Version 1.0 Tivoli Integrated Portal 2.2.0.17
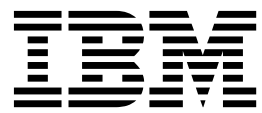
*Tivoli Integrated Portal
Fix pack guide*

IBM

Version 1.0 Tivoli Integrated Portal 2.2.0.17

Tivoli Integrated Portal
Fix pack guide

IBM

> **Note**
> Before you use this information and the product it supports, read the information in "Notices" on page 19.

This edition applies to version 2, release 2, fix pack 17 of IBM Tivoli Integrated Portal and to all subsequent releases and modifications until otherwise indicated in new editions.

Contents

Chapter 1. Tivoli Integrated Portal 2.2.0.17 fix pack overview

Use this fix pack to update your Tivoli® Integrated Portal 2.2.0.*x* environment to Tivoli Integrated Portal 2.2.0.17.

Tivoli Integrated Portal 2.2.0.17 includes fix for all issues since the release of Tivoli Integrated Portal 2.2. This fix pack updates your existing Tivoli Integrated Portal 2.2.0.*x* environment to Tivoli Integrated Portal 2.2.0.17 regardless of its current version number.

Updated components

The following components were updated to the indicated versions:
* Embedded WebSphere® Application Server Version 7.0.0.39
* Java™ SDK Version 1.6 SR17 Fix Pack 7

Browser support

Support for the following browsers is available in Tivoli Integrated Portal 2.2.0.17:
* Microsoft Internet Explorer version 11 (Compatibility mode)
* Firefox Extended Support Release (ESR) Version 38

Chapter 2. Authorized Problem Analysis Reports (APARs)

APARs addressed in recent IBM® Tivoli Integrated Portal fix pack releases.

APARs:
- IBM Tivoli Integrated Portal 2.2.0.17:
  - **PI33353** - Large number of active users can cause Tivoli Integrated Portal to deadlock
  - **PI34461** - Portlet is blank or does not load after Tivoli Integrated Portal 2.2.0.15 installation
  - **PI34745** - Imported custom pages or folders are not in original order
  - **PI39464** - Tivoli Integrated Portal 2.2.0.15 installation: `TIPCOREPOSTCONIFG STEPS FAILURE "RESULT: 23"`
  - **PI41033** - HTTP response splitting security vulnerability issue in About Page
  - **PI42450** - Custom pages missing after installing Tivoli Integrated Portal 2.2.0.15
  - **PI44575** - AELs fail to load when switching between multiple pages containing Web Widgets launching to HTML pages with Smartpage
  - **PI50230** - Security vulnerability: Displaying `ISC_SESSION_ID` in Tivoli Integrated Portal `NOP.JSP` URL
- IBM Tivoli Integrated Portal 2.2.0.15:
  - **PI13127** - Tivoli Integrated Portal privileged user role does not work in freeform pages. It works in classic pages
  - **PI13360** - `hatool.sh/bat` does not work when Java path not set (Internal APAR)
  - **PI14405** - Page order after running **`tipcli.sh import`** is not correct in Tivoli Netcool/OMNIbus Web GUI version 7.4
  - **PI18560** - Code needs to be optimized to support a greater number of views (that is, greater than 100) efficiently
  - **PI18558** - Tivoli Integrated Portal affected by WebSphere Application Server, which is affected by STRUTS vulnerability (CVE-2014-0114)
  - **PI18886** - Customer has to login twice on Tivoli Integrated Portal, after a panel or component in the Web GUI times out
  - **PI18943** - Tivoli Integrated Portal help search does not return results when the browser locale is set for Japanese
  - **PI21112** - HTTP login and logout pages are not displayed after configuring HTTP and HTTPS access in Tivoli Integrated Portal
  - **PI21438** - Tivoli Integrated Portal taskbar is flickering in Microsoft Internet Explorer version 10 in Russian locale when opening pages
  - **PI23874** - Chart not changing when `MANAGEDSYSTEMNAME` changes
  - **PI24458** - Tivoli Integrated Portal to pick up new Tivoli Widgets Library driver for updating the data provider
  - **PI26253** - Incorrect steps for configuring HTTP and HTTPS in Tivoli Integrated Portal 2.*x* documentation (Documentation APAR)
- IBM Tivoli Integrated Portal 2.2.0.13:
  - **PM73281** - Applet bleedthrough and transparent skin issue
  - **PM80185** - Dotted line issue in widgets when overlapping on applets

– **PM82006** - `ConfigureTIPAudit.sh/bat` script fails to enable/disable
– **PM82926** - Role management access to pages and access to views not synchronized
– **PM83181** - Ignore possible bad refs in Events and Wires
– **PM83866** - When custom workspaces are queried from `TIPWebSErviceHttpRouter`
– **PM84663** - Double login after session times out
– **PM85231** - Tivoli Common Reporting reports fail to display as the width is not getting set
– **PM85327** - update `WASFP.xml` to handle `WASServiceMsg.dll` locking
– **PM85401** - Unable to join a IBM Tivoli Integrated Portal 2.2.0.9 node in a load balanced cluster
– **PM87319** - Export issue: Only roles with pref profile are being exported
– **PM89644** - Events not loaded when pages are setup as startup pages in Microsoft Internet Explorer
– **PM90850** - Performance issues when PAM is configured for user authentication
– **PM92186** - Page switching does not happen in Internet Explorer when webwidget pages are open
– **PM95166** - `LaunchEvent` multi task page loading same instance
– **PM85861** - Additional redirects to images with no theme used
– **PM97874** - List of **Active users only** does not return the complete list of Active users
– **PI06884** - Cluster dashboards do not show some data
– **PI08356** - `Logon.jsp` is not secured on HTTPS mode
– **PI09353** - Argus® jars update for Remove Users and Groups
– **PI09600** - The help pages for the connections help page do not show in French (Canadian)
– **PI10421** - Thousands of `ISC_STORES_BACKUP` zip files created on startup
– **PI10585** - Extra white space around WebGUI portlets around freeform pages
• IBM Tivoli Integrated Portal 2.2.0.11:
– **PM71594** - Resizing AEL vertically does not work
– **PM71820** - WSTEMP directory is filling up in IBM Tivoli Integrated Portal
– **PM72678** - Wrong header on the Change Password page
– **PM73016** - Applets always load in front in freeform page
– **PM74278** - Unable to display pages created with slider in IBM Tivoli Integrated Portal version 2.2.0.7
– **PM75575** - Tivoli Network Performance Manager 1.3.2 help link not created properly
– **PM75865** - User gets CTGTD1000E error when attempting to create a chart widget
– **PM76916** - Corrupt `IBM-PORTAL-TOPOLOGY.XML` file causes application deployment steps to fail
– **PM77092** - Need to be able to disable the autocomplete in the WebGUI login page
– **PM78738** - The label for the **Users and Groups** task in Tivoli Integrated Portal shows up as `COM.IBM.WIM.MANAGEMENT.NAVIGATIONELEMENT.WIM.TITLE`
– **PM79026** - Failure to expand policy objects in Admin Center

- **PM80785** - Security vunerability: Scope of HTTP request variables not enforced
- IBM Tivoli Integrated Portal 2.2.0.9:
  - **PM58383** - Portlet being displayed is very narrow
  - **PM58540** - WebSphere Application Server APAR TO ship interim fix for APAR IZ87984 ON ZLIN64 6.0 SR9 FP1
  - **PM63373** - Argus policy files corruption in a clustered environment
  - **PM64854** - The presence of Tivoli Integrated Portal pages containing custom portlets prevents
  - **PM64966** - IBM Tivoli Integrated Portal 2.2.0.7 installation fails on available memory prerequisite check
  - **PM65487** - Imported System generated pages do not end up in the intended folder on the target Tivoli Integrated Portal server
  - **PM65631** - After exiting screens in the portlet editing menu (for example, personalize and edit shared settings) AEL is minimized
  - **PM66027** - `Navigation.xml` gets corrupted and users cannot login to IBM Tivoli Integrated Portal
  - **PM66220** - CWLAA6003: Could not display the portlet at this time, the portlet module may be being updated
  - **PM66632** - `HTTP RESPONSE CODE: 505` errors on import
  - **PM66871** - Sort order lost in IBM Tivoli Integrated Portal view drop-down after IBM Tivoli Integrated Portal import
  - **PM67382** - IBM Tivoli Integrated Portal role assignment not working for some users
  - **PM67942** - iFix issues with WebGui 7.3.1.4
  - **PM68209** - Update Argus files that were modified for T-Systems
  - **PM68961** - Update `iehs.war` that IBM Tivoli Integrated Portal uses under `isc.ear` for security vulnerability
  - **PM69077** - `IDMAP.XML` gets out of synch
  - **PM69600** - `admin-authz.xml` not being updated with WebSphere Application Server admin roles
  - **PM70661** - `tipcli` hardcoded to use localhost
  - **PM72776** - Cross frame scripting vulnerability
  - **PM73923** - Bundling eWAS 7.0.0.23
- IBM Tivoli Integrated Portal 2.2.0.5:
  - **PM52135** - Execution of scripts in `SMUtils.js`(DelayedRunscripts) causes stack overflow
  - **PM52914** - Unable to save changes to Web Widget page with non-English locale
  - **PM53123** - Session time out message is displayed for new login
  - **PM53928** - Tivoli Integrated Portal Change Password portlet displaying success message for error
  - **PM54251** - The fix for PM54251 expects that a fresh export be done always
  - **PM54333** - Page Order after Import is not correct
  - **PM54980** - Logging out of an invalid session does not destory the session
  - **PM56341** - Users with no role are able to login to Tivoli Integrated Portal Version 2.2
  - **PM56529** - Rapidly changing currentPage cause NPE

- **PM56777** - Error 500 on logout
- **PM56774** - Error 500 displayed in content area when response already committed
- **PM57391** - Handle quick page launches , avoid NPE
- **PM57573** - `tipcli` export getting duplicate entries
- **PM57619** - All authenticated users are able to login to IBM Tivoli Integrated Portal
- **PM58398** - MergeRoles issue
- **PM58585** - Duplicate page entries created when importing pages within subfolders
- **PM59093** - Unable to navigate to any custom views because of default `ibm-portal-topology.xml` being used.

- IBM Tivoli Integrated Portal 2.2.0.3:
  - **PM34540** - ITM webservice does not fetch charts from ITM when SSL is enabled in ITM
  - **PM37499** - Preupgreade script fails when not using the default certificates
  - **PM37773** - Page Define Resource Viewdoes not remember its portlets sizes if opened automatically after login
  - **PM40211** - Error `CWLAA6003` is occurring when searching for users
  - **PM40403** - Invalid unique name exception with `upgrade.sh`

Chapter 3. Installing Tivoli Integrated Portal 2.2.0.17 fix pack

Tivoli Integrated Portal 2.2.0.17 fix pack can be installed at the command line in silent mode with a response file.

Tivoli Integrated Portal 2.2.0.17 fix pack installation files can be downloaded from IBM Support Fix Central at: http://www-933.ibm.com/support/fixcentral/options?selectionBean.selectedTab=find&selection=ibm%2fTivoli%3bibm%2fTivoli%2fTivoli+Integrated+Portal

You must download `2.2.0-TIV-TIP-FITSuit-FP0017.zip` and `2.2.0-TIV-TIP-OSplatform-FP0017.zip`, where *OSplatform* reflects the operating system and platform architecture (32 bit or 64 bit).

Important: This fix pack is installed in a Tivoli Integrated Portal Version 2.2 environment only.

Important: The fix pack is available in both 32-bit and 64-bit versions for some operating systems. Ensure that your fix pack media matches that of the installed Tivoli Integrated Portal Version 2.2 instance regarding operating system and platform (32 bit or 64 bit).

Important: If you are installing the fix pack into a Tivoli Integrated Portal environment that uses a base (non-embedded) version of WebSphere Application Server, you must install WebSphere Application Server Update Installer UPDI) before you install the fix pack. For details on how to install UPDI, see: http://www-01.ibm.com/support/knowledgecenter/SS7JFU_7.0.0/com.ibm.websphere.installation.express.doc/info/exp/ae/tins_updi_install.html

Important: **Windows** For systems that are running Microsoft Windows Server 2008, or Microsoft Windows Server 2008 R2, ensure that you have at least 2.5 GB of free space in your installation location.

Additionally, the following requirements and restrictions must be considered when you install this fix pack:

- WebSphere Application Server Version 7.0 (7.0.0.39) or later. WebSphere Application Server hardware and software requirements apply, for more information, see http://www-01.ibm.com/support/knowledgecenter/SS7JFU_7.0.0/com.ibm.websphere.installation.express.doc/info/exp/ae/rtop_reqs.html
- Ensure that you have installed the IBM version of Java Runtime Environment (JRE) 1.6.0 and that there is at least 500 MB of memory available in the `temp` directory for the installation process.
- Before you install the fix pack, you must stop any Tivoli Integrated Portal related Java processes that are running on your system.

  Tip:

  Linux **UNIX** Use the **ps** command to view details of the Java processes that are running.

Windows Use a services utility to view the paths that are associated with each Java process.

After the installation, the Tivoli Integrated Portal administrator and any registered users can log in to the Tivoli Integrated Portal by entering the URL in a browser. For example, if you installed using default port numbers, you can access the console using the following web address:

- http://localhost:16310/ibm/console

Note: Fix pack installation logs are saved to `TIPFPInstaller-xx.log` in the `ia` directory that is contained in the following compressed file archive: `tip_home_dir/22_FP17.logs.zip`.

Installing Tivoli Integrated Portal 2.2.0.17 fix pack in silent mode

The Tivoli Integrated Portal 2.2.0.17 fix pack silent installation uses a response file that is included with your fix pack media that you can edit as needed.

Before you begin

Download and extract the Tivoli Integrated Portal 2.2.0.17 fix pack installation files that are available from IBM Support Fix Central at: http://www-933.ibm.com/support/fixcentral/options?selectionBean.selectedTab=find&selection=ibm%2fTivoli%3bibm%2fTivoli%2fTivoli+Integrated+Portal

You must download two files:

- Fix Pack Intelligence Tool: `2.2.0-TIV-TIP-FITSuit-FP00017.zip`

  Download and extract this file to the following directory associated with your existing Tivoli Integrated Portal 2.2.0.x environment: `tip_home_dir/profiles/TIPProfile/etc`

- Tivoli Integrated Portal 2.2.0.17 fix pack installation package: `2.2.0-TIV-TIP-OSplatform-FP00017.zip`. Where *OSplatform* reflects the operating system and platform architecture (32-bit or 64-bit).

  Download and extract the relevant file for the system that is running your existing Tivoli Integrated Portal instance to a directory of your choosing.

  For example, if your system is running a 64-bit version of HP-UX, you must download and extract `2.2.0-TIV-TIP-HPUX64-FP0017.zip`

  Note: The Tivoli Integrated Portal 2.2.0.17 fix pack installation package includes a `Readme.txt` that provides guidance when you install the fix pack.

When you install Tivoli Integrated Portal 2.2.0.17 fix pack in a load balanced environment, you must remove all nodes from the cluster and install the fix pack on each node separately. After all nodes are updated, you can rejoin the nodes to the cluster. For more information on joining and removing nodes, see:

- http://www-01.ibm.com/support/knowledgecenter/SS5PMD_2.2.0/com.ibm.tip.doc/ttip_config_ha_unjoin.html
- http://www-01.ibm.com/support/knowledgecenter/SS5PMD_2.2.0/com.ibm.tip.doc/ttip_config_ha_join.html

  Important: Step 5 in the http://www-01.ibm.com/support/knowledgecenter/SS5PMD_2.2.0/com.ibm.tip.doc/ttip_config_ha_join.html topic erroneously

indicates that you must use the `configHA` option in the command instead of the `join` option. The correct option to run in `tip_home_dir`/profiles/TIPProfile/bin/ha is as follows:

```
..\ws_ant.sh|bat -f install.ant join -Dusername=DB2_username
-Dpassword=DB2_password
```

Important: When you are installing the fix pack on an HP Integrity (Itanium) 64-bit server that is running HP-UX, before you start, as `root`, you must clear the contents of `/var/tmp`.

About this task

The fix pack silent installation proceeds automatically, using the settings as they are specified in a response file (for example, `sample_response.txt`). Before you run the installation, edit this file to specify the choices and values to be used by the fix pack silent installer. The response file can be reused on other computers where you want the same type of fix pack installation. In these steps, be sure to provide the complete (absolute) path of the response file for the silent installer. Otherwise, the installer does not find the response file and the installation fails.

Restriction: Windows On systems that are running Windows, the file path to your fix pack installation files must be composed of fewer than 40 characters. For example, if the path to your installation files is `image_dir`\cdimage.fixpack, then the path that is represented by the variable *image_dir* must be composed of fewer than 40 characters.

Procedure

1. Open your response file in a text editor (for example, `sample_response.txt`) and review the configuration settings. Edit as needed, then save and close the file.

   Important: Ensure that you provide the correct Tivoli Integrated Portal administrator ID and password in the response file, that is, the administrator ID and password that is associated with the existing Tivoli Integrated Portal 2.2.0.*x* installation.

   Restriction: The value that you provide for **IAGLOBAL_TIP_HOME** in the response file is case-sensitive and it must exactly match the path to the existing Tivoli Integrated Portal instance (or WebSphere Application Server instance, where you are installing into a base WebSphere Application Server environment).

2. At the command line, change to directory that contains your response file.

3. Run the following command:

   - UNIX   Linux `./install.sh -i silent -f full_path_to_response_file`
   - Windows `install.bat -i silent -f full_path_to_response_file`

   Where:

   full_path_to_response_file is the absolute path to the location of the response file (for example, `C:\cdimage\sample_response.txt`).

   Ensure that you enter escape characters the way that Java properties expect them. Non-text characters must be UTF-8 escaped (such as \u0022 for the " (double quotation mark) character.

What to do next

The passwords entered in the response file can be seen by anyone who reads the file. When you are done using this file, delete it or move it to a secure place to keep passwords secure.

Silent mode response file parameters for fix packs

The passwords entered in the response file can be seen by anyone who reads the file. When you are done using this file, delete it or move it to a secure place to keep passwords secure.

INSTALLER_UI=SILENT
> This parameter indicates that Tivoli Integrated Portal is to be installed in silent mode and it should not be altered.

IAGLOBAL_TIP_HOME=*tip_home_dir*

> **Restriction:** The value for **IAGLOBAL_TIP_HOME** is case sensitive and it must agree with the path for the existing Tivoli Integrated Portal instance.
> - If the existing Tivoli Integrated Portal 2.2.0.*x* instance is not associated with a WebSphere Application Server base installation, specify the location of the existing Tivoli Integrated Portal 2.2.0.*x* instance. The default directory provided is:
>   - `Linux` `UNIX` /opt/IBM/tivoli/tipv2
>   - `Windows` C:\\IBM\\tivoli\\tipv2. The \ backslash is seen as an escape character. Use \\ two backslashes when defining the path.
> - If the existing Tivoli Integrated Portal instance is associated with a WebSphere Application Server base installation, you must specify the location of the WebSphere Application Server base installation. For example:
>   - `Linux` `UNIX` /opt/IBM/WebSphere/AppServer
>   - `Windows` C:\\IBM\\WebSphere\\AppServer. The \ backslash is seen as an escape character. Use \\ two backslashes when defining the path.

IAGLOBAL_WASUserID=*tip_admin_ID*
IALOCAL_WASPassword=*tip_admin_password*
> These parameters are for defining the administrator ID for the application server profile. The values that you provide for **IAGLOBAL_WASUserID** and **IALOCAL_WASPassword** must match the administrator ID and password associated with the existing Tivoli Integrated Portal 2.2.0.*x* installation.

IAGLOBAL_UPDI_HOME_31=*UPDI_home_dir*

> **Important:** This setting is for advanced users and typically no path need be specified.
> To specify a custom path, uncomment the parameter by removing the hash character (#) preceding it and providing a custom path to an instance of the Update Installer for WebSphere Application Server. If the specified version does not match the required version, the installation will not succeed.

IAGLOBAL_enableOSPrereqChecking=false

> **Important:** This setting is for advanced users and typically you can accept the default setting (false).
> This parameter, when set to true enables operating system prerequisite checking, and allows the installation to continue and log warnings even if prerequisite checking fails.

IAGLOBAL_COI_SELECTED_LOGICAL_COMPONENTS=Common,TIPFinal
> This parameter indicates which components are to be installed. You must at least include the default values (`Common,TIPFinal`). Ensure that the additional components are available to the installer at `cdimage/COI/PackageSteps`. For example, to install the BIRTExtension component enter a value of `Common,TIPFinal,BIRTExtension`.

IAGLOBAL_LOCALE=en
> This parameter indicates the locale of the resource bundle for the installation.

Uninstalling Tivoli Integrated Portal

Uninstall Tivoli Integrated Portal when you no longer need it on a computer.

Important: WebSphere Application Server fix packs and interim fixes are not removed when you uninstall Tivoli Integrated Portal.

Important: If you are uninstalling Tivoli Integrated Portal as a non-administrative user and you previously installed this instance of Tivoli Integrated Portal into an existing Tivoli Integrated Portal environment that had been installed by an administrative user, you may see the following error in the log files:

```
Caused by: com.ibm.ac.si.install.InstallUnauthorizedException: ACUINI0040W
User, user_ID, does not have proper authority!
```

In this particular circumstance, the error message may be ignored and no further action is required.

Uninstalling a fix pack in silent mode

Use the silent uninstaller to roll back Tivoli Integrated Portal to its state before the fix pack was installed.

About this task

The silent mode fix pack uninstaller rolls back an instance of Tivoli Integrated Portal to its state prior to installing the fix pack. Normally, you would uninstall a fix pack immediately after installing it in cases where the installation proved problematic. Uninstalling a fix pack after using the updated Tivoli Integrated Portal for a prolonged period may result in the loss of a significant amount of data. This uninstallation mode uses a response file (for example, `uninstall_response.txt`). The file has a number of parameters:

- **IAGLOBAL_WASUserID=tipadmin** - This is the administrator's user ID.
- **IALOCAL_WASPassword=mypassword** - This is the administrator's password.

To uninstall Tivoli Integrated Portal in silent mode:

Procedure

1. From the command line, change to the following directory:
   tip_home_dir/_uninst/TIPInstall22017
2. Enter this command:
   - `UNIX` `Linux` `./uninstall.sh -i silent -f` *full_path_to_response_file*
   - `Windows` `uninstall.bat -i silent -f` *full_path_to_response_file*

Restriction: After uninstalling the fix pack, due to a caching performance enhancement added in Tivoli Integrated Portal 2.2.0.3, it is strongly recommended that you clear your browser's cache before logging back into the portal.

3. After the process is complete, delete the *tip_home_dir* branch from the **tivoli** directory (such as `/opt/IBM/` or `C:\IBM\`) if it still remains and there are no previously installed applications in that branch that you want to keep.

Chapter 4. Security auditing Tivoli Integrated Portal

Tivoli Integrated Portal provides a CLI to enable security auditing. You can capture and maintain audit controls for your environment.

Tivoli Integrated Portal auditing uses functions that were introduced in WebSphere Application Server Version 7.0.

The primary responsibility of the security infrastructure is to prevent unauthorized access and usage of resources. Security auditing achieves these goals by providing the infrastructure to implement your code to capture and store supported auditable security events. Each time a Tivoli Integrated Portal application or user accesses a secured resource, any internal application server process records an auditable event. The security system captures the following types of auditable events:

- Authentication
- Authorization

These events are saved to audit log files, which are binary text-file based files. Each audit log can be signed and encrypted to ensure data integrity. The audit log files can be analyzed to discover breaches over the existing security mechanisms and to discover potential weaknesses in the current security infrastructure.

Security event audit records are also useful for providing evidence of accountability and nonrepudiation, and for vulnerability analysis. The security auditing configuration provides four default filters, a default audit service provider, and a default event factory.

Enabling or disabling security auditing

Use this procedure to enable security auditing in Tivoli Integrated Portal.

About this task

Tivoli Integrated Portal provides a script to enable security auditing. To enable security auditing:

Procedure

1. At the command line, change to *tip_home_dir*/profiles/TIPProfile/bin
2. Depending on your operating system, run one of the following commands:
   - **Linux** **UNIX** `confgureTIPAudit.sh -tipadmin_user_name -tipadmin_password true|false`
   - **Windows** `confgureTIPAudit.bat -tipadmin_user_name -tipadmin_password true|false`

   Where:
   - *tipadmin_user_name* is the user ID for the Tivoli Integrated Portal.
   - *tipadmin_password* is the password that is associated with the administrator user ID.
   - Specify `true` to enable security auditing.
   - Specify `false` to disable security auditing.

3. For the changes to take effect, stop and restart all Tivoli Integrated Portal server instances.

Results

When you enable security auditing, a log file that is named `BinaryAudit_TIPCell_TIPNode_server1.log` is created in *tip_home_dir*`/profiles/TIPProfile/logs/server1` directory.

What to do next

The audit log file can be encrypted to protect the audit data. For more information, refer to the following WebSphere Application Server IBM Knowledge Center topic: http://www-01.ibm.com/support/knowledgecenter/SSAW57_7.0.0/com.ibm.websphere.nd.doc/info/ae/ae/tsec_sa_audrecencrypt.html

Chapter 5. Serviceability features

A number of serviceability features are provided.

`tipcli` cleanup commands for roles

Use the `tipcli` cleanup commands to remove specified roles from particular users or groups when standard deletion methods fail.

The `tipcli` cleanup commands are run from the *tip_home_dir*/profiles/ TIPProfile/bin directory.

Listing orphaned role mappings

Use the `ListOrphanedRoleMappings` command option to list orphaned role mappings.

Syntax:

- � Linux ▐ UNIX ▐ `./tipcli.sh ListOrphanedRoleMappings --username` *tipadmin_user_name* `--password` *tipadmin_pasword*
- ▐ Windows ▐ `tipcli.bat ListOrphanedRoleMappings --username` *tipadmin_user_name* `--password` *tipadmin_pasword*

Where:

- *tipadmin_user_name* is an administrator user ID for the Tivoli Integrated Portal environment.
- *tipadmin_password* is the password that is associated with the administrator user ID.

Example:

▐ Linux ▐ ▐ UNIX ▐ `./tipcli.sh ListOrphanedRoleMappings --username adminuser --password adm1npw0rd`

Example output:

```
The role operator has 2 non-existent user mapping, which are
UID=k1, O=defaultWIMFileBasedRealm,
UID=k2, O=defaultWIMFileBasedRealm
The role chartAdministrator has 1 non-existent user mapping, which are
UID=k3, O=defaultWIMFileBasedRealm
CTGWA4017I The command completed successfully.
```

Removing orphaned role mappings

Use the `RemoveOrphanedRoleMappings` command option to remove orphaned role mappings.

Tip: Before you run this command option, run the `ListOrphanedRoleMappings` command option to list roles that can be removed, see "Listing orphaned role mappings." It is good practice to set the `--maxUsersAndGroups` parameter in the `RemoveOrphanedRoleMappings` command option to the number of orphaned roles that are returned by the `ListOrphanedRoleMappings` command option.

Important: Before you run the RemoveOrphanedRoleMappings command option, make a backup copy of the following directory:

tip_home_dir/profiles/TIPProfile/config/cells/TIPCell

Syntax:

- `Linux` `UNIX` `./tipcli.sh RemoveOrphanedRoleMappings --username` *tipadmin_user_name* `--password` *tipadmin_pasword* `--maxUsersAndGroups` *num_of_roles_returned_by_ListOrphanedRoleMappings*
- `Windows` `tipcli.bat RemoveOrphanedRoleMappings --username` *tipadmin_user_name* `--password` *tipadmin_pasword* `--maxUsersAndGroups* *num_of_roles_returned_by_ListOrphanedRoleMappings*

Where:

- *tipadmin_user_name* is an administrator user ID for the Tivoli Integrated Portal environment.
- *tipadmin_password* is the password that is associated with the administrator user ID.
- *num_of_roles_returned_by_ListOrphanedRoleMappings* is the maximum number of roles to be removed. It is good practice to set this parameter to the numbers of roles that are returned by the `ListOrphanedRoleMappings` command option.

Example:

`Linux` `UNIX` `./tipcli.sh RemoveOrphanedRoleMappings --username adminuser --password adm1npw0rd --maxUsersAndGroups 3`

Example output:

```
Looking for the role mapping with non-existent user/group...
Remove the user mapping UID=k1, O=defaultWIMFileBasedRealm
from the role operator
Remove the user mapping UID=k2, O=defaultWIMFileBasedRealm
from the role operator
Remove the user mapping UID=k3, O=defaultWIMFileBasedRealm
from the role chartAdministrator
CTGWA4017I The command completed successfully.
```

Removing roles from a user

Use the `RemoveRolesFromUserNoValidation` command to remove specified roles from a specified user.

Syntax:

- `Linux` `UNIX` `./tipcli.sh RemoveRolesFromUserNoValidation --username` *tipadmin_user_name* `--password` *tipadmin_pasword* `--userID` *userID* `--rolesList` *role_name1, role_name2*
- `Windows` `tipcli.bat RemoveRolesFromUserNoValidation --username` *tipadmin_user_name* `--password` *tipadmin_pasword* `--userID` *userID* `--rolesList` *role_name1, role_name2*

Where:

- *tipadmin_user_name* is an administrator user ID for the Tivoli Integrated Portal environment.
- *tipadmin_password* is the password that is associated with the administrator user ID.

- *userID* is the full unique user ID as it appears in the security policy files.
- *role_name1, role_name2* is a comma-separated list of roles that you want disassociate from the specified user ID.

Example:

<code>Linux</code> <code>UNIX</code> `./tipcli.sh RemoveRolesFromUserNoValidation --username adminuser --password adm1npw0rd --userID uid=user1,o=defaultWIMFilebasedRepository --rolesList iscadmins,operator`

Removing roles from a group

Use the `RemoveRolesFromGroupNoValidation` command to remove specified roles from a specified group.

Syntax:
- <code>Linux</code> <code>UNIX</code> `./tipcli.sh RemoveRolesFromGroupNoValidation --username` *tipadmin_user_name* `--password` *tipadmin_pasword* `--groupID` *groupID* `--rolesList` *role_name1, role_name2*
- <code>Windows</code> `tipcli.bat RemoveRolesFromGroupNoValidation --username` *tipadmin_user_name* `--password` *tipadmin_pasword* `--groupID` *groupID* `--rolesList` *role_name1, role_name2*

Where:
- *tipadmin_user_name* is an administrator user ID for the Tivoli Integrated Portal environment.
- *tipadmin_password* is the password that is associated with the administrator user ID.
- *groupID* is the full unique group ID as it appears in the security policy files.
- *role_name1, role_name2* is a comma-separated list of roles that you want disassociate from the specified group ID.

Example:

<code>Linux</code> <code>UNIX</code> `./tipcli.sh RemoveRolesFromGroupNoValidation --username adminuser --password adm1npw0rd --groupID gid=group1,c=us,o=ibm --rolesList iscadmins,administrator`

Fixing Tivoli Integrated Portal configuration

Use the `FixConfiguration` command to check for and optionally rectify Tivoli Integrated Portal configuration problems.

Procedure
1. At the command line change to: *tip_home_dir*`/profiles/TIPProfile/bin`
2. Depending on your operating system, run one of the following commands:
   - <code>Linux</code> <code>UNIX</code> `./tipcli.sh FixConfiguration --username` *tipadmin_user_name* `--password` *tipadmin_pasword* `--checkonly true|false`
   - <code>Windows</code> `tipcli.bat FixConfiguration --username` *tipadmin_user_name* `--password` *tipadmin_pasword* `--checkonly true|false`

   Where:
   - *tipadmin_user_name* is an administrator user ID for the Tivoli Integrated Portal environment, with a user role of *iscadmins*.

- *tipadmin_password* is the password associated with the administrator user ID.
- For the `checkonly` parameter:
  - Specify `true` to check the Tivoli Integrated Portal configuration.
  - Specify `false` to check and fix the Tivoli Integrated Portal configuration.
3. For the changes to take effect, stop, and restart all Tivoli Integrated Portal server instances.

Using the Problem Determination utility

Use the Problem Determination utility to collect data about the Tivoli Integrated Portal environment and generate a log file.

Procedure
1. At the command line change to: *tip_home_dir*`/profiles/TIPProfile/bin`
2. Depending on your operating system, run one of the following commands:
   - `Linux` `UNIX` `./ws_ant.sh -f tippdcollect.ant`
   - `Windows` `ws_ant.bat -f tippdcollect.ant`
3. Read the returned instructions and enter the component number for the problematic item.
4. When prompted, provide Tivoli Integrated Portal administrator username and password details.
   A log file is created in *tip_home_dir* that can be used in relation to diagnosing problems that may have been identified in the Tivoli Integrated Portal environment.

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19

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Index

A
APARs 3

C
configuration
   FixConfiguration command 17
   Problem Determination utility 18

F
fix pack silent installation 8, 13

I
install 10
   remove by silent mode 11
installation
   fix pack 7, 8, 13
   silent 8, 13

O
overview 1, 13

R
response file parameters 10

S
serviceability features 15
silent 10

T
tipcli
   cleanup commands 15

U
uninstall 11

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