

AMF Plus Cloud on Nutanix AHV Installation Guide

Installation Guide

Introduction

AMF Plus Cloud is a scalable cloud-based network management platform. It supports Allied Telesis switching, firewall, and wireless products, as well as a wide range of third-party devices.

This installation guide enables you to install and configure AMF Plus Cloud in a Nutanix AHV environment.

Related documents

This guide does not include the installation and configuration of the Nutanix AHV environment. For more information, refer to the Nutanix AHV documentation. In particular, for information about network configuration, refer to the [Nutanix AHV Networking](#) documentation.

For details about the AMF Plus Cloud system requirements, please refer to the [AMF Plus Cloud Datasheet](#).

For more information about AMF Plus Cloud, refer to the [AMF Plus Cloud](#) documentation.



Contents

Introduction	1
Related documents.....	1
Procedure overview.....	3
Prepare the image file	3
Create the virtual machine	6
Install the software.....	10
Basic operation of this product.....	12
Starting the product.....	12
Stopping the product.....	13
Accessing the console.....	15
Firmware upgrade and downgrade.....	16

Procedure overview

The general procedure for setting up this product on Nutanix is as follows:

1. Prepare the image file

Download the ISO image file, and upload it to your Nutanix host.

2. Create the virtual machine

Create a virtual machine on the Nutanix host to run this product.

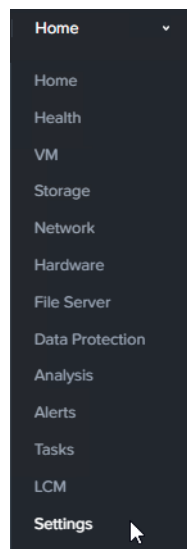
3. Install the software

Boot the virtual machine from the installation ISO image file and install this product.

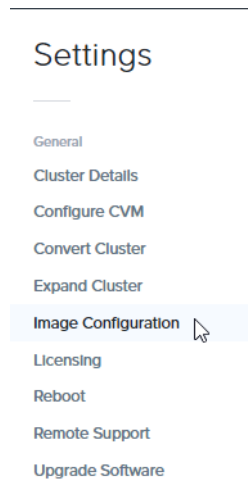
Prepare the image file

First, you need to upload the ISO image file used to install this product to the Nutanix AHV host.

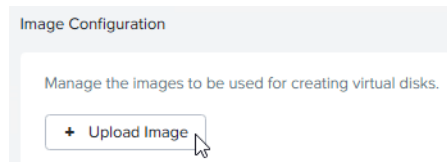
1. Download the ISO image file to the management PC.
2. Enter the IP address of the Nutanix AHV host in the web browser of the management PC, enter the user name and password on the login screen, and log in to the Nutanix AHV web management screen.
3. Select **Settings** from the drop-down menu at the top of your dashboard.



4. Click **Image Configuration** on the **Settings** screen.



5. Click **+ Upload Image** on the **Image Configuration** screen.



6. On the **Create Image** screen, enter the following details and click **Save**.

Name: Enter a name for the image.

Image type: Select **ISO**.

Storage Container: Select any.

Image Source: Select **Upload a file**, click the **Choose File** button, and specify the ISO image file.

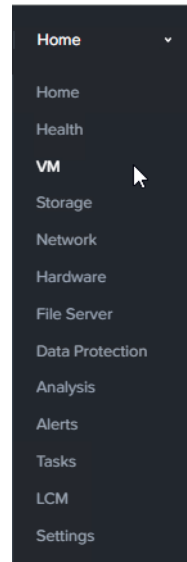
The screenshot shows the 'Create Image' dialog box with the following fields and options:

- Name:** An empty text input field.
- Annotation:** An empty text input field.
- Image Type:** A dropdown menu currently set to 'Not Selected'.
- Storage Container:** A dropdown menu currently set to 'CONTAINER00'.
- Image Source:** Two radio buttons are present: 'From URL' (unselected) and 'Upload a file' (selected). The 'Upload a file' option includes a 'Choose File' button and the text 'No file chosen'.
- Navigation:** At the bottom, there are three buttons: 'Back', 'Cancel', and 'Save'.

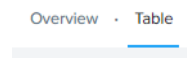
Create the virtual machine

Next, you need to create the virtual machine required to install and run this product on the Nutanix AHV host.

1. Select **VM** from the drop-down menu at the top of the administration screen.



2. Select the **Table** tab.



3. Click **+ Create VM**.



4. Enter and select the following in each section of the **Create VM** screen:

- a. **General Configuration** section

Name: Enter a name for your virtual machine.

General Configuration

Name

Description

Timezone

Use UTC timezone for Linux VMs and local timezone for Windows VMs.

Use this VM as an agent VM

b. Compute Details section:

vCPU(s): Select **2** or higher

Memory: Select **1** or more

Compute Details

vCPU(s)

Number Of Cores Per vCPU

Memory [?]

 GIB

5. Click the pencil icon on the **CD-ROM** line in the **Disks** section of the **Create VM** screen.

Create VM ? | ✕

UEFI [?]

Disks + Add New Disk

Type	Address	Parameters	
CD-ROM	ide.0	EMPTY=true; BUS=ide	✎ · ✕

- On the **Update Disk** screen, select as follows and click **Update**:

Operation: Select **Clone from Image Service**.

Image: Select the installation image name created in “Prepare the image file”.

The CD-ROM is empty.

Type: CD-ROM

Operation: Clone from Image Service

Bus Type: IDE

Image: vaa-5.5.3-11

Size (GiB): 0.00
Please note that changing the size of an image is not allowed.

Index: 0 (in use)

Buttons: Cancel, Update

- Return to the **Create VM** screen, and click **+ Add New Disk** in the **Disks** section.

Disks + Add New Disk

Type	Address	Parameters	
CD-ROM	ide.0	EMPTY=true; BUS=ide	✎ ✕

- On the **Add Disk** screen, enter the following and click **Add**:

Size: Enter a value of **32** or more.

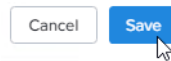
- Back on the **Create VM** screen, click **+ Add New NIC** in the **Network Adapters (NIC)** section.

- On the **Create NIC** screen, select as follows and click **Add**:

Subnet Name: Select any suitable network.

VLAN ID	IPAM	Virtual Switch
3351	Not Managed	vs1

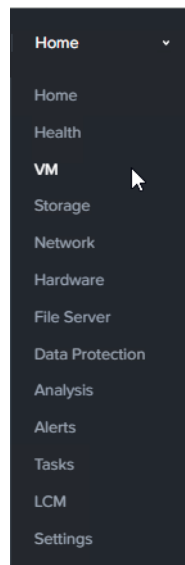
11. When you return to the **Create VM** screen, click **Save**.



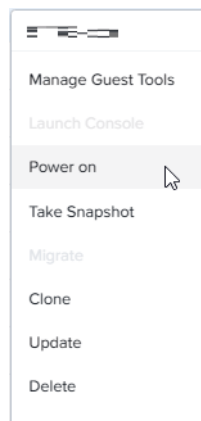
Install the software

After creating the virtual machine, start the virtual machine from the installation ISO image that has already been configured, and install this product on the virtual machine.

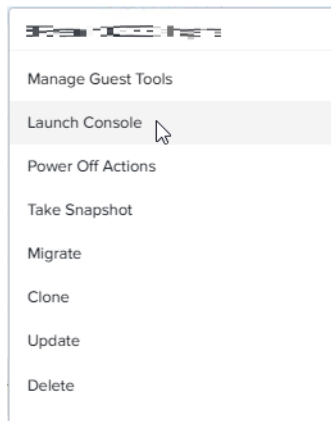
1. Select **VM** from the drop-down menu at the top of the administration screen.



2. Right-click the virtual machine you created and select **Power On** from the context menu. This will start the virtual machine from the installation ISO image of this product.



3. Right-click the virtual machine and select **Launch Console** from the context menu.



4. The console screen of this product is displayed, and after the startup message, the login prompt is displayed.

```
[ OK ] Started eventwatch.
[ OK ] Started imi.
[ OK ] Started hsl.
[ OK ] Started Licensing Daemon.
[ OK ] Started nsm.
[ OK ] Started AMF Apps.
[ OK ] Started atmf agent.
        Starting atmfd...
[ OK ] Started AMF file server daemon.
        Starting lldpd...
        Starting Platform Event Handler...
        Starting Trigger...
[ OK ] Started Tunnel Manager.
[ OK ] Started Platform Event Handler.
[ OK ] Started Trigger.
[ OK ] Started lldpd.
[ OK ] Started atmfd.
[ OK ] Reached target Multi-User System.
        Starting AWPlus...

Initializing HA processes:
atmf_agentd, execd, hostd, hsl, lldpd, atmfd, imi
nsm

Assigning Active Workload to HA processes:
hsl, imi, lldpd, nsm

Loading default configuration
Warning: flash:/default.cfg does not exist, loading factory defaults.
..
done!

awplus login:
```

5. Log in with username **manager** and password **friend**.

```
awplus login: manager
```

```
Password: friend
```

Note: The password text is not actually displayed.

- The following prompt will be displayed, press the **Y** key to start the installation, and when completed, the command prompt will be displayed.

```
The system has been booted from removable media.
```

```
Bootup has successfully completed.
```

```
Install this release to disk? (y/n): y
```

```
Installing release... OK
```

```
AlliedWare Plus (TM) 5.5.3 xx/xx/xx xx:xx:xx
```

```
awplus>
```

- This completes the installation.

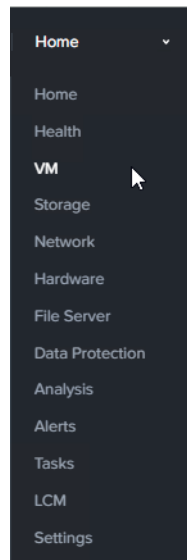
Basic operation of this product

This section covers basic operation methods, such as starting and stopping this product, accessing the console, and upgrading or downgrading the firmware.

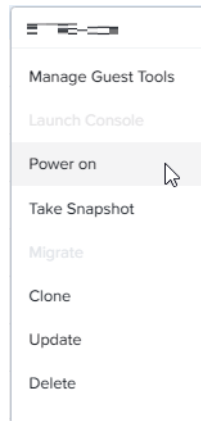
Starting the product

To start the virtual machine, use the following steps:

- Select **VM** from the drop-down menu at the top of the administration screen.



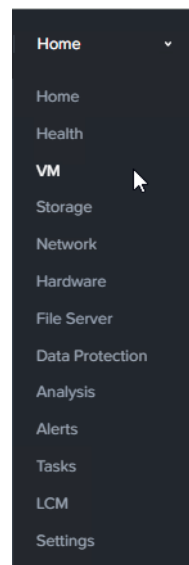
2. Right-click the virtual machine and select **Power On** from the context menu. This will start the virtual machine from the installation ISO image of this product.



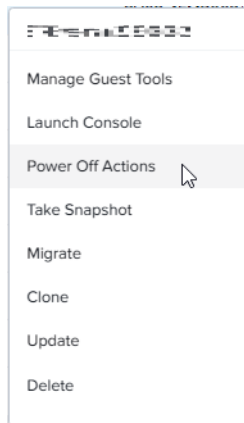
Stopping the product

To stop the virtual machine, use the following steps:

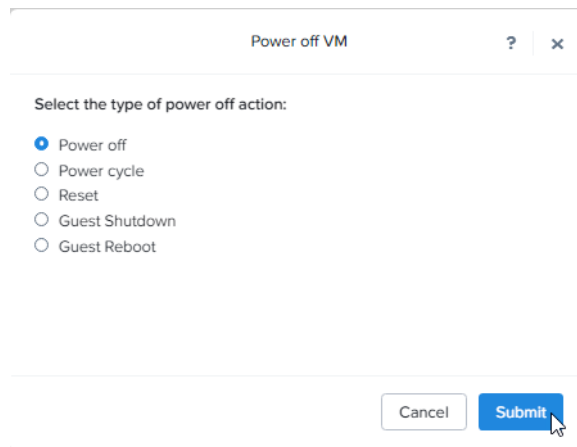
1. Select **VM** from the drop-down menu at the top of the administration screen.



2. Right-click on the virtual machine and select **Power Off Actions** from the context menu.



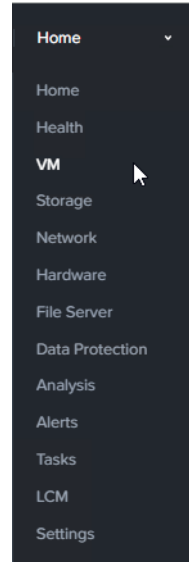
3. When the **Power off VM** screen opens, select **Power off** and click **Submit**.



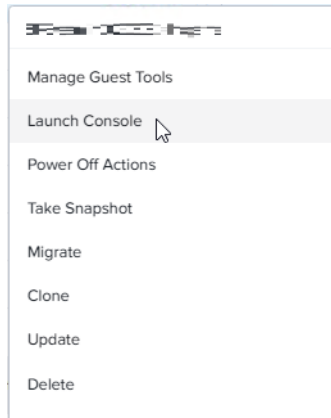
Accessing the console

To access the virtual machine console, use the following steps:

1. Select **VM** from the drop-down menu at the top of the administration screen.



2. Right-click the virtual machine and select **Launch Console** from the context menu.



Firmware upgrade and downgrade

To upgrade or downgrade the firmware of the virtual machine, use the following steps:

1. Upload the installation ISO image of the version to be upgraded/downgraded to the Nutanix AHV host by following the instructions in [“Prepare the image file”](#).
2. If the virtual machine of this product is running, stop the virtual machine according to the procedure of [“Stopping the product”](#).
3. Right-click the virtual machine of this product and select **Update** from the context menu.
4. Click the pencil icon to the right of the **CD-ROM** line in the **Disks** section of the **Update VM** screen.

Note: If the CD-ROM is not empty, click the up arrow icon to empty it, then click the pencil icon.

Type	Address	Parameters
CD-ROM	ide.0	SIZE=0.09GIB; CONTAINER=...

5. On the **Update Disk** screen, select as follows and click **Update**.

Operation: Select **Clone from Image Service**

Image: Select the installation image for the version you are upgrading/downgrading to.

6. Click **Save** when you return to the **Update VM** screen.
7. Start this product according to the procedure in [“Starting the product”](#).
8. Open the virtual machine window of this product according to the procedure in [“Accessing the console”](#).
9. The console screen of this product is displayed, and after the startup message, the login prompt is displayed.
10. Log in with username **manager** and password **friend**.

```
awplus login: manager
```

```
Password: friend
```

Note: The password text is not actually displayed.

11. The following prompt will be displayed, press the **Y** key to start the installation, and when completed, the command prompt will be displayed.

```
The system has been booted from removable media.
```

```
Bootup has successfully completed.
```

```
Install this release to disk? (y/n): y
```

```
Installing release... OK
```

```
AlliedWare Plus (TM) 5.5.3 xx/xx/xx xx:xx:xx
```

```
awplus>
```

12. This completes the installation.

C613-04152-00 REV A



NETWORK SMARTER

North America Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895

Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

EMEA & CSA Operations | Incheonweg 7 | 1437 EK Rozenburg | The Netherlands | T: +31 20 7950020 | F: +31 20 7950021

alliedtelesis.com

© 2023 Allied Telesis, Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners.