

Tenable Vulnerability Management and Amazon Web Services Integration Guide

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Welcome to AWS for Tenable Vulnerability Management

This document describes how to deploy Tenable Vulnerability Management® for integration with Amazon Web Services.

With more than one million users, Tenable Nessus® is the world's most widely deployed vulnerability, configuration, and compliance assessment product. Tenable Nessus prevents attacks by identifying the vulnerabilities, configuration issues, and malware that hackers could use to penetrate your network. It is as important to run these assessments in AWS as it is in any other IT environment. Amazon recommends that all new and existing AWS customers scan their AWS instances while in development and operations and before publishing to AWS users. The AWS Connector provides real-time visibility and inventory of EC2 assets in AWS by querying the AWS API.

Note: To manage existing AWS connectors, see <u>Manage Connectors</u> in the *Tenable Vulnerability Management User Guide*.

Tip: For common connector errors, see Connectors in the Tenable Developer Portal.

Integration Requirements

The following are required in order to integrate Tenable Vulnerability Management with AWS:

• Tenable Vulnerability Management account

To purchase a Tenable Vulnerability Management account or set up a free evaluation, visit http://www.tenable.com/products/tenable-io.

AWS account

To create a free account, visit https://aws.amazon.com/start-now.

Internet connection

Integration Configuration

To configure AWS for Tenable Vulnerability Management, see the following integration configuration topics:

- 1. Tenable Nessus BYOL Scanner
 - a. Activate the Nessus BYOL Scanner
 - Activate Tenable Nessus BYOL Scanner via the Command Line
 - b. Copy or Regenerate Tenable Vulnerability Management Linking Key
 - c. Activate Tenable Nessus BYOL Scanner Linked to Tenable Vulnerability Management
 - <u>Link Tenable Nessus BYOL Scanner to Tenable Vulnerability Management via the</u>
 Command Line
 - d. Optional Configuration
- 2. Create a Scan
 - View Scan Results in Tenable Vulnerability Management
- 3. Audit the AWS Environment
 - AWS Audit Troubleshooting

Tenable Nessus BYOL Scanner

The following instructions describe how to configure a Tenable Nessus Bring Your Own License (BYOL) Amazon Web Services (AWS) scanner. Each section includes steps for configuring the scanner via the user interface or via the command line.

Note: For more information on advanced settings for Tenable Nessus (for example, security group configuration), see Advanced Settings in the *Tenable Nessus User Guide*.

Before you begin:

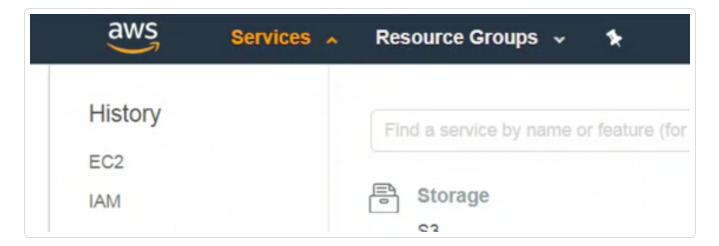
• Ensure that your system meets the <u>hardware requirements</u> described in the *Tenable Nessus* User Guide.

To configure the Nessus BYOL Scanner in AWS:

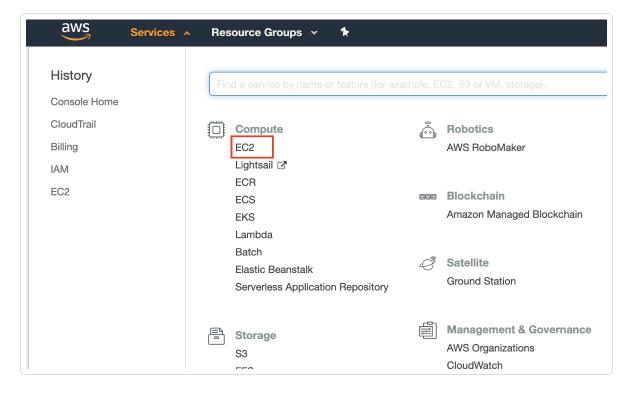
- 0
- 1. Log in to the AWS Management Console.
- 2. In the top menu bar, click **Services**.

The **Services** page appears.

Note: Amazon is continually updating their service, so screenshots may differ from the AWS interface you see.



3. In the **Compute** section, click **EC2**.

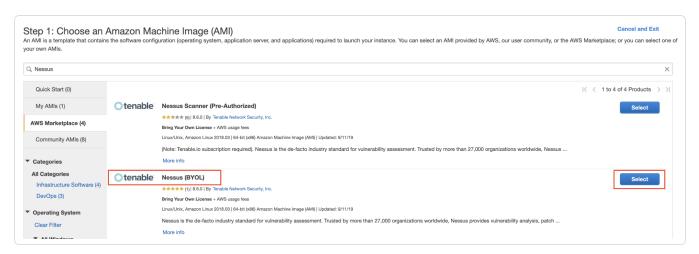


The **EC2 Dashboard** appears.

4. In the **Create Instance** section, click **Launch Instance**.

The Choose an Amazon Machine Image (AMI) page appears.

- 5. In the left panel, click AWS Marketplace.
- 6. In the search box, type **Nessus**.
- 7. On your keyboard, press **Enter**.
- 8. In the Nessus (BYOL) section, click Select.



The Nessus (BYOL) review window appears.

- 9. Review the pricing details and instance type details.
- 10. Click Continue.

The **Step 2: Choose an Instance Type** page appears.

11. Click Next: Configure Instance Details.

The **Step 3: Configure Instance Details** page appears.

12. Configure the instance details according to your company-specific preferences.

Note: Your system must also:

- Meet the hardware requirements described in the Tenable Nessus User Guide.
- Include an internet connection with which to access Tenable Vulnerability Management.

13. Click Next: Add Storage.

The **Step 4: Add Storage** page appears.

- 14. Configure the storage details according to your company-specific preferences.
- 15. Click Next: Add Tags.

The **Step 5: Add Tags** page appears.

- 16. (Optional) Configure tags according to your company-specific preferences.
- 17. Click Next: Configure Security Group.

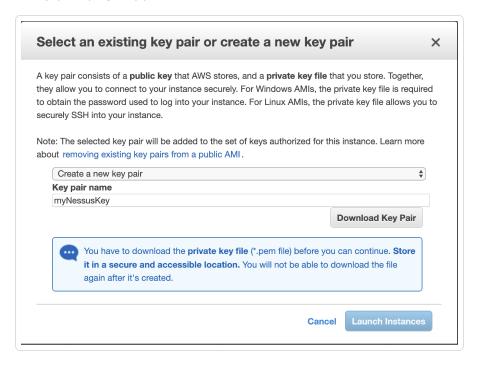
The **Step 6: Configure Security Group** page appears.

- 18. (Optional) Configure the security group details according to your company-specific preferences.
- 19. Click Review and Launch.

The **Review Instance** page appears.

20. Click Launch.

A key pair page appears.



21. Do one of the following:

- If you have access to an existing key pair, select **Choose an existing key pair**.
 - a. In the **Select a key pair** section, select the key pair you want to use.
 - b. Select the acknowledge checkbox.
- If you do not have access to an existing key pair, select Create a new key pair.
 - a. In the **Key pair name** box, type a name for the key pair.
 - b. Click **Download Key Pair**.

Tip: You need this key pair to access the Nessus Professional BYOL scanner from the command line for activation/registration. For more information, see <u>Activate Tenable Nessus BYOL Scanner via the Command Line</u>.

22. Click Launch Instances.

The **Launch Status** page appears. AWS begins a validation process for the new Nessus BYOL EC2 Instance and proceeds to pass health checks.

23. Click **View Instances** to confirm the instance appears successfully.

Note: When the status checks are complete, take note of the public IP (if applicable) of the Nessus BYOL instance. Otherwise, you need a Bastion host to access the command line to continue configuration of the Nessus BYOL Scanner.

Activate the Nessus BYOL Scanner

Before you begin:

• View the login and instance-type information in the Nessus BYOL Scanner documentation.

To activate the Tenable Nessus BYOL Scanner (Tenable Nessus Expert or Tenable Nessus Professional):

 Navigate to the Tenable Nessus user interface on Port 8834, for example, https://<NessusBYOL-IP>:8834, where <BYOLpublicIP> is the IP address of your Tenable Nessus Expert or Tenable Nessus Professional instance. The **Welcome to Tenable Nessus** page appears.

- 2. Select Tenable Nessus Expert or Tenable Nessus Professional.
- 3. Click Continue.

The **Register Tenable Nessus** page appears.

- 4. In the **Activation Code** box, type your Tenable Nessus Expert or Tenable Nessus Professional activation code.
- 5. Click Continue.

Activation begins and plugins download. For more information, see the Nessus User Guide.

Activate Tenable Nessus BYOL Scanner via the Command Line

To activate the Tenable Nessus Professional BYOL scanner via the command line:

1. Adjust the permissions for your downloaded SSH Key using the following command:

chmod 400 myNessusKey.pem

2. SSH into the Nessus BYOL scanner using the following command:

ssh -i myNessusKey.pem ec2-user@<BYOLpublicIP>

Where *<BYOLpublicIP>* is the IP address of your Tenable Nessus Professional instance.

3. Elevate privileges using the following command:

sudo su

4. Update the AMI using the following command:

yum update -y

5. Stop Tenable Nessus using the following command:

service nessusd stop

6. Register the scanner with your Tenable Nessus Professional activation code using the following command:

/opt/nessus/sbin/nessuscli fetch --register <ACTIVATION CODE>

Where <ACTIVATION CODE> is the activation code for your instance.

7. Start Tenable Nessus using the following command:

service nessusd start

Copy or Regenerate Tenable Vulnerability Management Linking Key

Required User Role: Administrator

Under certain circumstances, you may need to regenerate the linking key for your Tenable Vulnerability Management instance. For example, you may regenerate the key for security reasons if an employee with knowledge of the linking key leaves your organization.

Regenerating a linking key does not affect sensors that are currently linked to Tenable Vulnerability Management, because the linking key is only used to establish the initial link. After you link a sensor, the sensor connects to Tenable Vulnerability Management using unique credentials.

If your organization has hard-coded a linking key into implementation scripts, keep in mind the following:

- Be sure to replace the original key with the regenerated key to prevent script failure.
- Each Tenable Vulnerability Management instance uses a single linking key for all sensor types. If you regenerate the linking key while working with one type of sensor (for example, Tenable Nessus scanners), you also regenerate the linking key for the other sensor types. If you regenerate the linking key, be sure to update the implementation for scripts involving all types of sensors.

Note: To learn more about linking keys, see <u>Sensor Security</u> in the *Tenable Vulnerability Management User Guide*.

Note: These steps only apply if registering the Nessus BYOL scanner to be linked to and managed by Tenable Vulnerability Management.

To copy or regenerate the Tenable Vulnerability Management linking key:

- 1. Log in to https://cloud.tenable.com.
- 2. In the left navigation pane, click **Sensors**.

The **Sensors** page appears.

3. Click any sensor type tab (for example, **Nessus Scanner**).

The appropriate sensor page appears.

4. Click the Add [Sensor Type] button (for example, Add Nessus Scanner).

The appropriate sensor plane appears (for example, **Add Nessus Scanner**).

5. In the Add [Sensor Type] plane, click the Copy or the Regenerate button.

A confirmation window appears.

6. If regenerating the linking key, in the confirmation window, click **Regenerate**.

The **Regenerated Linking Key** message appears, and the new linking key replaces the original linking key in the **Add [Sensor Type]** plane.

7. Copy and save the **Linking Key**.

Activate Tenable Nessus BYOL Scanner Linked to Tenable Vulnerability Management

To activate the Tenable Nessus BYOL Scanner linked to and managed by Tenable Vulnerability Management:

1. Navigate to the Tenable Nessus user interface on Port 8834, for example, https://<NessusBYOL-IP>:8834.

The **Welcome to Tenable Nessus** page appears.

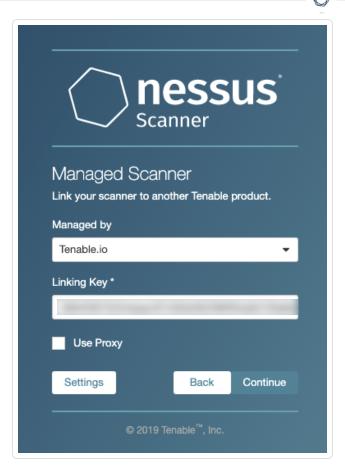
O

2. Select Managed Scanner.



3. Click Continue.

The **Managed Scanner** page appears.



- 4. From the **Managed by** drop-down box, select **Tenable Vulnerability Management**.
- 5. In the **Linking Key** box, paste the linking key copied in the <u>Copy or Regenerate Tenable</u> Vulnerability Management Linking Key section.
- 6. Click Continue.

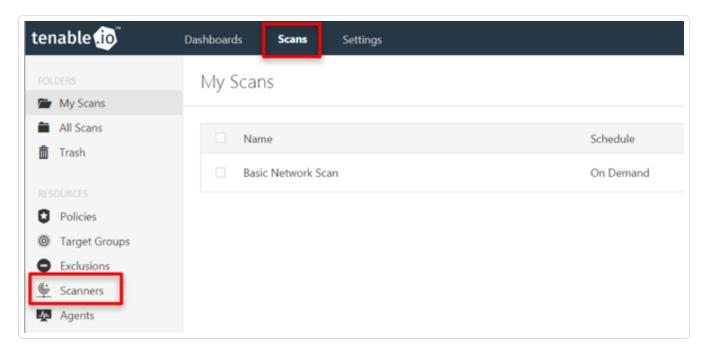
Tenable Vulnerability Management begins managing Tenable Nessus and plugins begin downloading. For more information, see the <u>Nessus User Guide</u>.

To confirm the Nessus BYOL Scanner in Tenable Vulnerability Management:

- 1. Log in to Tenable Vulnerability Management.
- 2. In the top menu bar, click **Scans**.

The **My Scans** page appears.

3. In the left-hand menu, click **Scanners**.



The **Scanners** page appears. Confirm the BYOL Scanner appears in the **Linked Scanners** list.

Link Tenable Nessus BYOL Scanner to Tenable Vulnerability Management via the Command Line

To link the Tenable Nessus BYOL scanner to Tenable Vulnerability Management via the command line:

1. Adjust the permissions for your downloaded SSH Key using the following command:

chmod 400 myNessusKey.pem

2. SSH into the Nessus BYOL scanner using the following command:

ssh -i myNessusKey.pem ec2-user@<BYOLpublicIP>

Where <BYOLpublicIP> is the IP address of your Tenable Nessus BYOL instance.

3. Elevate privileges using the following command:

sudo su

4. Update the AMI using the following command:

yum update -y

5. Stop Tenable Nessus using the following command:

service nessusd stop

6. Link the Nessus BYOL scanner to Tenable Vulnerability Management for management using the following command:

/opt/nessus/sbin/nessuscli managed link --key=<key> --cloud

Where <key> is the linking key associated with your Tenable Vulnerability Management instance.

Note: FedRAMP customers must use the following command:

/opt/nessus/sbin/nessuscli managed link --key=<key> host=fedcloud.tenable.com --port=443

7. Start Tenable Nessus using the following command:

service nessusd start

Link a BYOL Scanner to Tenable Vulnerability Management with Pre-Authorized Scanner Features

You can retain your pre-authorized AMI installation features when linking BYOL scanners to Tenable Vulnerability Management by using the following procedure.

Note: This feature is only available for Nessus versions 10.2.0 and later.

Caution: If you plan to downgrade a 10.2 Nessus scanner that was linked with the AWS scanner flag (see the following steps) to version 10.1.x or earlier, you need to manually unlink and relink the scanner after downgrading. Otherwise, Tenable Vulnerability Management does not recognize the scanner.

Before you begin:

Assign an IAM role to the Tenable Nessus instance you are deploying.

To link a BYOL scanner to Tenable Vulnerability Management with pre-authorized scanner features:



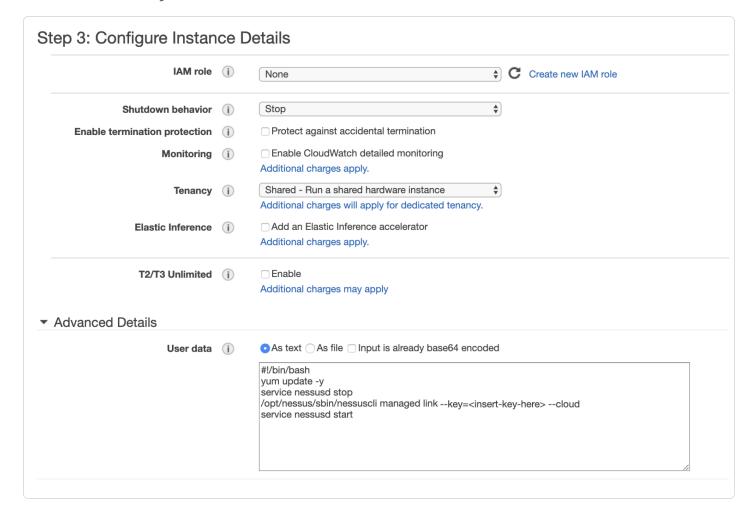
When you link the scanner to Tenable Vulnerability Management using the command line, as described in the <u>Link to Tenable Vulnerability Management</u> topic in the *Tenable Nessus User Guide*, use the optional --aws-scanner flag. For example:

```
> nessuscli managed link --key=<LINKING KEY> --cloud --aws-scanner
```

Note: The scanner must already be running on an AWS instance for the flag to take effect.

Optional Configuration

In addition to manual configuration, you can use a bootstrap script to configure the Tenable Nessus BYOL scanner. The following screenshot shows an example of using a bootstrap Script during Nessus BYOL Configuration:



Copy the following bootstrap script:

```
#!/bin/bash
yum update -y
service nessusd stop
/opt/nessus/sbin/nessuscli managed link --key=<insert-key-here> --cloud
service nessusd start
```

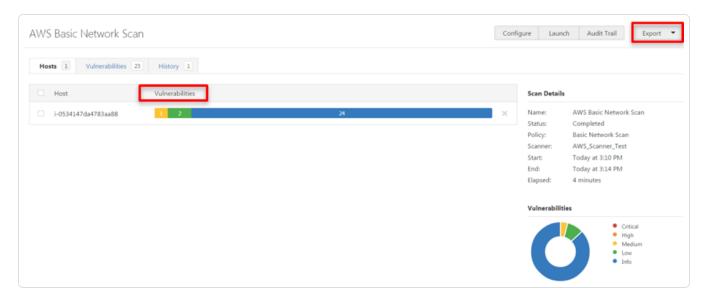
Create a Scan

Follow the Create a Scan steps in the Tenable Vulnerability Management User Guide.

View Scan Results in Tenable Vulnerability Management

Do one of the following:

- To view scan results, click on the completed scan.
- To view more details about the scan results, click the **Vulnerabilities** tab.



• To export the results in Nessus, PDF, HTML, CSV, or Nessus DB formats, click the **Export** button in the top-right corner.

Audit the AWS Environment

You can use Tenable Vulnerability Management to audit the Amazon Web Services environment to detect misconfigurations in your cloud environment and account settings using Tenable

Vulnerability Management. Complete the following steps to configure AWS for successful Audit Cloud Infrastructure assessments with Tenable Vulnerability Management.

Note: Tenable recommends that you create a new read-only access AWS account just for Tenable Vulnerability Management. If you experience issues, see <u>AWS Audit Troubleshooting</u>.

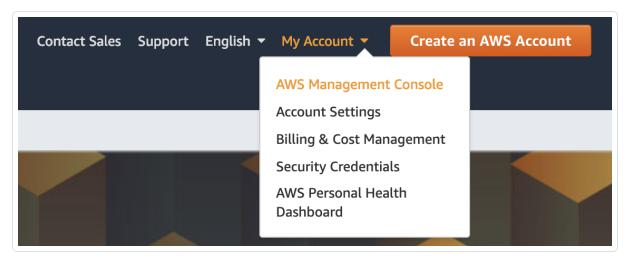
To audit the AWS environment, you must complete the following tasks:

- Create a Read-Only Group in AWS
- Create a Scanning User in AWS
- Configure AWS Audit Cloud Infrastructure in Tenable Vulnerability Management
- View Audit Details in the Scan Results

Create a Read-Only Group in AWS

To create a read-only group in AWS:

- 1. Log in to your AWS account.
- 2. Click My Account > AWS Management Console.



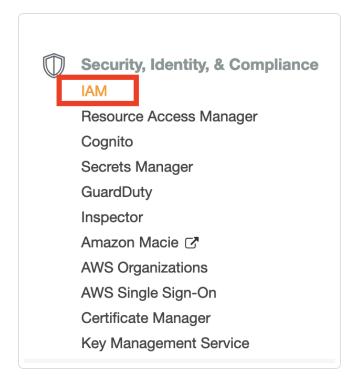
The AWS Management Console appears.

3. Click Services.

The **Services** page appears.



4. In the Security, Identity, and Compliance section, click IAM.



The IAM control panel appears.

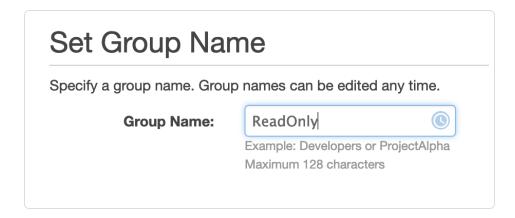
5. In the left panel, click **Groups**.

The **Groups** page appears.

6. Click Create New Group.

The **Create New Group Wizard** appears.

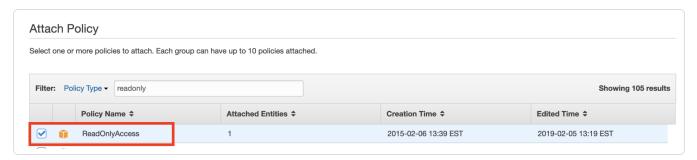
7. In the **Group Name** box, type a name for the read-only group.



8. Click Next Step.

The **Attach Policy** screen appears.

9. Select the **ReadOnlyAccess** AWS-managed policy.



- 10. (Optional) On the Attach Policy screen, select the SecurityAudit AWS-managed policy.
- 11. Click Next Step.

The **Review** page appears.

- 12. Review the group information.
- 13. Click Create Group.

AWS creates the read-only group.

Create a Scanning User in AWS

To create a scanning user in AWS:

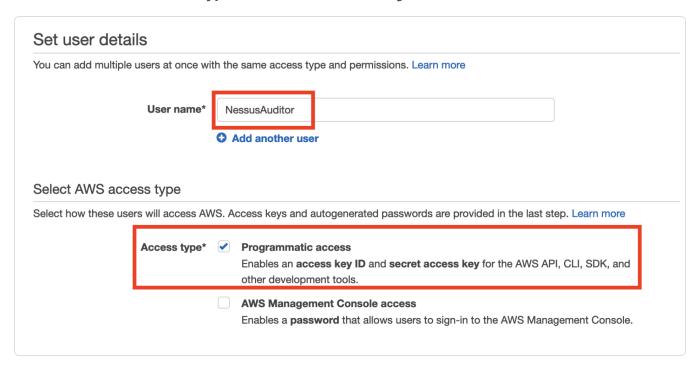
- 1. Log in to your AWS account.
- 2. Click Users > Add Users.

The **Add User** page appears.

3. In the **Set user details** section, in the **User name** text box, type a name for the user.



4. In the Select AWS access type section, select the Programmatic access checkbox.



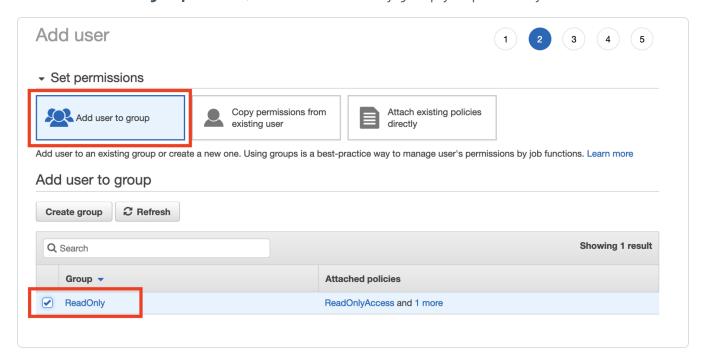
5. Click Next: Permissions.

The **Set permissions** page appears.

6. Click Add user to group.



7. In the **Add user to group** section, select the read-only group you previously created.



8. Click Next: Tags.

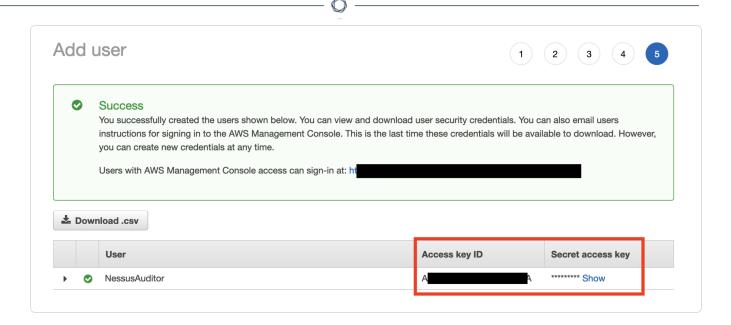
The **Tags** page appears.

- 9. (Optional) Configure any tags you want to add to the user profile.
- 10. Click Next: Review.

The **Review** page appears.

- 11. Review the user profile.
- 12. Click Create User.

An Access key ID and Secret access key appear.



13. Copy the **Access key ID** and **Secret access key** to use to configure the Audit Cloud Infrastructure in Tenable Vulnerability Management.

Configure AWS Audit Cloud Infrastructure in Tenable Vulnerability Management

To configure AWS Audit Cloud Infrastructure in Tenable Vulnerability Management:

- 1. Log in to Tenable Vulnerability Management.
- 2. In the upper-left corner, click the \equiv button.

The left navigation plane appears.

3. In the left navigation plane, in the **Vulnerability Management** section, click **Scans**.

The **Scans** page appears.

4. In the upper-right corner of the page, click **①Create a Scan**.

The **Select a Scan Template** page appears.

5. Click Audit Cloud Infrastructure.

The **New Scan** page appears.

- 6. On the **Settings** tab, type a name for the scan.
- 7. Set Scanner Type to Tenable Cloud Sensor.

8. Click the **Compliance** tab.

The **Compliance** options appear.

- 9. Click AMAZON AWS.
- 10. Select the appropriate audit files for the scan.

When you select an audit file, Tenable Vulnerability Management adds the file to the list.

11. Click the **Credentials** tab.

The **Credentials** options appear.

- 12. In the ADD CREDENTIALS section, select Amazon AWS.
- 13. In the **AWS Access Key ID** text box, type the key you copied in the <u>Create a Scanning User in</u> AWS section.
- 14. In the **AWS Secret Key** text box, type the key you copied in the <u>Create a Scanning User in</u> AWS section.
- 15. From the **Regions to Access** drop-down box, select the region to which you want to apply the scan.
- 16. Do one of the following:
 - To save without launching the scan click **Save**.
 - To save and launch the scan immediately, click the drop-down arrow next to Save and select Launch.

Tip: If you experience aborted scans or are unable to find a matching scanner route, you may need to specify a dedicated scanner, and re-scan. For troubleshooting help, see AWS Audit Troubleshooting. For more information on Tenable Vulnerability Management scans, refer to the Tenable Vulnerability Management User Guide.

View Audit Details in the Scan Results

After the scan completes, you can analyze the results in Tenable Vulnerability Management.

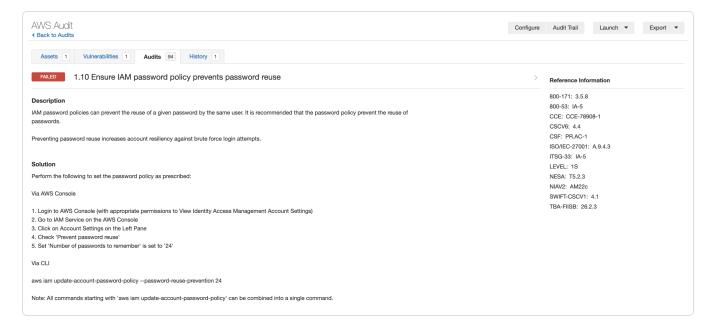
To view audit details in the scan results:



- 1. Log in to Tenable Vulnerability Management.
- 2. In the top navigation bar, click **Scans**.
- 3. Click the AWS Cloud Infrastructure scan you previously created.
- 4. Click the Audits tab.



5. Click an audit in the table to view audit details, including the **Description**, **Reference Information**, and **Solution**.



AWS Audit Troubleshooting

If you encounter issues while running the Audit Cloud Infrastructure scan, first, check the following:

- User configuration or permissions issues with the AWS account.
- AWS networking mechanisms that potentially block Tenable Vulnerability Management scan attempts.

If necessary, enable debug logging and contact Tenable Support for troubleshooting assistance.

To enable debug logging for the Audit Cloud Infrastructure scan:

- 1. Navigate to the **Audit Cloud Infrastructure** scan you created in Audit the AWS Environment.
- 2. On the **Settings** tab, click **Advanced**.
- 3. In the **Debug Settings** section, select the **Enable plugin debugging** checkbox.
- 4. Do one of the following:
 - To save without launching the scan click **Save**.
 - To save and launch the scan immediately, click the drop-down arrow next to Save and select Launch.
- 5. In the top navigation bar, click **Scans**.
- 6. Click the row for the Audit Cloud Infrastructure scan you created.
- 7. Click the **Assets** tab.

The **Assets** information appears.

8. Click the AWS Account asset.

Note: This asset always has a loopback address of 127.0.0.1.

9. In the Asset Details section, next to Scan DB, click Download.



The **Export** window appears.



- 10. In the **Password** box, type the password you want to use to encrypt the **Scan DB** file.
- 11. Contact Tenable Support and provide the .db log file and the encryption password.

Security Hub

Through the use and configuration of the Tenable Vulnerability Management to AWS Security Hub Transformer, Tenable Vulnerability Management can send vulnerabilities to AWS Security Hub. This tool consumes Tenable Vulnerability Management asset and vulnerability data, transforms that data into the AWS Security Hub Finding format, and then uploads the resulting data into AWS Security Hub.

Note: The script does not need to be run in AWS.

The tool can be run either as a one-shot docker container or as a command line tool:

- To run as a docker image, you must build the image and then pass the necessary secrets on to the container.
- To run as a command line tool, you must install the required python modules and then run the tool using either environment variables or by passing the required parameters as run-time parameters.

Requirements

- Tenable Vulnerability Management account
- Tenable Vulnerability Management AWS connector enabled and configured
- AWS Security Hub
- Tenable Vulnerability Management Provider enabled and configured in Security Hub

Download Tenable + AWS Security Hub Transformer

In order to consume Tenable Vulnerability Management asset and vulnerability data, transform that data into the AWS Security Hub Finding format, and then upload the resulting data into AWS Security Hub, you need the transformer tool. Download the tool here.

Installation

To build the Docker image, run the following script:

docker build -t tio2sechub:latest .

To install python requirements, run the following script:

pip install -r requirements.txt

Enable Script in Security Hub

- 1. Log in to Security Hub.
- 2. If you have not yet enabled Security Hub, click **Enable Security Hub**.
- 3. Navigate to **Settings** > **Providers**.
- 4. In the **Search** box, type *Tenable*.
- 5. Click **Configure**.

Your account subscribes to accept events from the script.

Configuration

The following lists the command line arguments as well as the equivalent environment variables:

```
usage: sechubingest.py [-h] [--tio-access-key TIO_ACCESS_KEY]
                                            [--tio-secret-key TIO SECRET KEY]
                                            [--batch-size BATCH_SIZE] [--aws-region
AWS_REGION]
                                            [--aws-account-id AWS_ACCOUNT_ID]
                                            [--aws-access-id AWS_ACCESS_ID]
                                            [--aws-secret-key AWS_SECRET_KEY]
                                            [--log-level LOG_LEVEL] [--since OBSERVED_
SINCE]
                                            [--run-every RUN EVERY]
optional arguments:
-h, --help
                      show this help message and exit
--tio-access-key TIO_ACCESS_KEY
                                            Tenable.io Access Key
--tio-secret-key TIO_SECRET_KEY
                                            Tenable.io Secret Key
--batch-size BATCH SIZE
                                            Size of the batches to populate into
Security Hub
```

```
--aws-region AWS_REGION
                                            AWS region for Security Hub
--aws-account-id AWS_ACCOUNT_ID
                                            AWS Account ID
--aws-access-id AWS_ACCESS_ID
                                            AWS Access ID
--aws-secret-key AWS_SECRET_KEY
                                            AWS Secret Key
--log-level LOG_LEVEL
                                            Log level: available levels are debug,
info, warn,
                                            error, crit
--since OBSERVED_SINCE
                                            The unix timestamp of the age threshold
--run-every RUN_EVERY
                                            How many hours between recurring imports
```

To run the import once, run the following script:

```
./sechubingest.py
--tio-access-key {TIO_ACCESS_KEY} \
--tio-secret-key {TIO_SECRET_KEY} \
--aws-region us-east-1 \
--aws-account-id {AWS_ACCOUNT_ID} \
--aws-access-id {AWS_ACCESS_ID} \
--aws-secret-key {AWS_SECRET_KEY} \
```

To run the import once an hour, run the following script:

```
./sechubingest.py
--tio-access-key {TIO_ACCESS_KEY} \
--tio-secret-key {TIO_SECRET_KEY} \
--aws-region us-east-1 \
--aws-account-id {AWS_ACCOUNT_ID} \
--aws-access-id {AWS_ACCESS_ID} \
--aws-secret-key {AWS_SECRET_KEY} \
--run-every 1
```

To run the same import using environment vars, run the following script:

```
export TIO_ACCESS_KEY="{TIO_ACCESS_KEY}"
export TIO_SECRET_KEY="{TIO_SECRET_KEY}"
export AWS_REGION="us-east-1"
export AWS_ACCOUNT_ID="{AWS_ACCOUNT_ID}"
export AWS_ACCESS_ID="{AWS_ACCESS_ID}"
export AWS_SECRET_KEY="{AWS_SECRET_KEY}"
export RUN_EVERY=1
./sechubingest.py
```