controller to the target during the session.
			selected Files can be transferred from the controller to the target.
			not selected Files cannot be transferred from the controller to the target.
Disable clipboard transfer	DisableClipboard	not selected	Determines the availability of the clipboard transfer menu. Use the menu to transfer the clipboard content between the controller and target during a remote control session.
			selected The clipboard transfer menu is available during the session to transfer the clipboard content to and from the target.
			not selected The clipboard transfer menu is not available during the session.
Allow local recording	AllowRecording	selected	The controller user can make and save a local recording of the session in the controlling system.
			selected The record button is available in the controller window.
			not selected The record button is not available in the controller window.
Allow collaboration	AllowCollaboration	selected	Use this property to allow more than one controller to join a session. Determines the availability of the collaboration icon on the controller window.
			selected The collaboration icon is available in the controller window.
			not selected The collaboration icon is not available in the controller window.
Allow handover	AllowHandover	selected	The master controller, in a collaboration session, can hand over control of the session to a new controller. Determines the availability of the Handover button on the collaboration control panel.
			selected The Handover button is displayed in the collaboration control panel.
			not selected The Handover button is not visible in the collaboration control panel.

Table 2.	Session	option	descriptions	(continued)
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User options	Target property	Default Value	Description
Allows requests to disconnect session	AllowForceDisconnect	not selected	Determines whether a Disconnect session button is available in the message window that is displayed when you attempt to connect to the target. You can use the Disconnect session option to disconnect the current session.
			selected The disconnect button is displayed in the message window.
			not selected The disconnect button is not displayed in the message window.
Disconnect grace time	ForceDisconnectTimeout	45	Number of seconds you must wait for the current controller to respond to the prompt to disconnect the current session. If they do not respond in the time that is given, they are automatically disconnected from the session. The timer takes effect only when AllowForceDisconnect and CheckUserLogin are set to Yes. The default value is 45.
Connect at logon	AutoWinLogon	selected	Determines whether the user acceptance window is displayed on a target where the target user is not logged on.
			selected The acceptance window is not visible on the target and the session is established.
			not selected The session is refused because no user is logged on at the target to accept the session.
Run pre-session script	RunPreScript	not selected	Determines whether a user-defined script is run before the remote control session starts. The script is run just after the session is allowed but before the controller user has access to the target. The outcome of running the script and the continuation of the session is determined by the value that is set for Proceed on pre/post-script failure .
			selected When a remote control session is requested, the defined script is run before the controller user has access to the target.
			not selected No script is run before the session. For more information about setting up pre and post session scripts, see the IBM Endpoint Manager for Remote Control Administrator's Guide.
Run post-session script	RunPostScript	not selected	Determines whether a user-defined script is run after the remote control session finishes.
			selected When a remote control session ends, the user-defined script is run.
			not selected No script is run after the session. For more information about setting up pre and post session scripts, see the IBM Endpoint Manager for Remote Control Administrator's Guide.
Proceed on pre/post-script failure	ProceedOnScriptFail	not selected	Action to take if the pre-script or post-script execution fails. A positive value or 0 is considered a successful run of the pre-script or post-session script. A negative value, a script that is not found, or not finished running within 3 minutes is considered a failure.
			selected If the pre-script or post-script run is a fail, the session continues.
			not selected If the pre-script or post-script run is a fail, the session does not continue and ends.

Table 2.	Session	option	descriptions	(continued)
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User options	Target property	Default Value	Descriptior	n
Reset console after RDP console session	WorkaroundW2K3RDP	Not selected	Automatica console sess or /console Windows S control sess Remote Des the display. controller. T Therefore, t reset the W session end depending	ally reset the console after a Remote Desktop sion. When a Remote Desktop user uses the /admin a option to start a Remote Desktop session with a server 2003 system and a user starts a remote sion with this target before, during or after the sktop session, remote control is unable to capture . The result is that a gray screen is shown in the This issue is a limitation in Windows Server 2003. this property introduces a workaround that will <i>V</i> indows session either after each Remote Desktop ls, or before a remote control session starts, on the value selected.
			0 T d	he workaround is disabled. This value is the lefault value.
			1 R cc N d m is	Reset the session automatically when a remote ontrol session is started. Note: The Windows session takes a couple of ninutes to initialize and the controller sees a blank lesktop until the initialization is complete. A nessage informs the controller user that the session is being reset and it might take a few minutes.
			2 R D	Reset the session automatically when the Remote Desktop user logs out.

User Acceptance Options

Table 3.	User	acceptance	option	descriptions
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User options	Target property	Default Value	Description
Confirm incoming connections	ConfirmTakeOver	selected	Determines whether the acceptance window is displayed on the target, when a remote control session is requested. selected The user acceptance window is displayed and the target user can accept or refuse the session. not selected The user acceptance window is not displayed and the
			session is established.
Confirm mode changes	ConfirmModeChange	selected	Determines whether the user acceptance window is displayed when the controller user selects a different session mode from the session mode list on the controller window.
			selected The user acceptance window is displayed each time a session mode change is requested and the target user must accept or refuse the request.
			not selected
			The user acceptance window is not displayed and the session mode is changed automatically.

Table 3	lleer	accentance	ontion	descriptions	(continued)
Table 3.	USEI	acceptance	οριιοπ	uescriptions	(continueu)

User options	Target property	Default Value	Description
Confirm file transfers	ConfirmFileTransfer	selected	Determines whether the user acceptance window is displayed when the controller user selects to transfer files between the target and the controller.
			selected The acceptance window is displayed in the following two cases. The target user must accept or refuse the file transfer.
			 The controller user selects pull file from the file transfer menu on the controller window. The target user must select the file, that is to be transferred after they have accepted the request.
			• The controller user selects send file to controller from the Actions menu in the target window.
			Not selected
			The acceptance window is not displayed and files are transferred automatically from the target to the controller system when requested.
Confirm system information	ConfirmSysInfo	selected	Determines whether the user acceptance window is displayed when the controller user requests to view the target system information.
			selected When the controller user clicks System information in the controller window, the user acceptance window is displayed. The target user must accept or refuse the request. If the target user clicks accept, the target system information is displayed in a separate window on the controller system. If they click refuse, a message is displayed on the controller and the system information is not displayed.
			not selected
			The target system information is displayed automatically when the controller user clicks the system information icon.
Confirm recording	ConfirmRecording	selected	Determines whether the user acceptance window is displayed when the controller user clicks the record icon on the controller window.
			 selected When the controller user clicks the record icon on the controller window, a message window is displayed. If the target user clicks Accept, the controller user can select a directory to save the recording to. If the target user clicks Refuse, a recording refused message is displayed to the controller. Note: After the target user accepts the request for recording, if the controller user stops and restarts local recording, the acceptance window is not displayed.
			not selected
			When the controller user clicks the record icon on the controller window, the message window is not displayed. The controller user can select a directory to save the recording to.
Confirm collaboration	ConfirmCollaboration	selected	Determines whether the user acceptance window is displayed when another controller user requests to join a collaboration session with a target.
			selected When the controller user tries to join the collaboration session, the user acceptance window is displayed. The target user must accept or refuse the request to allow the additional controller to join the session. If the target user clicks accept, the additional controller joins the collaboration session. If they click refuse, a message is displayed on the controller and the additional controller cannot join the collaboration session.
			not selected The additional controller automatically joins the collaboration session when they try to connect to the master controller of the session.

Table 3. User acceptance option descriptions (continued)

User options	Target property	Default Value	Description
Acceptance grace time	AcceptanceGraceTime	45	Sets the number of seconds to wait for the target user to respond before a session starts or times out, used with Confirm incoming connections .
			• Acceptable values 0 - 60 - If set to 0, the target user is not asked to respond to the session request.
			Note: If Confirm incoming connections is selected, Acceptance grace time must be set to a value >0 to provide the target user with enough time to respond.
Proceed on acceptance timeout	AcceptanceProceed	not selected	Action to take if the user acceptance window timeout lapses. The target user did not click accept or refuse within the number of seconds defined for Acceptance grace time .
			selected Session is established.
			not selected Session is not established.
Hide windows	HideWindows	not selected	Determines whether the Hide windows check box is displayed on the user acceptance window when Confirm incoming connections is also selected.
			selected The Hide windows check box is displayed on the user acceptance window.
			not selected The Hide windows check box is not visible on the user acceptance window.

Security options

Table 4. security option descriptions

Security options	Target property	Default Value	Description
Authenticate using system logon	CheckUserLogin	selected	Determines whether the login window is displayed when a session type is selected on the Open Connection window. Yes The login window is displayed and the controller user must log in with a valid windows id and password. If the logon credentials are invalid, the target refuses the session. No The user acceptance window is not displayed and the
			peer to peer session is established.

Security options	Target property	Default Value	Description
Authorized user group	CheckUserGroup	see description	Default value is:
			Windows
			BUILTIN\Administrators
			Linux
			wheel
			 When Authorized user group has a value set, the user name that is used for authentication must be a member of one of the groups that are listed. If the user is not a member, the session is refused. Multiple groups must be separated with a semicolon. For example: wheel; trcusers Note: By default, on Windows, only the Administrator user is granted access. On Linux, by default no users are granted access. To resolve this, you can complete one of the following steps. 1. To also grant administrator rights to the users, add them as members to the Administrators group on Windows or the wheel group on Linux. 2. For users with no administrator rights, complete the following steps a. Create a group or use an existing group. For example, the following command can be run as root: groupadd trcusers. b. Add the users to this group. For example, the following command can be run as root to add bsmith to trcusers: usermod -a -G trcusers smith>
			field.
Audit to system log	AuditToSystem	selected	Determines whether the actions that are carried out during remote control sessions are logged to the application event log on the target. This file can be used for audit purposes.
			selected Entries are logged in the application event log of the target corresponding to each action that is carried out during the session.
			not selected No entries are logged to the application event log.
Save chat messages	AutoSaveChat	not selected	Determines whether the dialogue, entered during a chat session, can be saved.
			selected The chat dialogue is saved as an html file. The file name starts with chat. The file is saved in the working directory of the target. The location of the working directory is defined by the target property WorkingDir. For example, in Windows a file named chat-m15.html saved to the following location.
			c:\Documents and Settings\All Users\Application Data\IBM\Tivoli\Remote Control
			not selected The chat dialogue is not saved to a file.

Table 4. security option descriptions (continued)

Table 4. security option descriptions (continued)

Security options	Target property	Default Value	Description
Lock target on disconnect	SessionDisconnect	not selected	Determines whether the target computer is automatically locked when the remote control session ends.
			selected The target computer is automatically locked at the end of the session.
			not selected The target computer is not automatically locked at the end of the session.
Allow privacy	AllowPrivacy	selected	Determines whether a controller user can lock the local input and screen of the target when in a remote control session. Determines the visibility of the Enable Privacy option on the controller window.
			selected The Enable Privacy option is available in the Perform Action in target menu in the controller window.
			not selected The Enable Privacy option is not available in the Perform Action in target menu in the controller window.
Allow input lock	AllowInputLock	selected	This property works with Allow privacy and on its own. You can use Allow input lock to lock the target users mouse and keyboard during a remote control session.
			selected The lock target input menu item is enabled, in the Perform action in target menu in the controller window. Select lock target input to lock the target users mouse and keyboard during a remote control session. The target screen is still visible to the target user.
			 not selected The lock target input menu item is not enabled in the Perform action in target menu in the controller window. Note: If the option to Enable Privacy is selected during a session, the remote user input is automatically locked. It is not possible to enable privacy without also locking the input.
Enable privacy	EnablePrivacy	not selected	Determines whether the local input and screen are locked for all sessions. Therefore, the target user cannot input or do anything on the target while in a remote control session.
			selected The target screen is blanked out by the privacy bitmap when the session starts, preventing the target user from interacting with the screen while in the session. The target desktop is still visible to the controller user in the controller window.
			not selected The target screen is not blanked out when the session is started and the target user can interact with the screen.
Table 4. security option descriptions (continued)

Security options	Target property	Default Value	Description
Enable input lock	EnableInputLock	not selected	This property works with Enable privacy . When privacy mode is enabled, use Enable input lock to determine whether the target user can view their screen or not, during a remote control session.
			selected The target screen is visible to the target user during the session, while in privacy mode but their mouse and keyboard control is locked.
			 not selected The target screen is not visible to the target user. The privacy bitmap is displayed on the target during the session. The target users mouse and keyboard input is also disabled. Note: Enable privacy should be selected for Enable input lock to the target user.
DisablePanicKey	DisablePanicKey	not selected	Determines whether the Pause Break key can be used by the target user to automatically end the remote control session.
			selected The target user cannot use the Pause Break key to automatically end the remote control session.
			not selected The target user can use the Pause Break key to automatically end the remote control session.
Enable on-screen session notification	EnableOSSN	not selected	Determines whether a semi-transparent overlay is displayed on the target computer to indicate that a remote control session is in progress. Use this property when privacy is a concern so that the user is clearly notified when somebody can remotely view or control their computer.
			selected The semi-transparent overlay is displayed on the target screen with the text IBM Endpoint Manager for Remote Control and what type of remote control session is in progress. For example : IBM Endpoint Manager for Remote Control - Active Mode. The overlay does not intercept keyboard or mouse actions, therefore the user is still able to interact with their screen.
			not selected No overlay is displayed on the target computer. Note: This policy is only supported on targets that have a Windows operating system installed.
Disable GUI	DisableGUI	not selected	Determines the appearance of the target GUI when the remote control session is starting and also during the session. Note: This option works only when the target is installed in peer to peer mode and the Managed target property is set to No. This option is ignored when applied to any targets that were installed using the IBM Endpoint Manager for Remote Control server mode when a server URL was supplied.
			selected The target GUI is not visible on the target and the target user is not aware that the session is started. The IBM Endpoint Manager for Remote Control target icon is not visible in the Windows system tray.
			not selected The target GUI is displayed on the target as the session is starting and is available to the target user during the remote control session.

Performance options

Table 5. performance option descriptions

Security options	Target property	Default Value	Description
Inactivity timeout	IdleTimeout	360	Specify the number of seconds to wait until the connection ends if there is no remote control session activity. Set this value to 0 to disable the timer so that the session does not end automatically. The minimum timeout value is 60 seconds. Therefore, a value >0 and <60 times out at approximately 60 seconds and values >60 timeout when value is reached. The default value is 360. Set the value to 0 for sessions that do not involve sending or receiving information from the controller to the target. For example, in Monitor sessions.
Enable true color	EnableTrueColor	not selected	Determines the availability of the Enable/Disable true color icon in the controller window. Used with Lock color depth. selected The Enable/Disable true color icon is available in the controller window. Use the icon to enable true colors on the controller windows view of the target desktop if the Lock color depth property is not selected
			not selected The Enable/Disable true color icon is not available in the controller window.
Lock color depth	LockColorDepth	not selected	Used along with Enable true color to determine the color depth when a remote control session is established. selected The chosen color depth, for the remote control
			session, is locked and cannot be changed during the session. not selected If the Enable true color property is selected also, the chosen color depth can be changed during the session.
Remove desktop	RemoveBackground	not selected	Determines whether a desktop background image can be removed from view during a remote control session.
			selected The desktop background image, on the target, is not visible during a remote control session.
			not selected The desktop background image, on the target, is visible during a remote control session.
Stop screen saver updates	NoScreenSaver	not selected	Stops the target from sending screen updates when it detects that the screen saver is active.
			selected While the screen saver is active on the target system, the target stops transmitting screen updates. A simulated screen saver is displayed on the controller computer so that the controller user knows that a screen saver is active on the remote screen. The controller user can close the screen saver by pressing a key or moving the mouse.
			not selected No simulated screen saver is displayed in the session window. The target screen is displayed as normal and the target continues to transmit screen updates.

- **3**. Click **Create Configuration Task**. Type the relevant information for your task and click **OK**
- 4. Enter your private key password and click OK.

Your task is displayed in the list panel of the Remote Control Settings Tasks subnode.



Running IBM Endpoint Manager for Remote Control tasks

When you have used the server and target configuration wizards to create configuration tasks you can run these tasks to install the IBM Endpoint Manager for Remote Control server software on selected targets or change the configuration of already installed targets.

Running server installer tasks

Use the Remote Control Server Installer Tasks subnode to run the tasks that you created using the IBM Endpoint Manager for Remote Control Server Installer Wizard. Select the required task then in the Task window, review the description and follow the instructions in the Actions box to initiate the task. These tasks install the IBM Endpoint Manager for Remote Control server software on to your selected computers.

Search Manage Configurations 🔎 🗖
Search Manage Configurations aller Task - Windows (SQL SERVER 2008 2) aller Task - Test Task "" r Installer Task - Test Task Copy
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Note: If the server installer fails, the task will fail and an exit code is displayed.

Running target configuration tasks

Use the Remote Control Settings Tasks sub-node to execute the configuration tasks that you created using the IBM Endpoint Manager for Remote Control Target Wizard. Select the required task then in the Task window, review the description and follow the instructions in the Actions box to initiate the task.



Analyses

The Analyses subnode provides a set of analyses which gather installation, user and audit information. This data provides a history of remote control connection events that have taken place on the computers in your environment that have the controller or target components installed. These analyses are activated globally therefore any computers in your environment, that the analysis is relevant for, report their values.

Retrieving target installation and security data

The **Remote Control Installation and Security Options** analysis is used for gathering information about the installation and security property values from targets in your environment that have the IBM Endpoint Manager for Remote Control target software running. You can use the values returned for these properties to determine various things about the targets, for example if they are allowed to take part in peer to peer sessions and if they can take part in remote control sessions initiated from a IBM Endpoint Manager for Remote Control server. For property value definitions, see step 2 on page 56.

otion	Details	Results	Applicable Computers (1)	
		10170501202		
)escri	ption			
This and	analysi: security	s shows option	information about the IBM Endpoint Manager for Remote Control Target installation s.	
Conf	iguratio	n optio	15:	
14	Remot	e Control	Target Running: Shows if the Remote Control Target is running.	
•	Remot	e Control	Target Version: Shows the version of the Remote Control Target.	
	Provv	URL: The	Remote Control Server that manages the Target. Proxy server configuration for the Target	
	Defaul	t Target (Group: Group the Target will be added when it registers on the Remote Control Server.	
	Remot	e Control	Port: TCP port that the Target will listen on. Default value: 888	
8	Allow	P2P: Allo	w P2P connections. Default value: No war: Allow P3P connections only if the Pernete Control carves is unreachable. Default value: No	
	FIPS C	ompliance	e: Enable the use of a FIPS certified cryptographic provider for all cryptographic functions. Default	c .
	value:	No		
	Access	ibility: U	se the accessible GUI. Default value: No	
	Auther Author sessio	ized Use n. Defaul	ing System Logon: Require system credentials to start the Remote Control session. Default value: Yr r Group: Specifies the groups the controller user needs to belong to to be able to start a Remote Cor t value: BUILTIN\Administrators or wheel	es etrol
58	Audit 1	To System	Log: Audit remote access events to the system log. Default value: Yes	
	Save C	hat Mess	ages: Automatically save chat sessions locally. Default value: No Disconnect: Lock the target automatically after the Remote Control session. Default value: Disabler	
	Allow	Privacy: I	Privacy mode can be enabled during the Remote Control session. Default value: Yes	8
	Allow	Input Loc	k: Input Lock on the Target can be enabled during the Remote Control session. Default value: Yes	
	Enable	Privacy	Privacy mode is enabled when the Remote Control session starts. Default value: No	
	Disable value:	e Panic k No	ex: input lock on the larget is enabled when the kemote control session starts. Default value, no ley: Disables the key in the target that allows the user to terminate the Remote Control session. Default value, no	ault
10	Enable Contro	On-Scre	en Session Notification: Displays a notification on the Remote Control Target to indicate that a Ren 1, where the screen is being shared, is active. Default value: No	note
	Disabl	e GUI: Di	sables the Remote Control Target GUI. Default value: No	
	Broker	List: List	of configured Brokers.	

If the analysis is active, the Results tab lists the computers that this analysis was relevant for and the values of the installation and security options are displayed. You can expand the Applicable Computers entry and filter the data further by Retrieved Properties. This can be useful in many ways, for example, for determining which targets can take part in peer to peer remote control sessions or viewing the version of target software installed on the various IBM Endpoint Manager for Remote Control targets.

For example, to determine which targets are running a specific version of IBM Endpoint Manager for Remote Control target, expand **Applicable Computers** > **By Retrieved Properties** > **By Remote Control Target Version** and select a specific version from the list. The list of targets that have the selected version of software installed, is displayed.

Retrieving audit events data

The **Remote Control Controller Logs** analysis is used for gathering the audit events from any computers in your environment that have the IBM Endpoint Manager for Remote Control controller component installed. The information is retrieved and updated every 6 hours. This information can be used for auditing purposes and also for monitoring session activity carried out by the controller user.

ecription	Dataila	Applicable Considers (E)		
scription	Details	Applicable Computers (5)		
Descr	iption			
This Con com	analysis trol Con puter's l	s shows the logs of IBM I roller audit events. The ocal logs. is information is pulled b	Endpoint Manager for information is retrieve	Remote ed from each
1100				vels
	lok horo	to activate this analysis		

If the analysis is active, the Results tab lists the computers that this analysis was relevant for. Double-click on a computer to see summary data for the selected computer, which includes a section for the controller log entries retrieved by the **Remote Control Controller Logs** analysis. You can also expand the Applicable Computers entry and filter the data further by specific retrieved properties.

Note: If the controller component is actively in a remote control session while the analysis tries to gather data from it, an error stating that the file is in use might be reported in the analysis results.

Retrieving user, session and performance data

The **Remote Control User**, **Session and Performance Options** analysis is used for gathering user interaction, session behaviour and performance property values from targets in your environment that have the IBM Endpoint Manager for Remote Control target software running. These properties can be used to determine what actions the controller user can carry out during a remote control session with this target. For property value definitions, see step 2 on page 56.

otion	Details	Applicable Computers (1)	
escr	intion		
COUL	ipuon		
This End	analysis point Ma	is shows information about the user interaction, session behavior and performance configuration anager for Remote Control Targets.	ons from the IBM
Con	figuratio	on options:	
	Allow I	Monitor Mode: Allow Monitor mode during the Remote Control session. Default value: Yes	
	Allow	Guidance Mode: Allow Guidance mode during the Remote Control session. Default value: Yes	
	 Allow 	Active Mode: Allow Active mode during the Remote Control session. Default value: Yes	
8	 Disabl 	le Chat: Disable chat mode. Default value: No	
13	Disabl	The Transfer to Controller: Disable pulling files from the Remote Control Target. Default value: No	
	Disabl	le Cliphoard: Disable cliphoard sharing. Default value: No	
	Allow	Local Recording: Allow recording the Remote Control session. Default value: Yes	
	Allow	Collaboration: Allow collaboration during the Remote Control session. Default value: Yes	
	 Allow I 	Handover: Allow handover of the session while in collaboration during the Remote Control session. Default v	ralue: Yes
	Conner	ect At Logon: Allows Remote Control sessions when no user is logged in. Default value: Yes	
	 Run Pr Bup Br 	re-Session Script: Run a script automatically before the Remote Control Session starts, Default value: No	
	Procee	ed On Script Failure: Proceed with the Remote Control session if the Pre-Session script fails. Default value: No	2
8	 Reset 0 value: 	Console After RDP Console Session: Reset the console on the Remote Control Target system after a RDP consol : No	e session. Default
	Confirm	rm Incoming Connections: End user confirms the Remote Control session. Default value: Yes	
	Confir	rm Mode Changes: End user confirms switching remote control modes (e.g., Guidance Mode to Active Mode). L rm File Transfer: End user confirms file transfers. Default value: Yes	Jefault value: Yes
	Confin	rm System Information: End user confirms sending system information. Default value: Yes	
20	Confir	rm Recording: End user confirms the session can be recorded. Default value: Yes	
2	Confire	rm Collaboration: End user confirms other controllers can join the Remote Control session. Default value: Yes	
1	 Accept 	tance grace time: Time before a confirmation request is automatically accepted or denied. Default value: 45	
	 Proceet 	ed on Acceptance Timeout: Accept a confirmation request automatically when the grace time expires. Default	value: No
3	 Hide w Inactiv 	windows: Allows the user to hide windows from view while the Remote Control Session is active. Default value with timeout: Time of inactivity allowed before the session is automatically closed. Default value: 360	e: NO
	Enable	e True Color: Enables True Color depth for the Remote Control session. Default value: No	
	Lock C	Color Depth: Disable switching color depth for the Remote Control session. Default value: No	
8	Remov	ve Desktop: Remove the desktop's background on the Remote Control Target system while the session is active	. Default value: No
2	 Stop So 	creensaver Updates: Stop sending screen updates while the screensaver is active. Default value: No	
12	 Allow 	Force Disconnect: Allows other controllers connecting to the target to request the interruption of the session	in progress with
	Eorce I	er controller. Detault value: No Disconnert Timeout: Timeout in seconds until a session in progress is disconnected if the current controller.	does not respond to
	the int	terruption request. Default value: 45.	abes not respond to
		Van zuste ete unternetzen en e	

If the analysis is active, the Results tab lists the computers that this analysis was relevant for and the values of the user interaction properties are displayed. You can expand the Applicable Computers entry and filter the data further by specific retrieved properties.

Retrieving session connection data

The **Remote Control Target Log (Start/Stop)** analysis is used for gathering the audit events from any computers in your environment that have the IBM Endpoint Manager for Remote Control target component installed. The information is retrieved and updated every 6 hours. The information returned by this analysis is useful for viewing remote control session usage activity on specific targets as it is only the session connection, start and stop events that are returned for each session. If you require information about the remote control session activity, use the **Remote Control Target Log** analysis.

Note: This analysis is only valid for windows targets.

the session start and stop logs of IBM	
the session start and stop logs of IBM	
or Remote Control Target events. The ved from each computer's application	
nation is pulled back once every 6	
	nation is pulled back once every 6 te this analysis.

If the analysis is active, the Results tab lists the computers that this analysis was relevant for. Double-click on a computer to see summary data for the selected computer which includes a section for the target log start/stop entries. You can also expand the Applicable Computers entry and filter the data further by specific retrieved properties.

Retrieving session activity data

The **Remote Control Target Logs** analysis is used for gathering the audit events from any computers in your environment that have the IBM Endpoint Manager for Remote Control target component installed. The information is retrieved and updated every 6 hours. This information is useful for auditing purposes, providing details of actions carried out during a remote control session, for example, a change in session type or a file transfer. The controller user who was carrying out the session is also displayed.

Description	Details Applicable Computers (2)
	Petans Appreasic comparers (2)
Descr	iption
This Rem from	analysis shows the logs of IBM Endpoint Manager for ote Control Target events. The information is retrieved each computer's application event log.
Note	e that this information is pulled back once every 6 hours.
-	1997 - 1997 - 1997 - 1999 - 19

If the analysis is active, the Results tab lists the computers that this analysis was relevant for. Double-click on a computer to see summary data for the selected computer which includes a section for the target log entries retrieved by the **Remote Control Target Logs** analysis. You can also expand the Applicable Computers entry and filter the data further by specific retrieved properties.

Note: The reason codes returned in this data can be viewed completely by using the web reports to display the output. For more details, see Chapter 6, "Viewing web reports," on page 77.

Chapter 6. Viewing web reports

IBM Endpoint Manager for Remote Control offers a report available in the Web Reports component of the application. This web report was formulated to provide log data gathered from the controller and target logs relevant to specific targets. This data can be used for auditing purposes and for monitoring remote control activity on specific machines in your environment.

To access the IBM Endpoint Manager for Remote Control web report complete the following steps:

File Edit View Go	Tools Help
🖨 Back 🔻 🗰 Forward 💌	🖉 Take Custom Action
Systems Lifecycle Systems Lifecycle E Systems Lifecycle E Remote Control Cc IBM Endpoint N IBM Endpoi Warnings (1 Deployment Window Linux (10 Manage Co	 Create New Fixlet Create New Task Create New Baseline Create New Analysis Create New Analysis Create New Automatic Computer Group Create New Manual Computer Group Add External Site Masthead Add Files to Site Add LDAP Directory
in Analyses (5) ▷ 💼 All Systems Lifecyc	 Create Custom Site Create Operator Add LDAP Operator Create Role Create Custom Filter Ctrl+Shift+F
	Manage Properties View Recent Comments Launch Web Reports

1. Click Tools > Launch Web Reports

2. Enter your Web Reports username and password. If you do not know your username or password, check with your Administrator.

ogin	
Please enter your username and ponnect to Web Reports.	bassword to
Jsername:	
assword:	

After login, you will see the main Web Reports page open in a new browser.

- **3**. Select **Systems Lifecycle** to see a list of reports including the IBM Endpoint Manager for Remote Control report. You will see the IBM Endpoint Manager for Remote Control Events entry in the reports list displayed under the Report List menu:
- 4. Click IBM Endpoint Manager for Remote Control Events.
- 5. Enter the computer name of the target whose information you want to view and click **View Events**.

Any log data that has been gathered from the controller and target logs, for the specified target is displayed in the relevant sections, showing the remote control events.

Appendix A. Frequently Asked Questions

1. I have installed the target software on a target in my environment, but I do not have an option to start a remote control session when I right click on the computer in the IBM Endpoint Manager console?

To start a remote control session using this method make sure that the following conditions are met .

- The controller component is also installed on the system that the IBM Endpoint Manager console is installed on.
- The **Remote Control Installation and Security Options** analysis needs to be active for the selected computer and reporting that the IBM Endpoint Manager for Remote Control target is active, for the menu item to be visible.
- When the controller is deployed it is only the current user who is logged on to the machine that you are deploying to that will have the rights to see the menu item that allows you to start a session. It is not visible to other users. The following registry key can also be created.

Key name: HKEY_CURRENT_USER\Software\BigFix\Enterprise Console\Settings\ComputerListContextMenuExtensions\TivoliRC

With the following values

ComputerApplicabilityRelevance = value of results (current computer, property 1 of fixlet 4 of bes site whose (name of it starts with "Tivoli Remote Control")) = "True"

MaxComputerSetSize = 1

MenuDisplayName= &IBM Endpoint Manager for Remote Control **ShellCommandRelevance** = "%22C:\Program Files\IBM\Tivoli\Remote

Control\Controller\jre\bin\javaw.exe%22 -jar %22C:\Program Files\IBM\Tivoli\Remote Control\Controller\TRCConsole.jar%22 --host " & hostname of current computer

2. I have deployed the target software in peer to peer mode but want the target to register with my IBM Endpoint Manager for Remote Control, how can I get it to connect to the server?

Use the IBM Endpoint Manager for Remote Control Target Wizard to create a configuration task and specify the server URL of the required server. Running this task on the selected target will reconfigure it so that it can contact the server. For more details, see "Creating IBM Endpoint Manager for Remote Control target configuration tasks" on page 55.

3. Where can I find more information on using IBM Endpoint Manager for Remote Control ?

Information for installing, using and administering IBM Endpoint Manager for Remote Control can be found in the IBM Endpoint Manager for Remote Control infocenter.

4. Additional IBM Endpoint Manager for Remote Control function is available when you have the IBM Endpoint Manager for Remote Control server component installed, where can I obtain the server component from? You can create a server installation task using the IBM Endpoint Manager for Remote Control Server Installer Wizard to create a IBM Endpoint Manager for Remote Control server configuration. For more details, see "Creating IBM Endpoint Manager for Remote Control server installation tasks" on page 49. You can also install a server which points to an already installed Websphere Application server instance using an already installed DB2, MS SQL or Oracle database. For more details, see the **Installing the server** section in the IBM Endpoint Manager for Remote Control Installation Guide.

5. How can I determine which type of server installation would be suit my environment?

See the IBM Endpoint Manager for Remote Control Installation Guide for some guidelines for consideration when planning your installation.

Appendix B. Support

For more information about this product, see the following resources:

- IBM Endpoint Manager Support site
- IBM Endpoint Manager wiki
- Knowledge Base
- Forums and Communities

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Index

Α

analyses 70 application log 74 remote control controller logs 71 remote control installation and security options 70 remote control target log (start/stop) 73 remote control user, session and performance options 72 audit events retrieving data 71

В

broker updates Linux 44 windows 39

С

cli updates linux 42 windows 37 cli tools deployment linux 30 windows 19 uninstallation linux 31 windows 20 controller deployment linux 28 windows 17 uninstallation linux 29 windows 18 updates linux 41 windows 36 controller logs retrieving data 71

D

dashboards 9 IBM Endpoint Manager for Remote Control overview 9 data gathering 70 db2 server installation configurations 49, 52 definitions 3 Deploying Linux broker support from the console 33 Deploying Windows broker support from the console 23 deployment cli tools linux 30 windows 19 controller linux 28 windows 17 gateway support linux 31 windows 21 linux 25 overview 13 target linux 25 windows 14 windows 14 deployment data viewing 9 derby server installation configurations 49, 51

F

firewall rules 48 frequently asked questions 79

G

gateway updates Linux 43 windows 38 gateway support deployment linux 31 windows 21 uninstallation linux 32 windows 22

IBM Endpoint Manager for Remote Control using 13 IBM Endpoint Manager for Remote Control overview 9 IEM console components 5 dashboards 9 overview 5

Μ

managed mode session starting 47 managing target and server configurations 49 MS SQL server installation configurations 54 mssql server installation configurations 49

0

oracle server installation configurations 49, 55 Overview 1

Ρ

peer to peer session controller initiated 47 M console initiated 46

R

remote control server installer tasks executing 69 remote control session console initiated 46 peer to peer 45 starting 45 using the IBM Endpoint Manager for Remote Control server 47 Remote Control settings tasks 69 response warnings 48

S

server installation configurations creating 49 db2 49, 51, 52 derby 49 MS SQL 54 mssql 49 oracle 49, 55 server installation tasks creating 49 running 69 session activity data retrieving 74 session connection data retrieving 73 starting a remote control session 45

Τ

target deployment linux 25 windows 14 target (continued) uninstallation linux 27 windows 16 updates linux 40 windows 36 target configuration task creating 55 executing 69 target data installation 70 properties 70 security 70 target installation data retrieving 70 target properties configuring 55 retrieving data 70 target security data retrieving 70 target user data retrieving 72 tasks executing 69

U

uninstallation cli tools linux 31 windows 20 controller linux 29 windows 18 gateway support linux 32 windows 22 target linux 27 windows 16 Uninstalling Linux broker support from the console 34 Uninstalling Windows broker support from the console 24 updates broker Linux 44 windows 39 cli linux 42 windows 37 component 35 controller linux 41 windows 36 gateway Linux 43 windows 38 linux 40 target linux 40 windows 36 windows 36 using IBM Endpoint Manager for Remote Control 13

V

viewing web reports 77

W

warnings 48 web reports viewing 77 wizard server installation configuration 49 target configuration 55



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