

ANYWHERE Virtual Machines

Armor Knowledge Base

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To fully use this screen, you must have the following permissions assigned to your account:

- Write Virtual Machines
- View Core License
- Read Utilization

After you sync your public cloud account with the Armor Management Portal (AMP), you can use the **Virtual Machines** screen to view the instances associated with your public cloud account.

Additionally, the Virtual Machines screen will display the security status of these instances. All instances for the synced public cloud account will be displayed; however, instances without the Anywhere agent will be labeled as **Unprotected**.



To sync your public cloud account with AMP, see [ANYWHERE Cloud Connections](#).

The **Cloud Connection** screen simply lists the synced public cloud account; the **Virtual Machines** screen lists all the instances listed in that public cloud account.



To learn how to install Armor Anywhere, see [Install Armor Anywhere](#).

Review Virtual Machines

The **Virtual Machines** screen provides a high-level view of all of your virtual machines.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **Virtual Machines**.
 - Search by Virtual Machine, Primary IP, or Tag.
 - Filter by Type, State, or Power Status.

Field	Description
Name	This column displays the name of the instance from your public cloud account.
Primary IP	This column displays the the primary IP address associated with the instance.
Type	This column display the type of instance, specific to the offerings offered by your public cloud provider, such as EC2 instance for AWS. <ul style="list-style-type: none">• More common types are VM and Log Relay.
Date Created	This column displays the date the instance was created in your public cloud account.
Security Groups	This column displays the corresponding security group from your public cloud account.

State	<p>This column displays the security status of the instance, in relation to the installed agent. There are three states:</p> <ul style="list-style-type: none"> • Unprotected indicates the agent is not installed in the instance. <ul style="list-style-type: none"> • Instances without an agent will be labeled as Unprotected. All instances from the public cloud account will be displayed. • Needs Attention indicates that the agent is installed, but has not properly communicated (heartbeated) with Armor. • OK indicates that the agent is installed and has communicated (heartbeated) with Armor.
Power	<p>This column displays the power status of the virtual machine:</p> <ul style="list-style-type: none"> • A green icon indicates that the virtual machine is powered on. • A red icon indicates that the virtual machine is powered off. • An orange icon indicates that the virtual machine is in a different (inconsistent) power state than the other virtual machines in the same vApp. • An infinite loop icon indicates that the virtual machine is pending installation.
Tags	<p>This column displays any tags that have been added to the virtual machine on the Tags + Notes screen.</p>

Review Details for a Specific Virtual Machine

From the **Virtual Machines** screen, you can access detailed information for each virtual machine.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **Virtual Machines**.
3. Locate and select the desired instance.

Overview

This section displays detailed information for the virtual machine.

Column	Description
Type	<p>This entry displays the type of instance, specific to the offerings offered by your public cloud provider, such as EC2 instance for AWS.</p> <ul style="list-style-type: none"> • More common types are VM and Log Relay.
Provider	<p>This entry displays the public cloud provider for the instance.</p>
Instance ID	<p>This entry displays the ID associated with the instance or virtual machine.</p>
Instance State	<p>This entry displays the security status of the instance or virtual machine.</p>
Original OS Version	<p>This entry displays the original operating system for the instance or virtual machine.</p>
Current OS Version	<p>This entry displays the current operating system for the instance or virtual machine.</p>
Public IP	<p>This entry displays the public IP address associated with the instance or virtual machine.</p>
Agent ID	<p>This entry displays the unique ID associated with the Armor Agent.</p>
Agent Version	<p>This entry displays the version of the Armor Agent.</p>
Last Heartbeat	<p>This entry displays the date and time of the last successful heartbeat.</p>

Sub-Agent Health Table

This section displays the sub-agent health related to your Armor-protected virtual machines.

COLUMN	DESCRIPTION
Name	<p>This entry displays the specific service that is being checked.</p>

Product	This column displays the product name associated with the sub-agent (i.e. Trend, Rapid7).
Sub-Agent Version	This column displays the sub-agent version.
State	This entry displays the status of the service, either OK , Needs Attention , or Pending . <ul style="list-style-type: none"> The status will reflect Pending for up to two hours from the time the virtual machine or Armor agent is initially registered.
Message	If the status is Needs Attention , then this entry will display additional details on the service check results.

Review Sub-Agent Health Details for a Virtual Machine

For each of your virtual machines, you can view sub-agent health details. You can use this information to troubleshoot agents that may be in a bad state.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **Virtual Machines**.
3. Locate and select the desired instance.
4. Locate and hover over the sub-agent that you want to view.
5. Click the name of the desired sub-agent. Or, click the vertical ellipses, then click **View Details**.
6. On the left-side of the screen, select the sub-agent that you want to view.
 - a. The information that displays on the right-side of the screen will change based on the sub-agent that is selected.

Armor Agent

Review specific information and troubleshooting steps for the **Armor Agent** service.

SECTION	DESCRIPTION
Details	This section displays the following information for the Armor agent: <p>Heartbeat</p> <ul style="list-style-type: none"> Last Heartbeat Heartbeat Window Steps to Remediate <p>Agent Version</p> <ul style="list-style-type: none"> Installed Version Current Version Steps to Remediate

File Logging

Review specific information and troubleshooting steps for the **File Logging** service.

SECTION	DESCRIPTION
Details	Logs <ul style="list-style-type: none"> Last Log Received Log Received Window Steps to Remediate <p>Log Version</p> <ul style="list-style-type: none"> Installed Version Current Version Steps to Remediate
Connectivity	This section displays the script to check connectivity, along with steps to remediate.

File Integrity Monitoring

Review specific information and troubleshooting steps for the **File Integrity Monitoring (FIM)** service.

SECTION	DESCRIPTION
Trend to Armor Sync	Trend <ul style="list-style-type: none">• Host ID• Status• Last Communication Armor <ul style="list-style-type: none">• Host ID• Status• Last Communication Steps to Remediate
Connectivity	This section displays the script(s) to check connectivity, along with steps to remediate.
Errors	This section displays any known errors, along with steps to remediate.

Intrusion Detection System

Review specific information and troubleshooting steps for the **Intrusion Detection System (IDS)** service.

SECTION	DESCRIPTION
Trend to Armor Sync	Trend <ul style="list-style-type: none">• Host ID• Status• Last Communication Armor <ul style="list-style-type: none">• Host ID• Status• Last Communication Steps to Remediate
Connectivity	This section displays the script(s) to check connectivity, along with steps to remediate.
Errors	This section displays any known errors, along with steps to remediate.

Malware Protection

Review specific information and troubleshooting steps for the **Malware Protection** service.

SECTION	DESCRIPTION
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Trend to Armor Sync	<p>Trend</p> <ul style="list-style-type: none"> • Host ID • Status • Last Communication <p>Armor</p> <ul style="list-style-type: none"> • Host ID • Status • Last Communication <p>Steps to Remediate</p>
Connectivity	This section displays the script(s) to check connectivity, along with steps to remediate.
Errors	This section displays any known errors, along with steps to remediate.

Vulnerability Scanning

Review specific information and troubleshooting steps for the **Vulnerability Scanning** service.

SECTION	DESCRIPTION
Registered	<p>This section displays the following information for the Armor agent that is registered:</p> <ul style="list-style-type: none"> • Agent ID • Asset ID • Status • Steps to Remediate
Scan Import	<p>This section displays the following scan import information for the Armor agent:</p> <ul style="list-style-type: none"> • Report Date • Expected Window • Status • Steps to Remediate
Connectivity	This section displays the script(s) to check connectivity, along with steps to remediate.
Last Scan Time	<p>This section displays the following information regarding the most recent scan:</p> <ul style="list-style-type: none"> • Scan Time • Expected Window • Status • Steps to Remediate

Add Tags and Notes to a Virtual Machine

You can use the **Tags + Notes** section to add tags to your instance, to improve categorization and search capabilities. You can also add notes to help track changes and tasks related to an instance.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **Virtual Machines**.
3. Locate and select the desired virtual machine.
4. Click **Tags + Notes**.
 - a. In the **Tags** section, enter the desired tag, then click the (+) symbol to add.
 - i. Multiple tags may be added.
 - b. In the **Notes** section, enter the desired note.
5. Click **Save Changes**.

Remove Tags and Notes from a Virtual Machine

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **Virtual Machines**.
3. Locate and select the desired virtual machine.
4. Click **Tags + Notes**.
 - a. In the **Tags** section, click the "X" next to the tag that you want to remove.
 - b. In the **Notes** section, delete or edit the note.
5. Click **Save Changes**.

Enable Auto-Removal of Inactive Virtual Machines

The auto-remove feature allows you to remove your virtual machines from AMP that are no longer communicating with Armor.



This feature does **not** remove your virtual machines from your cloud provider.



This setting is limited to users in the Admin role only.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **Virtual Machines**.
3. Hover over the plus (+) icon, and then click the **Virtual Machine Settings** icon.
4. Click the **Auto remove VMs** setting to enable the auto-remove feature.
 - a. Click the setting again to disable the feature.
5. In **Remove VMs after**, select the desired time frame for when your virtual machines should be removed - **7 Days, 14 Days, or 30 Days**.
6. Click **Save**.

Export Usage Data

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **Virtual Machines**.
3. Click **Export Usage**.
4. In the drop-down menu, select a file type to download.
5. Select the range of data to download.
6. Click **Export Usage**.
 - A file will download to your local machine.

Option	Description
All Usage + Summaries - 1 month max	This option will download a .zip file every available file type: <ul style="list-style-type: none">• Usage by Host• Usage by Hour• Usage Details

Usage Details - 1 month max	<p>This option downloads a .zip file with the following information:</p> <table border="1" data-bbox="548 184 1182 506"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AccountId</td> <td>The ID for the Armor Account</td> </tr> <tr> <td>AccountName</td> <td>The name of the Armor account</td> </tr> <tr> <td>ProviderName</td> <td>The public cloud provider</td> </tr> <tr> <td>ResourceName</td> <td>The name of the virtual machine (asset)</td> </tr> <tr> <td>AgentId</td> <td>The ID for the Armor Anywhere agent</td> </tr> <tr> <td>UsageDateTime</td> <td>The time and date for the usage, on an hourly rate</td> </tr> </tbody> </table>	Column	Description	AccountId	The ID for the Armor Account	AccountName	The name of the Armor account	ProviderName	The public cloud provider	ResourceName	The name of the virtual machine (asset)	AgentId	The ID for the Armor Anywhere agent	UsageDateTime	The time and date for the usage, on an hourly rate
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