Technical Guide

AR4000S-Cloud on Oracle Cloud Installation Guide

Installation Guide

Introduction

The AR4000S-Cloud is a virtual router appliance product that provides functions such as VPN and firewall.

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Allied Telesis

This installation guide enables you to install and configure your AR4000S-Cloud in an Oracle Cloud environment.

Note: This document contains a lot of terminology specific to Oracle Cloud. For more detailed information about Oracle Cloud terms and concepts, please refer to the Oracle Cloud documentation. Also, the screen-shots shown were current at the time of creation, but are subject to change.



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Creating an AR4000S-Cloud instance on Oracle Cloud

The standard way to create virtual machines on Oracle Cloud is to use a Virtual Machine Image. A virtual machine image is a **template** containing all the information needed to create instances of a specific type.

To allow the creation of AR4000S-Cloud instances on Oracle Cloud, an AR4000S-Cloud virtual machine image is needed.

The following sections cover downloading AR4000S-Cloud from the Allied Telesis Download Center, and the requirements to upload the QCOW image to your Oracle Cloud account as a virtual machine image. You can create the image using either:

- the Oracle CLI (see the "Creating an AR4000S-Cloud Image with the Oracle CLI" section), or
- the Oracle Cloud GUI (see the "Creating an AR4000S-Cloud Image with the Oracle GUI" section).

Prerequisites

To configure an AR4000S-Cloud instance on Oracle Cloud, you will need access to the following:

- A PC, connected to the Internet.
- An Oracle Cloud account.
- An AR4000S-Cloud QCOW image. This can be downloaded from the Allied Telesis Download Center.
- (Optional) The Oracle Cloud CLI. The installation instructions can be found at https:// docs.oracle.com/en-us/iaas/Content/API/SDKDocs/cliinstall.htm.

Creating an AR4000S-Cloud Image with the Oracle CLI

The following section contains instructions on how to create an AR4000S-Cloud image in Oracle Cloud using Oracle CLI. Instructions for using the Oracle Cloud GUI can be found in the "Creating an AR4000S-Cloud Image with the Oracle GUI" section.

Install the Oracle Cloud CLI

The following steps require the use of the Oracle Cloud CLI. For links to download Oracle Cloud CLI, instructions on how to install it, and documentation of its functionality, refer to https://docs.oracle.com/en-us/iaas/Content/API/SDKDocs/cliinstall.htm.

Login to Oracle Cloud via the CLI

To configure your Oracle Cloud account and upload the QCOW, it is necessary to log in to the account using the Oracle Cloud CLI.

1. At the command line, enter the following command:

```
oci session authenticate
```

2. This will open a web browser to authenticate your connection. Log in using your Oracle Cloud credentials.

Create the Oracle Cloud Compartment

An Oracle Cloud Compartment is required to associate all of your Oracle Cloud resources.

Note: If you already have an existing Compartment that you want to use, you may skip this step. You can see a list of your existing compartments by using the **oci iam compartment list** command.

Find the parent Compartment ID

Enter the following command at the Oracle Cloud CLI command line:

```
oci iam compartment list --access-level <level>
--compartment-id-in-subtree <subtree> --auth security_token
```

The following parameters are required:

Table	1: oci	iam	compartment	list	Command	Parameters
-------	--------	-----	-------------	------	---------	------------

<level></level>	Options are 'any' or 'accessible'. Set this to 'accessible' to show only compartments the user has permission for.
<subtree></subtree>	Options are 'true' or 'false'. Set this to 'true' to view all compartments, including sub-compartments.

Example:

```
oci iam compartment list --access-level accessible
--compartment-id-in-subtree true --auth security_token
```

Example output:

```
{
  "data": [
    {
    "compartment-id": "ocid1.tenancy.oc1..abcdefghijklmnopqrstuvwxyz1234567890",
      "defined-tags": {
        "Oracle-Tags": {
          "CreatedBy": "default/admin@company.com",
          "CreatedOn": "2023-08-14T23:49:34.144Z"
        }
     },
      "description": "Compartment for Testing",
      "freeform-tags": {},
      "id": "ocid1.compartment.oc1..0987654321abcdefghijklmnopqrstuvwxyz",
      "inactive-status": null,
      "is-accessible": true,
      "lifecycle-state": "ACTIVE",
      "name": "Test_Compartment",
      "time-created": "2023-08-14T23:49:34.211000+00:00"
    }
 ]
}
```

Create the Compartment

Once you have the Compartment details, use the id from above for the next step.

```
oci iam compartment create --compartment-id <id> --name <name>
--description <description>
```

Table 2: oci iam compartment cr	reate Command Parameters
---------------------------------	--------------------------

<id></id>	The Compartment ID of the parent Compartment containing the created Compartment. This can be found using the OCI CLI in the "Find the parent Compartment ID" section.
<name></name>	The name of the Compartment to be created. The name must be unique across all Compartments in the parent Compartment.
<description></description>	Sets the description of the Compartment during creation. This does not need to be unique, and can be changed later.

Example:

```
oci iam compartment create --compartment-id
ocid1.compartment.oc1..0987654321abcdefghijklmnopqrstuvwxyz
--name AR-Cloud --description 'AR-Cloud storage'
```

From the Oracle Cloud web page, Compartments can be managed in the Compartments section.

Create the Bucket

You then need to create an Oracle Cloud Bucket within the above Compartment.

Note: If you already have an existing Bucket in the Compartment that you want to use, you may skip this step.

```
oci os bucket create --compartment-id <id> --name <name>
--storage-tier <description>
```

Table 3: oci os bucket create Command Parameters

<id></id>	The ID of the Compartment in which to create the Bucket. This is the Compartment created in the "Create the Compartment" section. See the "Find the parent Compartment ID" section for an example of finding the Compartment ID.
<name></name>	Sets the name of the Bucket. Valid characters are upper-case or lower-case letters, numbers, hyphens, underscores, and periods.
<tier></tier>	Sets the storage tier type of this Bucket. This property can't be changed once the Bucket is created.

Example:

```
oci os bucket create --compartment-id
ocid1.tenancy.oc1..abcdefghijklmnopqrstuvwxyz1234567890
--name images --storage-tier Standard
```

Upload the QCOW

Upload the AR-Cloud QCOW as an Object to the created Bucket.

oci os object put --bucket-name <name> --file <file>

Table 4: oci os object put Command Parameters

<name></name>	The name of the Bucket to use. This is the Bucket from the "Create the Bucket" section.
<tier></tier>	The path to the QCOW file on your local PC.

Example:

```
oci os object put --bucket-name images
--file AR4000S-Cloud-1.8.3-5.5.3-1.1-rc1.cow
```

Create the Image

Finally, you can create the AR4000S-Cloud image using the uploaded QCOW.

```
oci compute image import from-object --compartment-id <id>
--namespace <namespace> --bucket-name <bucket> --source-image-type <type>
--name <name> --launch-mode <mode> --display-name <display-name>
--auth security_token
```

Table	5:	oci	os	objec	t put	Command	Parameters

<id></id>	The ID of the Compartment in which to create the Image. This is the Compartment ID of the Compartment created in the "Create the Compartment" section.
<namespace></namespace>	Namespaces span a full Tenancy. Within a namespace, Buckets cannot have the same name, even if in different Compartments. For this example, the default namespace automatically generated by Oracle Cloud for our Tenancy has been used. You can use the oci os ns get command to find the available namespaces. This should only return one Namespace, unless more have been configured.
<bucket></bucket>	The Bucket containing the object to create an Image from. This will be the Bucket in the "Create the Bucket" section.
<type></type>	The AR-Cloud for Oracle Cloud is a QCOW2 image.
<name></name>	The Object to create the Image from. This will be the Object created in the "Create the Image" section.
<mode></mode>	Sets the configuration mode for launching VM instances created with this image.
<display-name></display-name>	Sets the name of the Image being created.

Example:

```
oci compute image import from-object --compartment-id
ocid1.tenancy.oc1..abcdefghijklmnopqrstuvwxyz1234567890
--namespace abc123xyz890 --bucket-name images
--source-image-type QCOW2
--name AR4000S-Cloud-1.8.3-5.5.3-1.1-rc1.cow
--launch-mode PARAVIRTUALIZED --display-name AR-Cloud-Image
--auth security_token
```

Creating an AR4000S-Cloud Image with the Oracle GUI

The following section contains instructions on how to create an AR4000S-Cloud image in Oracle Cloud using the Oracle Cloud GUI. Instructions for using the Oracle CLI can be found in the "Creating an AR4000S-Cloud Image with the Oracle CLI" section.

Create the Oracle Cloud Compartment

An Oracle Cloud Compartment is required to associate all of your Oracle Cloud resources.

Note: If you already have an existing Compartment that you want to use, you may skip this step.

1. Navigate to the **Compartments** page.

X ORACLE Cloud	Search resources, services, documentation
Q Search	Identity & Security
Home	Identity Overview
Compute	Domains
Storage	Network Sources
Networking	Policies
Oracle Database	🖈 Compartments 🔓
Databases	Cloud Guard
Analytics & Al	Overview
Developer Services	Problems
Identity & Security	Recommendations
	Threat monitoring
Observability & Management	Targets
Hybrid	Responder activity
Migration & Disaster Recovery	Detector recipes
Billing & Cost Management	Responder recipes
Governance & Administration	Managed lists
Marketplace	Data masking Settinos

2. Click on the Create Compartment button.



3. Configure the detail for the new compartment. Once it is configured, click on the **Create Compartment** button.

Create Compartme	ent		Help
Name			
AR-Cloud			
Description			
Security Zone: - (i)			
Parent Compartment			
mparate Copedant			\$
Add tags to organize your resources.	What can I do with tagging	<u>?</u>	
Tag namespace	Tag key	Tag value	
None (add a free-form tag)	\$		×
			Add tag
Create Compartment			

Create the Bucket

Create an Oracle Cloud Bucket within the Compartment above.

- Note: If you already have an existing Bucket in the Compartment that you want to use, you may skip this step.
- 1. Navigate to the **Buckets** page.

X ORACLE Cloud		
Q Search	III Storage	
Home Compute	Block Storage Block Volumes Block Volume Backups	Object Storage & Archive Storage ☆ Buckets
Storage	Block Volume Replicas	ν5
Networking	Volume Groups	
Oracle Database	Volume Group Backups	
Databases	Volume Group Replicas	
Analytics & Al	Backup Policies	
Developer Services	File Storage	
Identity & Security	File Systems Mount Targets	
Observability & Management		

2. Select the compartment to create the bucket in. This will be the compartment from the "Create the Oracle Cloud Compartment" section.

Object Storage & Archive Storage	
Buckets	
List scope	
Compartment	
AR-Cloud	\$

3. Now open the bucket creation screen by clicking on the Create Bucket button.



4. Configure the details of the Bucket to be created.

ixet Name	
ault Storage Tier	
Standard	
Archive	
default storage tier for a bucket can only be specified during creation. Once set, you cannot change the storage tier in which a bucket resides. Learn more about storage tiers	
Automatically move intrequently accessed objects from the Standard tier to less expensive storage. Learn more	
Enable Object Versioning	
Emit Object Events	
Create automation based on object state changes using the Events Service.	
Uncommitted Multipart Uploads Cleanup	
Create a lifecycle rule to automatically delete uncommitted multipart uploads older than 7 days. Learn more	
avotion	
Encrypt using Oracle managed keys	
.eaves all encryption-related matters to Oracle.	
Encrypt using customer-managed keys	
exquires a valio key ironi a vauli una you nave access io. <u>Leanninore</u>	
Resource logging	
Enable resource logging to allow resource tracking, troubleshooting, and data insights	6
Descurate leading displicat	ľ
Resource rogging disabled	L

The **Default Storage Tiers** sets the storage tier type of this Bucket. This property can't be changed after the Bucket is created.

Upload the QCOW

Next, upload the AR-Cloud QCOW as an Object to the created Bucket.

1. Navigate to the **Buckets** page.

	Search resources, services, documentation, and Marketplace	
Q Search	III Storage	
Home Compute	Block Storage Block Volumes Block Volume Backups	Object Storage & Archive Storage ☆ Buckets
Storage	Block Volume Replicas	20
Networking	Volume Groups	
Oracle Database	Volume Group Backups	
Databases	Volume Group Replicas	
Analytics & Al	Backup Policies	
Developer Services	File Storage	
Identity & Security	File Systems Mount Targets	
Observability & Management		

2. Select the destination bucket of the object. This will be the bucket created in the "Create the Bucket" section.

Buckets in AR-Clo	ud Compart	tment
bject Storage provides unlimited, hi	gh-performance, durabl	e, and secure data storage
Create Bucket		
Name	•	Default Storage Tier
images .		Standard

3. From the **Bucket Details** page, under the **Objects** section, click on the **Upload** button.

Resources	Objects
Objects	Upload More Actions -
Metrics	□ Name

4. Select and confirm the files to upload. This will be a QCOW file from your local PC. An example file-name would be **AR4000S-Cloud-5.5.3-1.1.cow**. Click on the **Upload** button to upload the file.

Upload Objects	<u>Help</u>
Object Name Prefix Optional	
Storage Tier	
Standard	\$
Choose Files from your Computer	
নি> Drop files here or <u>select files</u>	
AR4000S-Cloud-5.5.3-1.1.cow 0 bytes	×
1 files, 0 bytes total ^o co Show Optional Response Headers and Metadata	
Upload <u>Cancel</u>	

Create the Image

Now an image can be created from the uploaded QCOW object.

1. Navigate to the **Custom Images** page.

X ORACLE Cloud	Search resources, services, documentation,
Q Search	Compute
Home Compute	Compute Overview ★ Instances
Storage Networking	Dedicated Virtual Machine Hosts Instance Configurations
Oracle Database Databases	Instance Pools Cluster Networks
Analytics & Al Developer Services	Compute Clusters Autoscaling Configurations
Identity & Security	Capacity Reservations
Hybrid	OS Management Scheduled Jobs
Migration & Disaster Recovery Billing & Cost Management	Work Requests Managed Instance Groups
Governance & Administration Marketplace	Sottware Sources CVEs Packages

2. Click on the **Import Image** button.



An image is a template of a virtual hard drive. It determines the operating system and oth



3. Configure the settings for the image to import. The table below describes some of the required settings for these fields.

Object name	The Object to create the Image from. This will be the Object created in the "Upload the QCOW" section.
Image type	The AR4000S-Cloud for Oracle Cloud is a QCOW2 image. This option must be set to QCOW2 .
Launch mode	The configuration mode for launching VM instances created with this image. This must be Paravirtualized mode .

Table 6: Import image settings

Import image		<u>Help</u>
Bucket in AR-Cloud (Change compartm	ient)	
images	:	\$
Object name		
AR4000S-Cloud-5.5.3-2.1.cow	:	\$
Image type VMDK Virtual machine disk file format. For disk images (used in virtual machines.	
• QCOW2 For disk image files used by QEMU.		
OCI For images that were exported from Oracle Cloue Launch mode	d Infrastructure. The launch mode is specified in the .oci file and can't be changed in the Conso	le.
OCI For images that were exported from Oracle Cloud Launch mode Firmware: BIOS	d Infrastructure. The launch mode is specified in the .oci file and can't be changed in the Conso NIC attachment type: PV NIC	le.
 OCI For images that were exported from Oracle Cloud Launch mode Firmware: BIOS Boot volume type: PV 	d Infrastructure. The launch mode is specified in the .oci file and can't be changed in the Consc NIC attachment type: PV NIC Remote data volume: PV	le.
 OCI For images that were exported from Oracle Cloud Launch mode Firmware: BIOS Boot volume type: PV Paravirtualized mode For virtual machines that <u>support paravirtualized</u>. Emulated mode For virtual machines that <u>don't support paravirtual</u> 	d Infrastructure. The launch mode is specified in the .oci file and can't be changed in the Conso NIC attachment type: PV NIC Remote data volume: PV drivers, created outside of Oracle Cloud Infrastructure.	r vir-
 OCI For images that were exported from Oracle Cloud Launch mode Firmware: BIOS Boot volume type: PV Paravirtualized mode For virtual machines that <u>support paravirtualized</u> Emulated mode For virtual machines that <u>don't support paravirtual</u> tual machines. 	d Infrastructure. The launch mode is specified in the .oci file and can't be changed in the Conso NIC attachment type: PV NIC Remote data volume: PV drivers, created outside of Oracle Cloud Infrastructure. alized drivers, created outside of Oracle Cloud Infrastructure from older on-premises physical o	r vir-
 OCI For images that were exported from Oracle Cloud Launch mode Firmware: BIOS Boot volume type: PV Paravirtualized mode For virtual machines that <u>support paravirtualized</u> Emulated mode For virtual machines that <u>don't support paravirtual</u> tual machines. Native mode For images that were exported from Oracle Cloud 	d Infrastructure. The launch mode is specified in the .oci file and can't be changed in the Conso NIC attachment type: PV NIC Remote data volume: PV drivers, created outside of Oracle Cloud Infrastructure. alized drivers, created outside of Oracle Cloud Infrastructure from older on-premises physical of d Infrastructure.	r vir-
 OCI For images that were exported from Oracle Cloud Launch mode Firmware: BIOS Boot volume type: PV Paravirtualized mode For virtual machines that <u>support paravirtualized</u> Emulated mode For virtual machines that <u>don't support paravirtual</u> tual machines. Native mode For images that were exported from Oracle Cloud Show tagging options 	d Infrastructure. The launch mode is specified in the .oci file and can't be changed in the Conso NIC attachment type: PV NIC Remote data volume: PV drivers, created outside of Oracle Cloud Infrastructure. alized drivers, created outside of Oracle Cloud Infrastructure from older on-premises physical o d Infrastructure.	r vir-

4. Click on the **Import image** button.

Creating an AR4000S-Cloud VM with the Oracle GUI

Once you have created the image, using either the CLI or GUI, you can create the VM instance using the Oracle GUI.

- Note: Any SSH private keys generated by Oracle Cloud are not used by AR4000S-Cloud. A freshly created AR4000S-Cloud will ignore any Oracle Cloud generated SSH key pairs, and instead use password authentication with default credentials. Further, any authentication methods configured via Oracle Cloud will be ignored by AR4000S-Cloud.
- Note: AR4000S-Cloud does not support reporting runtime status information to Oracle Cloud. For this reason, Oracle Cloud may report false positive errors related to AR4000S-Cloud starting or running. Do not trust the validity of any Oracle Cloud runtime reporting, and attempt to connect to the AR4000S-Cloud to confirm if any issues did occur.
- 1. From the Navigation Menu of Oracle Cloud, select Compute -> Instances.



2. Click on the Create Instance button.



3. This will open the **Compute Instance** creation page. Enter a **Name** and **Compartment**. Select the Compartment created in the "Create the Oracle Cloud Compartment" section.



4. Click on the **Change image** button.

Image and sh	nape	Collapse
A <u>shape</u> is a templat an instance. The ima	te that determines the number of CPUs, amount of memory, and other resources all age is the operating system that runs on top of the shape.	ocated to
Image		
ORACLE Linux	Oracle Linux 8 Image build: 2023.12.13-0 Change	image

5. Select My Images and the Custom images radio button.



6. Select the **Compartment** created in the "Create the Oracle Cloud Compartment" section.

Compartment
AR-Cloud
AR-Cloud

7. From the list of **Custom image names**, select the Image created in the "Create the Image" section.

	Custom image name
	AR4000S-Cloud-5.5.3-2.1.cow
1 sele	ected

- 8. Confirm the selected image by clicking the **Select image** button. This will close the side-panel.
- 9. Next, select a Shape. This is a template for the amount of resources the created AR4000S-Cloud instance will have access to. Click on the **Change Shape** button.

Image and shape	Collapse
A <u>shape</u> is a template that determines the number of CPUs, amount of memory, and other resou an instance. The image is the operating system that runs on top of the shape.	irces allocated to
Image	
AR4000S-Cloud-5.5.3-2.1.cow	Change image
Shape	
VM.Standard.E4.Flex Virtual machine, 1 core OCPU, 16 GB memory, 1 Gbps network bandwidth	Change shape

10. Select the details for your VM.

Browse all shapes								
A shape is a template that determines the number of CPUs, amount of memory, and other resources allocated to a newly created instance.								
Instance type	nstance type							
Virtual machine		Bare met	Bare metal machine					
A virtual machine is an inde environment that runs on te metal hardware.	A bare metal compute instance gives you dedicated physical server access for highest performance and strong isolation.				ited and			
Shape series	Shape series							
AMD	AMD Intel			Specialty and		i I		
AMDA Flexible OCPU count. Current gen- eration AMD processors.	Flexible OCPU count. Current gen- eration Intel processors.	Агт-і ргосе	Arm-based processor.		previous generation Always Free, Dense I/O, GPU, HPC, Generic, and earlier generation AMD and Intel standard shapes.			
Image: Custom Custom								
Shape name		OCPU (i)	Memory (GE	3)	Security			
VM.Standard.E2.1.N	Always Free-eligible	1		1		~		
VM.Standard.E3.Fle	VM.Standard.E3.Flex			i max)	0			
Select shape Cancel]					-		

For running AR4000S-Cloud, we recommend to **VM.Standard3.Flex** with at least **2 OCPUs** and **4GB of memory**.

You can customize other resources sca	the number ale proportio	of OCPUs and nately. <u>Learn n</u>	the amount of n nore about flexib	nemory allocated to a flea le shapes.	xible shape. The
Number of OCPUs	0			Extended OC	PU (i)
2	12	22	43	64	1
Amount of memory	(GB) (i) O			Extended m	emory
	4	342	683	1024	17
4 Burstable	4	342	683	1024	

- 11. Click on the **Select shape** button to confirm the chosen Shape for the AR-Cloud instance.
- 12. Under the **Primary VNIC** information section, select the **Create new virtual cloud network** and **Create new public subnet** radio buttons. You can specify a name for each of these, as well as for the VNIC.

Primary VNIC information		Collaps
A <u>virtual network interface card (VNIC)</u> connet and outside the VCN. Having a public IP addr	cts your instance to a <u>virtual cloud network (VC</u> ess is required to make this instance accessibl	<u>N)</u> and endpoints in e from the internet.
VNIC name Optional		
AR-Cloud		
Primary network Select existing virtual cloud network ••••••••••••••••••••••••••••••••••••	Create new virtual cloud network 🛛 🔿 Enter sub	net OCID
New virtual cloud network name	Create in compartment	
network1	AR-Cloud	\$
Subnet An IP address from a public subnet and an <u>in</u> accessible from the internet.	ternet gateway on the VCN are required to mak	e this instance
	blic subnet	
Select existing subnet Create new pull		
 Select existing subnet Create new pull New subnet name 	Create in compartment	
Select existing subnet Greate new pul New subnet name AR-Cloud-IP-Block1	Create in compartment	\$
Select existing subnet Create new pullow subnet name AR-Cloud-IP-Block1 CIDR block	Create in compartment AR-Cloud	\$

13. Select the Automatically assign IPv4 address radio button and the Automatically assign public IPv4 address check-box.



14. The SSH private key generated by Oracle Cloud is not used by AR-Cloud. Refer to the Secure Shell (SSH) Feature Overview and Configuration Guide to configure an SSH key to authenticate connecting users.

Add SSH keys					
Generate an <u>SSH key pair</u> to connect to the instance using a Secure Shell (SSH) connection, or upload a public key that you already have.					
• Generate a key pair for me OUpload public key files (.pub) OPaste public keys ONo SSH keys					
(i) Download the private key so that you can connect to the instance using SSH. It will not be shown again.					
<u>↓</u> Save private key <u>↓</u> <u>Save public key</u>					

15. Once you have completed all the configuration, click on the **Create** button. Creating the instance may take several minutes.

1	AR-Cloud-Instance Marge Free Start Stop Reboot Terminate More actions Instance information Shielded instance Orac	sle Cloud Agent Notifications Tags
RUNNING	General information Availability domain: AD-1 Fault domain: FD-2 Region: ap-sydney-1 OCID: _rstSaShow_Copy. Launched: Mon, Jan 8, 2024, 00:15:41 UTC Compartment:	Instance access We're not quite sure how to connect to an instance that uses this image. Refer to the image's documentation, or see the general steps to connect to a running instance. Public IP address: "=0!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

16. Once created, you can connect to the AR4000S-Cloud instance over SSH via the following command:

ssh <public-ip-of-vm>

Alternatively, you can connect using the Device GUI via HTTPS on port 443:

https://<public-ip-of-vm>

where <public-ip-of-vm> is the IP address listed in Public IPv4 address on the Compute Instance information page shown above.

Note: HTTP on port 80 is blocked by default.

Updating an AR-Cloud VM on Oracle

You can use either the Web GUI or CLI to update the firmware of this product. Follow the steps below to update.

Updating using the Web GUI

- 1. Access the web GUI of this product.
- 2. From the menu on the left side of the screen, select **System > File Management** to open the file management screen. Click the **Upload** button to upload the new ISO image file to this product.

۲	Network Services	~	Flash Usage				
-	User Management		1%			308.	.0K / 3.9G
٠	System	~					
	About File Management		/fs /flash		G	Jpload Generate	Tech Support
	License Management		Name 🗸	Modified —	Size(bytes) —	Actions	
	Services Time		default.cfg	7/25/2023, 1:14:59 AM	668	C Download	Telete
			log	7/22/2023, 2:33:00 AM			
		-					

- 3. Click the **Browse** button in **Set Boot Release File** on the **File Management** screen, and select the new firmware.
- Note: Firmware downgrades are not supported. Specify an ISO image file that is newer than the version currently in use.



Boot Management	×
Select system file	flash:/AR4000S-Cloud-5.5.3-1.1.iso
flash:/AR4000S-Cloud-5.5.3-1.1.iso	
	Unset Apply

4. Press the **Reboot** button on the file management screen to restart this product.

a	Dashboard	*						
*	Wizard	~	File Ma	ile Management				
₿	Security	~						
C	Licensed Features	~	Set Boot Releas	se File				
۲	Network Infrastructure	~	Current:	AR4000S-Cloud-5.5.3-1.1.iso	Browse			
۲	Network Services	~	Set Boot Config	j File				
-	User Management		Current:	flash:/default.cfg	Browse			
٠	System	~	Backup:	Not Set	Browse			

Updating using the CLI

1. Access the command line interface (CLI) of this product and enter privileged exec mode.

awplus> enable

2. Download the new ISO image file to the product using the copy command. The following is an example of downloading from an HTTP server with an ISO image file.

```
awplus# copy http://example.com/ISO-Images/AR4000S-Cloud-5.5.2-0.3.iso
flash:
```

- 3. Specify the ISO image file downloaded with the software-upgrade command.
- Note: Firmware downgrades are not supported. For the **software-upgrade** command, specify an ISO image file that is newer than the version currently in use.

awplus# software-upgrade AR4000S-Cloud-5.5.2-0.3.iso

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

Upgrade started, the change will take effect after rebooting the device.

4. Restart with the reload command.

awplus# reload reboot system? (y/n): y

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Allied Telesis

NETWORK SMARTER

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