IBM Security Guardium Cloud Deployment for Amazon AWS

Technical Note
Guardium v11.1

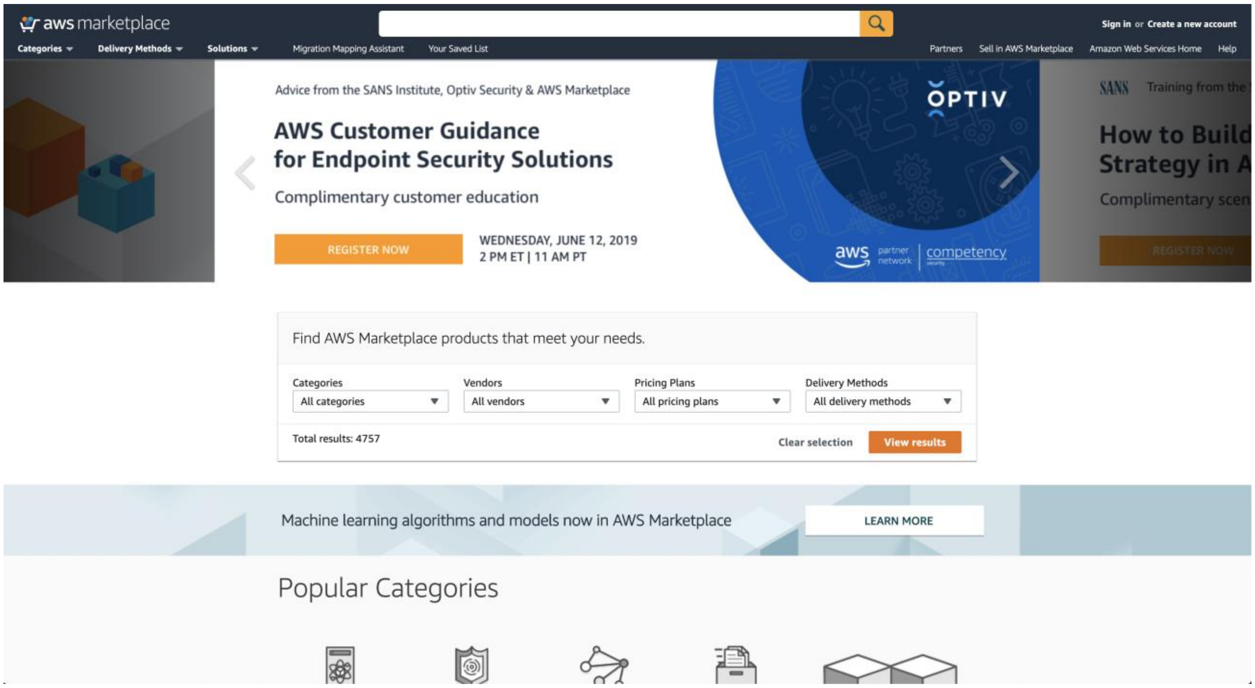
IBM Security Guardium Cloud Deployment Guide for Amazon AWS

Introduction

Guardium instances can be deployed on AWS in one of two ways. You can deploy either from the marketplace or from Guardium specific Amazon Machine Images (AMIs).

Method 1: Deploying from the Marketplace

1. Navigate to the AWS Marketplace: https://aws.amazon.com/marketplace



Advice from the SANS Institute, Optiv Security & AWS Marketplace

AWS Customer Guidance for Endpoint Security Solutions

Complimentary customer education

WEDNESDAY, JUNE 12, 2019
2 PM ET | 11 AM PT

Training from the

How to Build Strategy in A

Complimentary scen

Find AWS Marketplace products that meet your needs.

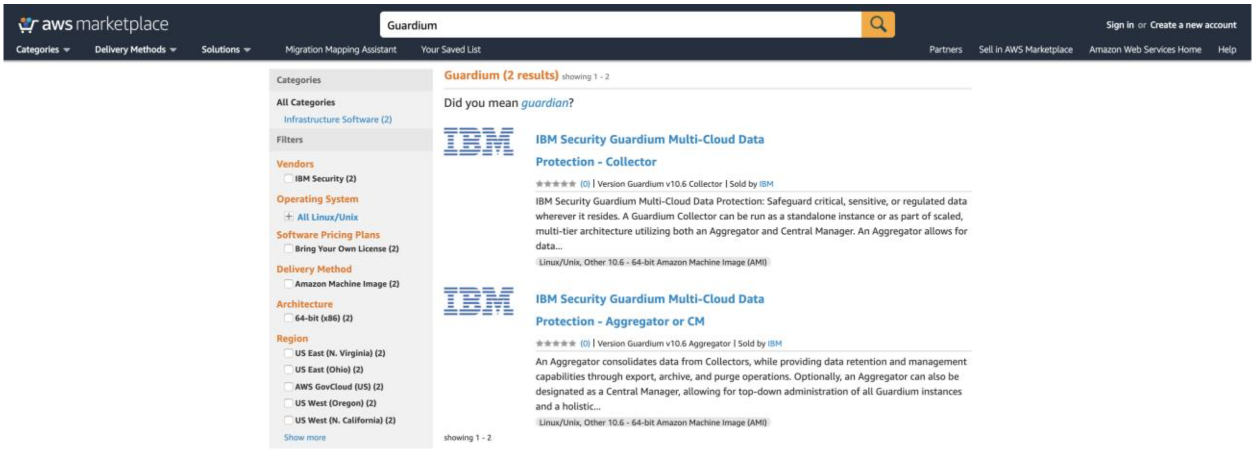
Categories: All categories
Vendors: All vendors
Pricing Plans: All pricing plans
Delivery Methods: All delivery methods

Total results: 4757

Machine learning algorithms and models now in AWS Marketplace

Popular Categories

2. Search for Guardium.



Guardium (2 results) showing 1 - 2

Did you mean *guardian*?

IBM Security Guardium Multi-Cloud Data Protection - Collector

(0) | Version Guardium v10.6 Collector | Sold by IBM

IBM Security Guardium Multi-Cloud Data Protection: Safeguard critical, sensitive, or regulated data wherever it resides. A Guardium Collector can be run as a standalone instance or as part of scaled, multi-tier architecture utilizing both an Aggregator and Central Manager. An Aggregator allows for data...

Linux/Unix, Other 10.6 - 64-bit Amazon Machine Image (AMI)

IBM Security Guardium Multi-Cloud Data Protection - Aggregator or CM

(0) | Version Guardium v10.6 Aggregator | Sold by IBM

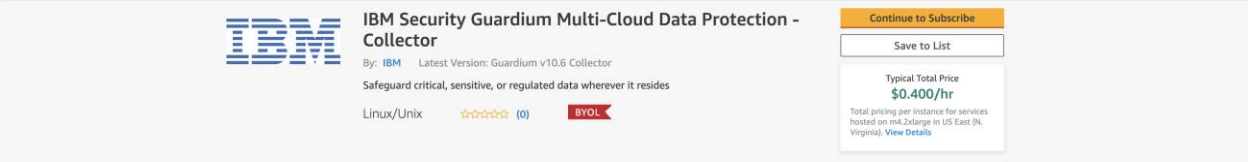
An Aggregator consolidates data from Collectors, while providing data retention and management capabilities through export, archive, and purge operations. Optionally, an Aggregator can also be designated as a Central Manager, allowing for top-down administration of all Guardium instances and a holistic...

Linux/Unix, Other 10.6 - 64-bit Amazon Machine Image (AMI)

showing 1 - 2

3. Click on the IBM Security Guardium Collector or the IBM Security Guardium Aggregator offering.

4. Click Continue to Subscribe to subscribe to the offering.



IBM Security Guardium Multi-Cloud Data Protection - Collector

By: IBM Latest Version: Guardium v10.6 Collector

Safeguard critical, sensitive, or regulated data wherever it resides

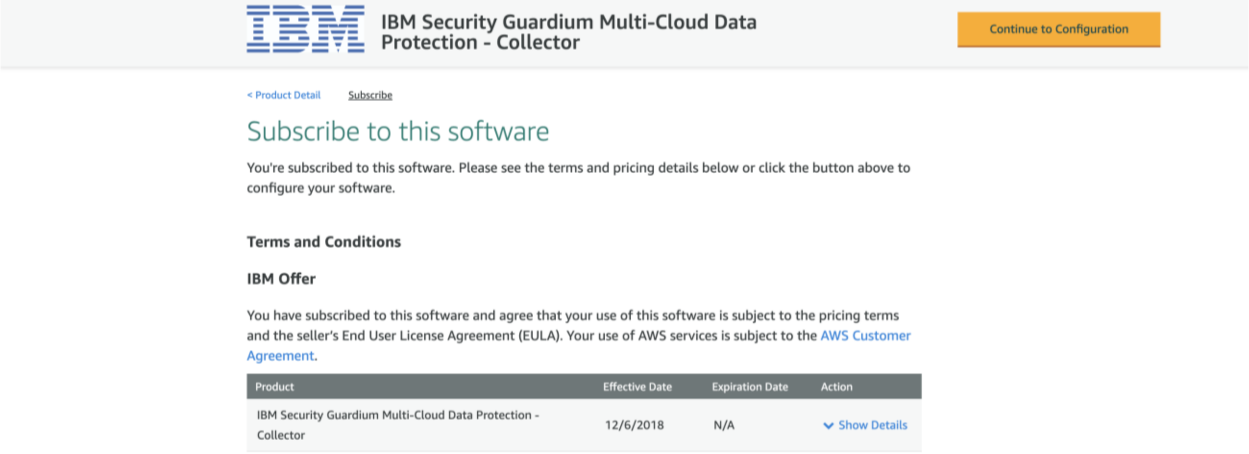
Linux/Unix (0)

Typical Total Price
$0.400/hr
Total pricing per instance for services hosted on m4.2xlarge in US East (N. Virginia). View Details

5. You are prompted to log into your AWS account if not logged in already

6. Review the terms and conditions.

7. Click Continue to Configuration.



IBM Security Guardium Multi-Cloud Data Protection - Collector

Subscribe to this software

You're subscribed to this software. Please see the terms and pricing details below or click the button above to configure your software.

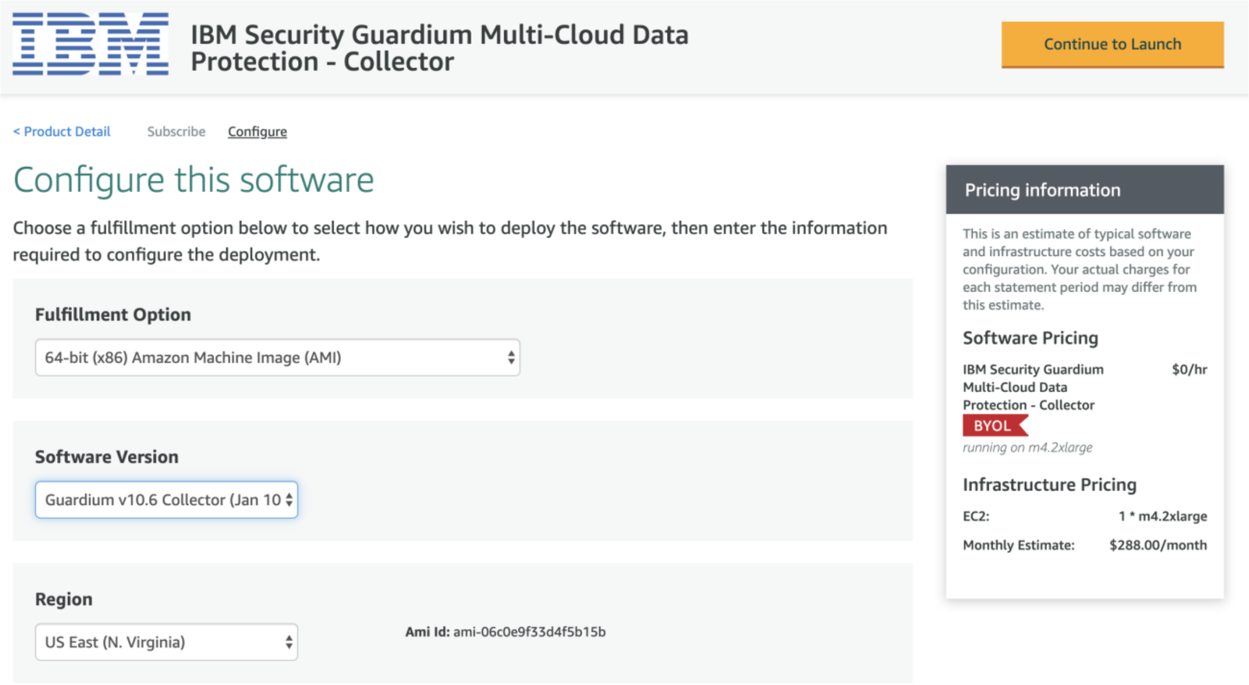
Terms and Conditions

IBM Offer

You have subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement (EULA). Your use of AWS services is subject to the AWS Customer Agreement.

Product	Effective Date	Expiration Date	Action
IBM Security Guardium Multi-Cloud Data Protection - Collector	12/6/2018	N/A	Show Details

8. Review the fulfillment option and then click Continue to Launch.



IBM Security Guardium Multi-Cloud Data Protection - Collector

Configure this software

Choose a fulfillment option below to select how you wish to deploy the software, then enter the information required to configure the deployment.

Fulfillment Option

64-bit (x86) Amazon Machine Image (AMI)

Software Version

Guardium v10.6 Collector (Jan 10

Region

US East (N. Virginia)

Ami Id: ami-06c0e9f33d4f5b15b

Pricing information

This is an estimate of typical software and infrastructure costs based on your configuration. Your actual charges for each statement period may differ from this estimate.

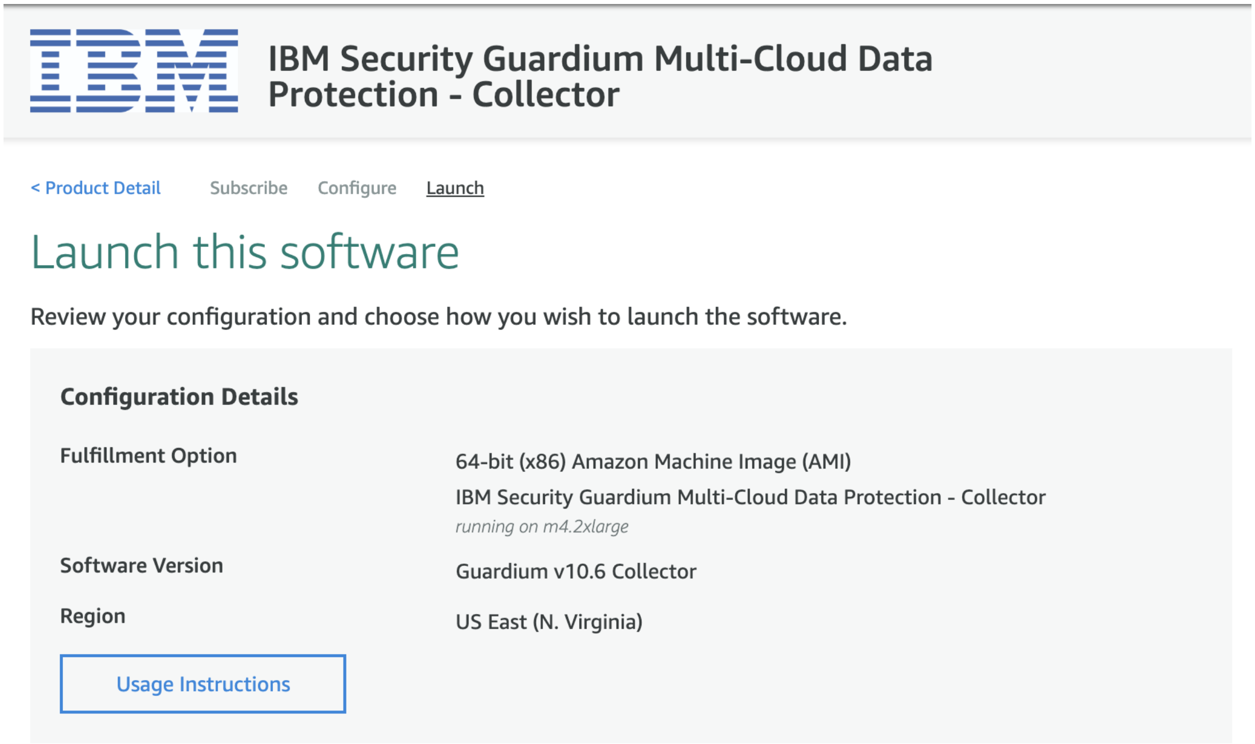
Software Pricing

IBM Security Guardium Multi-Cloud Data Protection - Collector BYOL *running on m4.2xlarge*	$0/hr

Infrastructure Pricing

EC2:	1 * m4.2xlarge
Monthly Estimate:	$288.00/month

9. Click Usage Instructions to review the instructions.



IBM Security Guardium Multi-Cloud Data Protection - Collector

Launch this software

Review your configuration and choose how you wish to launch the software.

Configuration Details

Fulfillment Option	64-bit (x86) Amazon Machine Image (AMI) IBM Security Guardium Multi-Cloud Data Protection - Collector *running on m4.2xlarge*
Software Version	Guardium v10.6 Collector
Region	US East (N. Virginia)

10. Choose to launch the software from the Website or EC2.

    Note: You can also opt to copy the Guardium offering to your AWS Service Catalog to manage your organization’s cloud resources

11. Choose an EC2 Instance Type

    Note: Guardium recommends that you configure instances as described in IBM Guardium System Requirements and Supported Platforms..

12. Configure VPC settings.
13. Configure Subnet settings.

    Note: By default, a public IP address is associated with the instance on deployment. To prevent this, modify the subnet settings in EC2 in order to disable auto-assign IP settings

14. Configure your security group settings

    Note: Specify ports 22 and 8443 on launch in order to access SSH and the Guardium UI. Additional ports can be specified depending on user needs. For port requirements, see Guardium Port Requirements.

15. Configure Key Pair settings.

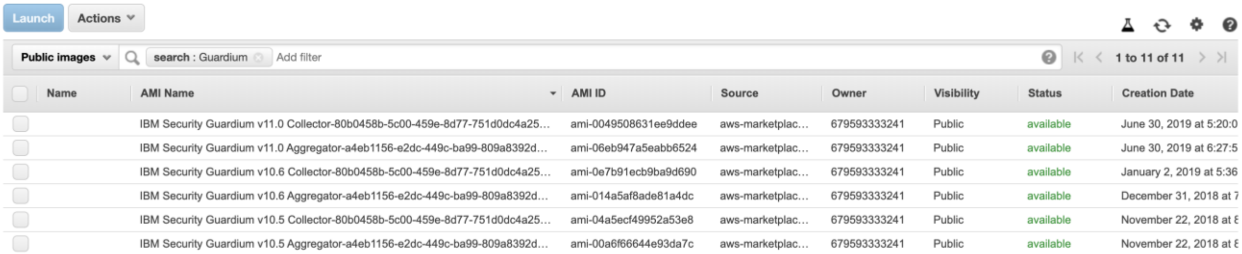
    Note: Access to Guardium instances is limited to using a EC2 key pair. Password based authentication is not supported

16. Click Launch to launch your Guardium instance.

Method 2: Deploying from an Amazon Machine Image (AMI)

The official Guardium AMIs are listed publicly and are accessible to all other AWS accounts. To access the images, go to the AMIs page and search for “Guardium”.

1. Log in to the AWS EC2 console page at https://console.aws.amazon.com/ec2/
2. Under Images click AMIs.
3. Next to the search bar select Public Images, then search for “Guardium.”

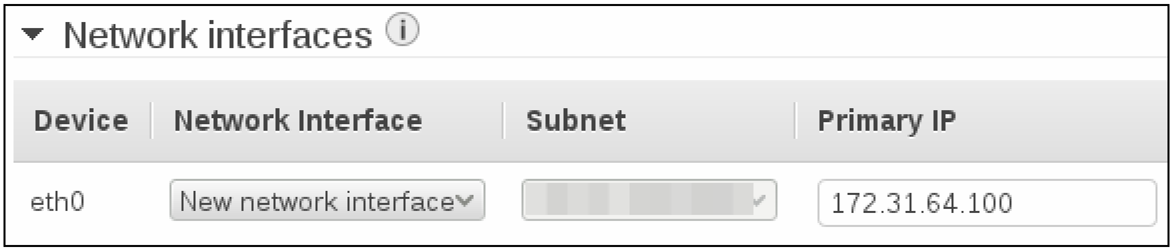


	Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date
□		IBM Security Guardium v11.0 Collector-80b0458b-5c00-459e-8d77-751d0dc4a25...	ami-0049508631ee9ddee	aws-marketplac...	679593333241	Public	available	June 30, 2019 at 5:20:0
□		IBM Security Guardium v11.0 Aggregator-a4eb1156-e2dc-449c-ba99-809a8392d...	ami-06eb947a5eabb6524	aws-marketplac...	679593333241	Public	available	June 30, 2019 at 6:27:5
□		IBM Security Guardium v10.6 Collector-80b0458b-5c00-459e-8d77-751d0dc4a25...	ami-0e7b91ecb9ba9d690	aws-marketplac...	679593333241	Public	available	January 2, 2019 at 5:36
□		IBM Security Guardium v10.6 Aggregator-a4eb1156-e2dc-449c-ba99-809a8392d...	ami-014a5af8ade81a4dc	aws-marketplac...	679593333241	Public	available	December 31, 2018 at 7
□		IBM Security Guardium v10.5 Collector-80b0458b-5c00-459e-8d77-751d0dc4a25...	ami-04a5ecf49952a53e8	aws-marketplac...	679593333241	Public	available	November 22, 2018 at 8
□		IBM Security Guardium v10.5 Aggregator-a4eb1156-e2dc-449c-ba99-809a8392d...	ami-00a6f66644e93da7c	aws-marketplac...	679593333241	Public	available	November 22, 2018 at 8

4. Select from either the Collector or Aggregator Guardium AMIs.
5. Click Launch to start the Instance creation wizard.

Create the Guardium Instance

1. On the Choose an Instance Type page select the instance size General Purpose m4.2xlarge (Guardium recommends a minimum of 4 vCPUs and 24GB RAM). Click Next to configure the instance details.
2. Next to network select a VPC.
3. Next to subnet select a subnet from the list.
4. Under Network Interfaces enter an IP address in primary IP address.



Network interfaces

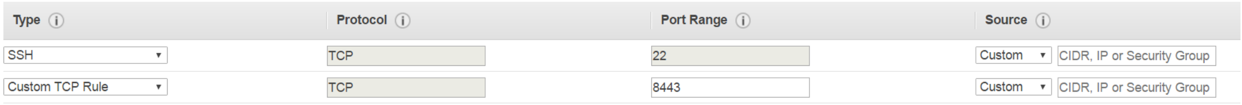
Device	Network Interface	Subnet	Primary IP
eth0	New network interface	[redacted]	172.31.64.100

5. Click Next to go to the Storage Configuration page.
6. Review the configuration for Storage, then click Next.
7. Add a tag name for the instance, then click Next to configure the Security Group.

Configure the Security Groups

1. In the Security Configuration Page click on Assign a Security Group.
2. Next to Security Group Name enter a name for the Security Group.
3. Next to Description write a short description for the Security Group.
4. Guardium uses port 8443 to connect to the web UI and port 22 to connect to the CLI. Create these 2 rules:
    a. Type: SSH, Protocol: TCP, Port Range: 22, Source: Custom
    b. Type: Custom TCP, Protocol: TCP, Port Range: 8443, Source: Custom

    Note: Guardium recommends that security group rules allow access from known IP addresses only.



Type	Protocol	Port Range	Source	
SSH	TCP	22	Custom	CIDR, IP or Security Group
Custom TCP Rule	TCP	8443	Custom	CIDR, IP or Security Group

Security Group rules can also be configured for the following on an as needed basis:

- For GIM: “tcp:8444-8446; tcp:8081”
- For FAM: “tcp:16022-16023”
- For Unix STAP: “tcp:16016-16018”
- For Windows STAP: “tcp:9500-9501”
- For Quick Search: “tcp:8983; tcp:9983”
- For MySQL: “tcp:3306”

For a complete list of ports that are used in IBM Security Guardium, see Guardium port requirements.

5. Click Review and Launch.
6. Review the configuration settings then click Launch.
7. Select the Secret Key pair from the drop-down list , then click Launch Instances.

Configuration and Settings

Once the Guardium instance is deployed, the steps below outline how to connect to the instance and how to configure the network settings.

Connect to the instance

1. Connect to the Guardium GUI: In a browser, go the URL: https://<instance-ip>:8443. The default password for admin, accessmgr, and Guardium UI users is the instance-id.
2. Connect to the CLI. From a terminal, connect via ssh to the command line interface using the private key corresponding to the public key selected when launching the instance:

```
>ssh -i /path/to/private-key cli@<ip-of-gmachine>
```

Set up the Network

1. From the EC2 > Instances page, find the values for the private IP, subnet mask, internal gateway IP and Internal FQDN of the instance, then run the following CLI network commands to configure the appliance. Answer “yes” to the question “Is it a newly cloned appliance?”..
   a. Setup the primary (eth0) IP

```
>store net interface ip <instance-ip>
```

   b. Setup the Netmask

      ```
      >store net interface mask <netmask>
      ```

   c. Setup the Gateway

      ```
      >store network route defaultroute <default-router-ip>
      ```

   d. Set the DNS resolver

      ```
      >store network resolver 1 <resolver-ip>
      ```

   e. Setup the system hostname

      ```
      >store system hostname <instance-hostname>
      ```

   f. Setup the system domain

      ```
      >store system domain <instance-domain>
      ```

2. Restart the network for all changes to take effect restart network:

   ```
   >restart network
   ```