

AirWave 8.2.14.1

Release Notes



a Hewlett Packard
Enterprise company

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The following table lists the revision numbers and the corresponding changes that were made in this release:

Table 1: *Revision History*

Revision	Change Description
Revision 02	Added bug DE32010 in the Known Issues section.
Revision 01	Initial release.

AirWave 8.2.14.1 is a patch release that introduces new features and provides fixes to known issues. Refer to these release notes for the most up-to-date information.

These release notes contain the following chapters:

- [New Features in AirWave 8.2.14.1](#) describes new features in this release.
- [Resolved Issues in AirWave 8.2.14.1](#) describes the issues we've fixed.
- [Known Issues in AirWave 8.2.14.1](#) describes known issues.
- [Upgrade Instructions](#) describes how to upgrade your software.

Related Documents

The following guides are part of the complete documentation for the AirWave:

- *AirWave Getting Started Guide*
- *AirWave User Guide*
- *AirWave CLI Reference Guide*
- *AirWave API Guide*
- *AirWave Installation Guide*
- *AirWave Instant Deployment Guide*
- *AirWave Supported Devices Guide*
- *AirWave Switch Configuration Guide*
- *AirWave Controller Configuration Guide*
- *AirWave Security Deployment Guide*
- *AirWave Best Practice Guide*
- *AirWave Failover Guide*
- *AirWave Help Desk Guide*
- *AirWave Integration Design Guide*
- *AirWave Integration Matrix Guide*
- *AirWave NMS Integration Guide*
- *AirWave RAPIDS User Guide*
- *AirWave Server Sizing Guide*

Terminology Change

As part of advancing HPE's commitment to racial justice, we are taking a much-needed step in overhauling HPE engineering terminology to reflect our belief system of diversity and inclusion. Some legacy products and publications may continue to include terminology that seemingly evokes bias against specific groups of people. Such content is not representative of our HPE culture and moving forward, Aruba will replace racially insensitive terms and instead use the following new language:

Usage	Old Language	New Language
Campus Access Points + Controllers	Master-Slave	Conductor-Member
Instant Access Points	Master-Slave	Conductor-Member
Switch Stack	Master-Slave	Conductor-Member
Wireless LAN Controller	Mobility Master	Mobility Conductor
Firewall Configuration	Blacklist, Whitelist	Denylist, Allowlist
Types of Hackers	Black Hat, White Hat	Unethical, Ethical

Contacting Support

Table 2: *Contact Information*

Main Site	arubanetworks.com
Support Site	https://asp.arubanetworks.com/
Airheads Social Forums and Knowledge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephone	arubanetworks.com/support-services/contact-support/
Software Licensing Site	lms.arubanetworks.com
End-of-life Information	arubanetworks.com/support-services/end-of-life/
Security Incident Response Team	Site: arubanetworks.com/support-services/security-bulletins/ Email: aruba-sirt@hpe.com

AirWave introduces new features and fixes to issues detected in previous releases. There are no licensing changes in this release.



For a complete list of supported products and validated firmware versions, refer to the AirWave 8.2.14.1 *Supported Infrastructure Devices*.

Important Changes

AirWave introduces the following changes to functionality:

- **AngularJS Version**—The version of AngularJS is upgraded to 1.8.0 version from 1.7.8 version.
- **jQuery Version**—The version of jQuery is upgraded to 3.5.0 version.
- **HighchartsJS version**—The version of HighchartsJS is upgraded to 6.1.1 version.

New Features

Email Alerts for AP Down Events

AirWave 8.2.14.1 allows you to generate an email alert for each of the APs, when the controller present in the cluster goes down.

Support for Aruba USB LTE Modem for an IAP

AirWave 8.2.14.1 introduces Aruba USB LTE Modem support for an IAP. To automatically apply Aruba USB LTE Modem as the primary uplink when the Ethernet uplink fails, configure the GPS cellular uplink profiles. For more information, see *AirWave Instant Deployment Guide* document.

Support for ArubaOS-CX 6000 and ArubaOS-CX 10000 Switch Series

AirWave 8.2.14.1 introduces support for ArubaOS-CX 6000 and ArubaOS-CX 10000 switch series. For more information, see *AirWave Supported Infrastructure Devices* document.

Support for Aruba USB LTE Modem for a Remote AP

AirWave 8.2.14.1 introduces Aruba USB LTE Modem support for a Remote AP.

Support for 9240, 9240 Silver, and 9240 Gold Controllers

AirWave 8.2.14.1 introduces support for 9240, 9240 Silver, and 9240 Gold controllers. For more information, see *AirWave Supported Infrastructure Devices* document.

Support for AP-655 Access Point

AirWave 8.2.14.1 introduces support for AP-655 access point.

For more information, see ***AirWave Supported Infrastructure Devices*** document.

Support for AP-584, AP-585, AP-587, AP-585EX, and AP-587EX Access Point

AirWave 8.2.14.1 introduces support for AP-584, AP-585, AP-587, AP-585EX, and AP-587EX access points.

For more information, see ***AirWave Supported Infrastructure Devices*** document.

Support for MU-MIMO uplink for 6 GHz Radio Bands

AirWave 8.2.14.1 allows you to configure the MU-MIMO uplink for 6 GHz radio bands. It allows multiple clients connected to the Instant AP (IAP) to send acknowledgment responses simultaneously, which resulted in improved network throughput and efficiency.

For more information, see ***AirWave Instant Deployment Guide*** document.

Triggers and Alerts for Temperature Degree

AirWave 8.2.14.1 allows you to set a trigger to send an alert when the temperature of the router or switch exceeds the set value.

Temperature Parameter for ArubaOS-CX Switches

AirWave 8.2.14.1 now supports the temperature parameter that indicates the temperature of the ArubaOS-CX and Mobility Access switches. The **Temperature** parameter is only available for ArubaOS-CX 4100, 6000, 6100, 6200, 6300, 6405, 6410, 8360, and 8400 series switches running firmware version 10.9 or later.

This section describes the issues resolved in this release.

Table 3: *Resolved Issues in AirWave 8.2.14.1*

Bug ID	Description	Reported Version
DE35379	The docker's IP address collided with loopback's subnet (127.0.0.x) that restarted the PAPI process.	AirWave 8.2.12.1
DE35388	In the AMP server, the status update of the Cisco APs were delayed and the new Cisco APs were not discovered.	AirWave 8.2.12.1
DE35399	AirWave 8.2.13.1 web application used a JavaScript library that contained at least one vulnerability. A vulnerability was found in Angular up to 11.0.4/11.1.0-next.2 on npm (JavaScript library) that was classified as problematic. An unknown function of Application Handler was affected which manipulated with an unknown input that lead to a cross-site scripting vulnerability.	AirWave 8.2.13.1
DE35430	The finalized values of the receive sensitivity parameter for AP-655 access points were used in VisualRF in AirWave 8.2.14.1.	AirWave 8.2.14.0
DE35477	The APs were down in the AirWave server.	AirWave 8.2.13.1
DE35498	AirWave failed to push configuration changes from the conductor console due to a deadlock error.	AirWave 8.2.13.0
DE35501	The Conductor console upgrade failed in Database Schema check due to mismatched primary keys.	AirWave 8.2.10.1
DE35503	A drop in the client count was observed as DNS servers were not properly configured in AirWave.	AirWave 8.2.13.0
DE35504	The AMP server created partial backups for HPE Aruba switches.	AirWave 8.2.10.1
DE35506	In AirWave 8.2.13.1, Radius authentication failed when a special character was used in the username.	AirWave 8.2.13.1
DE35508	The controller cluster name was not displayed in the AMP alert e-mail generated by the Controller Cluster Trigger .	AirWave 8.2.13.0
DE35533	AirWave 8.2.14.1 addressed the new RPM package-version related vulnerabilities.	AirWave 8.2.13.1
DE35534	The controller cluster displayed incorrect values for Max Controller Failures Withstand Count in the AirWave WebUI.	AirWave 8.2.13.1
DE35535	The pgsql and messages log file size was huge and the log rotation failed.	AirWave 8.2.13.1

Bug ID	Description	Reported Version
DE35541	AirWave 8.2.14.1 marked the status of all the APs associated to a controller as down, if the controller is down.	AirWave 8.2.13.1
DE35543	The reports were stuck in a pending state and failed to complete in Master Console.	AirWave 8.2.10.1
DE35565	After upgrading AirWave, the configuration change jobs were deleted from the System > Configuration Change Jobs page.	AirWave 8.2.13.0
DE35566	The Daily Channel Change report generation failed and the awrrdtool unexpectedly exited error message was displayed in the Reports > Detail page.	AirWave 8.2.13.0
DE35570	The scriptorium.1 log file size increased rapidly and filled up the /var/log directory.	AirWave 8.2.14.1
DE35577	AirWave displayed an incorrect icon for the AP-577 access point in the VisualRF > FloorPlans > Add Planned APs page.	AirWave 8.2.13.1
DE35579	AirWave addressed the Lodash and Highcharts vulnerabilities.	AirWave 8.2.13.0
DE35581	In the VisualRF > FloorPlans page, the Heatmap History Scale broke when Meters was selected.	AirWave 8.2.13.0
DE35600	After adding a new failover license, RRDCached continuously restarted on the failover server.	AirWave 8.2.13.1
DE35605	The interface name translation during startup was fixed to handle en049, eno50 onboard 10G interface Linux names.	AirWave 8.2.13.1
DE35606	In AirWave 8.2.13.1 version, Radio 1 was displayed as bgn for AP-500 series access points.	AirWave 8.2.13.1
DE35608	AirWave deployments were impacted by CVE-2021-44790 and 44224 Apache vulnerabilities.	AirWave 8.2.13.1
DE35623	The LDAP-S authentication failed due to unsupported cipher suites used by AirWave server.	AirWave 8.2.14.0
DE35681	After upgrading to AirWave 8.2.14.1, the AMP feeder version was downgraded.	AirWave 8.2.14.0

This section describes the known issues and limitations observed in this release.

Known Issues

Following are the known issues observed in this release:

Table 4: *Known Issues in AirWave 8.2.14.1*

Bug ID	Description	Reported Version
DE35660	When you export the CSV file of the Clients > Connected Clients page, there is a discrepancy in column names of the Connected Clients table.	AirWave 8.2.14.1
DE32010	If a hostname was not provided for the AMP server, the AMP Setup > Network page will not respond if hostname returns <i>localhost.localdomain</i> . This issue occurs when trying to save the form with the hostname set to <i>localhost.localdomain</i> . Workaround: From the AMP CLI menu, select 8 to open the Advanced menu , then select 4 to set the hostname of the AMP server. Changing the hostname restart the AMP services.	AirWave 8.2.7.2

This chapter provides the following information to help you with the upgrade process of the AirWave server:

- [Minimum Requirements](#)
- [Verify Current CentOS Version](#)
- [Upgrade Paths](#)
- [Upgrade from AirWave 8.2.9.x or 8.2.10.x with CentOS 6 Migration](#)
- [Upgrade from AirWave 8.2.4.3, 8.2.10.x, 8.2.11.x, 8.2.12.x, 8.2.13.x, or 8.2.14.x with CentOS 7](#)

Minimum Requirements

Ensure that you have sufficient disk storage, memory, and relevant hardware or software versions. As additional features are added to AirWave, increased hardware resources become necessary and hardware requirements vary by version. For the most recent hardware requirements, refer to the latest *AirWave Server Sizing Guide*.

Verify Current CentOS Version

Before you upgrade, verify the version of CentOS currently running on your AirWave server.

1. From the AirWave command-line interface, enter **8** to select **Advanced**, then enter **2** to select **Enter Commands**.
2. Enter the command `$osrel`.

The output of this command displays the version of CentOS currently in use. Use this information to determine your upgrade path.

Upgrade Paths

Your upgrade workflow depends on your current version of AirWave and CentOS.

- To upgrade from AirWave 8.2.9.x or AirWave 8.2.10.x with CentOS 6, follow the steps in [Upgrade from AirWave 8.2.9.x or 8.2.10.x with CentOS 6 Migration](#).
- To upgrade from AirWave 8.2.4.3, AirWave 8.2.10.x, AirWave 8.2.11.x, AirWave 8.2.12.x, AirWave 8.2.13.x, or AirWave 8.2.14.x with CentOS 7, follow the steps in [Upgrade from AirWave 8.2.4.3, 8.2.10.x, 8.2.11.x, 8.2.12.x, 8.2.13.x, or 8.2.14.x with CentOS 7](#).



If you are upgrading from AirWave 8.2.8.x or earlier version, contact [Technical Support](#) for help with a multiple-step upgrade path.

Upgrade from AirWave 8.2.9.x or 8.2.10.x with CentOS 6 Migration

AirWave 8.2.14.x requires an upgrade to CentOS 7. The migration process involves upgrading to AirWave 8.2.10.1, backing up your data, exporting the backup file, performing a fresh install of AirWave 8.2.10.1 and CentOS 7 on your server, restoring the backup data onto that server, and then upgrading to AirWave 8.2.14.x.

After you perform this upgrade, follow the steps in [Upgrade from AirWave 8.2.4.3, 8.2.10.x, 8.2.11.x, 8.2.12.x, 8.2.13.x, or 8.2.14.x with CentOS 7](#) to upgrade to AirWave 8.2.14.1.

Upgrade to AirWave 8.2.10.1 before backing up your data. You cannot restore an AirWave 8.2.8.x, 8.2.9.x, or 8.2.10.0 (on CentOS 6) backup on an AMP server running AirWave 8.2.14.x. For more information on creating backups of your data, refer to the **System Pages** section of the AirWave User Guide. For information on performing a fresh installation of AirWave 8.2.14.x, refer to the AirWave Installation Guide.



Upgrades from AirWave 8.2.8.x, 8.2.9.x, or 8.2.10.0 on CentOS 6 might fail with the following PuTTY fatal error message: **Server unexpectedly closed network connection** when your SSH session becomes unresponsive.

To avoid this issue, change the keep-alive interval to a low setting as follows:

1. Using a terminal console, such as PuTTY, open an SSH connection with the AMP.
 2. Enter 30 to 60 seconds for sending null packets between keep-alive messages.
-

Before You Begin

Prior to migration, navigate to **Home > License** and save a copy of the license key. AirWave licenses are associated with the server IP address. All new installations of AirWave have a 90-day grace period for licenses.

Keep these considerations in mind when working with AirWave licenses:

- If you plan to reuse the same IP address, then apply the license key after you restore the AirWave 8.2.14.x backup.
- If you are planning to migrate data to a new server, work with Aruba support or use the license portal, to generate the new license in advance, then follow the migration path and apply the new license key. Keep in mind that you may have to adjust some devices (such as Instant APs and devices that send AMON or syslog messages to AirWave) in order for those devices to send updates to the new IP address.

Step 1: Upgrade to AirWave 8.2.10.1

1. Log in to the AirWave server with the **ampadmin** user name and password. If you previously changed the ampadmin user name and password, enter the current credentials.
2. Enter **4** to select **System**.
 - a. At the next prompt, enter **1** to select **Upgrade**, then enter **1** to select **UpgradeAirWave Management Software**.
 - b. Select the option for **8.2.10.1**.



If the **8.2.10.1** software does not appear in the list of local upgrade versions, select option **2 None of the Above**, then manually enter **8.2.10.1**.

- c. Enter **y** to enable AirWave to connect to a proxy server. Or, you can enter **N** to bypass this step and go to [step on page 11](#) to download the software. At the next prompt:

- Enter the server address and port number (for example, *test.proxy.com* and port 22).
 - Enter **y** to enter the proxy user name and password (for example, *testuser* and *password*).
- d. Enter **1** or **2** to log in to your customer portal with your support user name and password.
 - e. Follow the on-screen instructions to download the software.

Step 2: Back up your AirWave 8.2.10.x Data

1. Log in to the AirWave server with the **ampadmin** user name and password. If you previously changed the **ampadmin** user name and password, enter the current credentials.
2. Enter **2** to select **Backup**.
3. Enter **1** to open the **Backup** menu.
4. Enter **1** to select the **Backup Now** option.

Step 3: Export the Backup

1. After creating your backup, enter **b** to return to the previous **Backups** menu.
2. Enter **5** to open the **Users** menu options, then enter **3** to add a file transfer user.
3. Enter a user name for the file transfer user, then click **Enter**. The user name for an AirWave image file transfer user must be five characters or longer, and contain only lowercase letters and numbers. To use the default file transfer user name **awscp**, click **Enter** without entering a user name.
4. Enter a password for the file transfer user, then click **Enter**. The password must be eight characters or longer, and can contain uppercase and lowercase letters, numbers, and non-alphanumeric characters. Spaces are not allowed.
5. Enter **b** to go back to the main CLI menu.
6. Use SCP to connect to your remote repository and move the AirWave 8.2.10.1 backup file from the **AirWave/user** directory to a remote server.

Step 4: Migrate to CentOS 7

Perform a fresh installation of AirWave 8.2.10.1 to automatically upgrade CentOS 6.x to CentOS 7.



For more information on installing a new instance of AirWave 8.2.10.1 on your server, refer to the AirWave 8.2.10.1 Installation Guide, *Pre-Installation Checklist*.

Step 5: Upload the Backup

Follow one of these steps to upload the backup on the AirWave server:

- If using SCP, enter **1-1** to open the **File** and **Upload File** menus. Provide the user name, host, and path for an SCP server using FIPS-approved encryption.
- If using SFTP, enter **5-3** to open the **User** and **Add File Transfer User** menus. Log in from another system using those credentials, and upload the backup.

Step 6: Restore the Data

Follow these steps to restore the backup on AirWave 8.2.10.1:

1. From the AMP CLI, enter **2-2** to open the **Backups** and **Restore** menus.
2. Enter **1** to restore the server from the uploaded backup.

Step 7: Install Certificates

In this step, you will add an SSL certificate, or generate a certificate signing request and install a signed certificate.

To add the SSL certificate:

1. From the command-line interface, enter **3-4** to open the **Configuration** and **Certificates** menus.
2. Enter **1** to open the **Add SSL Certificate** menu.
3. Follow the prompt to install the SSL certificate on your AMP server. The signed certificate should be in PKCS12 format with a *.pfx or *.p12 file extension.

To generate a CSR and install the certificate:

1. From the command-line interface, enter **3-4** to open the **Configuration** and **Certificates** menus.
2. Enter **2** to open the **Generate Certificate Signing Request** menu.
3. Follow the prompt to create a CSR that identifies which server will use the certificate.
4. Next, enter **b** to return to the previous menu,
5. Enter **1-2** to open the **Files** and **Download File** menu to download the resulting CSR.
6. Send the CSR to your certificate signer.
7. Once the certificate is signed, upload the certificate to the AirWave 8.2.10.1 server.
 - If using SCP, enter **1-1** to open the **File** and **Upload File** menus. Provide the user name, host, and path for an SCP server using FIPS-approved encryption.
 - If using SFTP, enter **5-3** to open the **User** and **Add File Transfer User** menus. Log in from another system using those credentials, and upload the backup.
8. From the WebUI, go to **Device Setup > Certificates**, then click **Add** to add a trusted root CA certificate. To add a new certificate, provide the following information:
 - **Name**—Name of the certificate.
 - **Certificate File**—Click **Choose File** to find the certificate file on your local system, then click **Open**.
 - **Passphrase**—Select a password.
 - **Confirm Passphrase**—Retype the passphrase to confirm.
 - **Format**—Select the certificate format from the drop-down list.
 - **Type**—Select the certificate type from the drop-down list.
9. From the **3-4 Configuration** and **Certificates** menu, enter **3** to open the **Install Signed Certificate** menu.
10. Follow the prompts to install the certificate.

Step 8: Upgrade to Latest AirWave Version

Proceed to [Upgrade from AirWave 8.2.4.3, 8.2.10.x, 8.2.11.x, 8.2.12.x, 8.2.13.x, or 8.2.14.x with CentOS 7](#).

Upgrade from AirWave 8.2.4.3, 8.2.10.x, 8.2.11.x, 8.2.12.x, 8.2.13.x, or 8.2.14.x with CentOS 7

An upgrade from AirWave versions 8.2.4.3, 8.2.10.x, 8.2.11.x, 8.2.12.x, 8.2.13.x, or 8.2.14.x using CentOS 7 is straightforward and does not require a CentOS migration. If you are upgrading from AirWave versions 8.2.4.3, 8.2.10.x, 8.2.11.x, or 8.2.12.x upgrade to AirWave 8.2.13.x before upgrading to AirWave 8.2.14.1. Use the AMP CLI to install the AirWave 8.2.14.1 upgrade package on your system. If your network does not

allow AirWave to connect to the Internet, you must [manually download the software](#) and upload the software before performing this upgrade.



You can change the existing amprecovery user name by backing up the server, reinstalling the software, and restoring from the backup. For information about setting up the amprecovery account, refer to *Installing the Software (Phase 2)* in the *AirWave 8.2.14.1 Installation Guide*.

Follow these steps to upgrade to AirWave 8.2.14.1:

1. Log in to the AirWave server with the **ampadmin** user name and password. If you subsequently changed the "ampadmin" user name and password, enter the current credentials.
2. Enter **4** to select **System**.
 - a. At the next prompt, enter **1** to select **Upgrade**.
 - b. Select the option for **8.2.14.1**.



If the 8.2.14.1 software does not appear in the list of local upgrade versions, select option **2 None of the Above**, then manually enter **8.2.14.1**.

- c. Enter **y** to enable AirWave to connect to a proxy server. Or, you can enter **N** to bypass this step and go to [step on page 11](#) to download the software. At the next prompt:
 - Enter the server address and port number (for example, *test.proxy.com* and port 22).
 - Enter **y** to enter the proxy user name and password (for example, *testuser* and *password*).
- d. Enter **1** or **2** to log in to your customer portal with your support user name and password.
- e. Follow the onscreen instructions to download the software.

Upgrade to AirWave 8.2.14.1 in Aruba Central (on-premises) Server

If you are performing a fresh installation of AirWave 8.2.14.1 on Aruba Central (on-premises) servers, interfaces on the Aruba Central (on-premises) server will always be in the following order:

- eth0- eth3 – 1G interfaces
- eth4 and eth5 - 10G interfaces

If you are upgrading from a prior AirWave version to AirWave 8.2.14.1 on Aruba Central (on-premises) servers, the following message is displayed.

```
Running Upgrade
Local upgrade versions:
1. 8.2.14.1.20220405.001
2. 8.2.13.1
3. None of the above.

Which version? 1
Upgrading to 8.2.14.1.20220405.001. The system will be rebooted when the upgrade completes.
Proceed? (y/N) y
Upgrade script AMP-8.2.14.1.20220405.001-amp_upgrade was not found in local cache.
Upgrade package found in local cache.
Validating the upgrade package...
Using upgrade script extracted from local package.
Upgrade package found in local cache.

Vendor = VMware, Inc. , Product = VMware Virtual Platform

Old Version --> 8.2.13.1 ; New Version --> 8.2.14.1.20220405.001

Checking iptables.

Checking the database schema.
```


Perform the following steps on Aruba Central (on-premises) server Gen10 server with both 1G and 10G interfaces only.

1. Run upgrade to AirWave 8.2.14.1.
2. Post upgrade, run **intfinorder**, reboot, and configure network setup by entering the following options in AMP CLI:
 - a. Enter option **8 - Advanced**.
 - b. Enter option **1 - Custom Commands**.
 - c. Enter option **2 - Enter Commands**.
 - d. This will run the enter commands, execute **\$ intfinorder**.

```
Advanced
  1 Custom Commands >
  2 Enter Commands
  b >> Back
Your choice: 2

Running Enter Commands

Type 'help' for the list of commands.
$ intfinorder
Use this script on HPE physical appliance especially if you intend to use 10G ports.
Running this script will ensure interfaces are detected / named in the same order
everytime the system is rebooted. Not required to be run for systems using fresh installed 8.2.12
and beyond releases.

Please make sure you have console access. You need to reboot and do a network setup (AMPCLI->Configura
tion (3) -> Configure Network Settings(1)) post reboot after the execution of this command.

Do you want to continue (y/N)? : █
```

- e. Click **y** when prompted with **Do you want to continue (y/N)?** : message.
3. Type **exit** and navigate to the CLI prompt and select option **4 - System** and then, select option **4 - Reboot System** to reboot the system.

```
system
  1 Upgrade
  2 Disable AMP
  3 Restart AMP
  4 Reboot System
  5 Shutdown System (halt)
  6 Show SNMPv3 EngineID
  7 Module Key
  b >> Back
Your choice: 4

Running Reboot System

Are you sure? (y/n): y █
```

4. If you lose connection to Aruba Central (on-premises) server post step 3, login to the ILO/console of the server and navigate to the CLI prompt, and select option **3 - configuration** and option **1 - Configure Network Settings**.

```
Configuration
 1 Configure Network Settings
 2 Set Hostname
 3 Set Timezone
 4 Certificates >
 5 SSHD >
 6 CLT >
  b >> Back
Your choice: 1

Running Configure Network Settings

Running [/usr/local/airwave/bin/network_setup]...
Here are the ethernet interfaces with hardware present:

 1. eth0    new  28:67:7c:d9:65:bc
 2. eth1    new  28:67:7c:d9:65:bd
 3. eth2    new  28:67:7c:d9:65:be
 4. eth3    new  28:67:7c:d9:65:bf
 5. eth4    new  48:df:37:72:39:98
 6. eth5    new  48:df:37:72:39:98
 q. Quit

Which interface shall we configure?
```

5. Select the proper network interface and configure the IP address for your AMP and commit the changes. The AMP should be reachable with the IP address configured.

This will enable reliable ordering of interfaces in upgrade scenario that is, eth0 - eth3 mapped to 1G interfaces and eth4- eth5 mapped to 10G interfaces at the end. Once interfaces are set in proper order, future AMP upgrades will be smooth. The **\$ intfinorder** script should be run from the AMP CLI menu as described above for users using Aruba Central (on-premises) server after upgrading to AirWave 8.2.14.1 build.

Manually Download the Software

You can manually download the software if your AirWave server cannot access the Internet.

1. Go to the [Aruba Support Portal](#) or the [HPE My Networking Portal](#) to download the upgrade image. This new portal replaces the legacy Aruba support site (support.arubanetworks.com), which is currently read-only and will be deprecated sometime in the future.
2. Click the upgrade package, then click **Save** and install the file later.
3. Define a user that can transfer AirWave images, and then upload the software:



For security purposes, image file transfer users are automatically removed every night during nightly maintenance operations.

4. From the AMP command-line interface, with the **ampadmin** user name and password. If you subsequently changed the ampadmin user name and password, enter the current admin name and password.
5. Add a file transfer user. This process varies, depending upon the version of AirWave currently running on your system.
 - a. If you are upgrading from AirWave versions 8.2.10.x, 8.2.11.x, 8.2.12.x, 8.2.13.x, or 8.2.14.0, enter **5** to open the **Users** menu options, then enter **3** to add a file transfer user.

- b. *If you are upgrading from AirWave 8.2.9.x*, enter **8** to open the **Advanced** menu options, then enter **7** to add a file transfer user.
6. Enter a user name for the file transfer user, then click **Enter**. The user name for an AirWave image file transfer user must be five characters or longer, and contain only lowercase letters and numbers. To use the default file transfer user name **awsftp**, click **Enter** without entering a user name.
7. Enter a password for the file transfer user, then click **Enter**. The password must be eight characters or longer, and can contain uppercase and lowercase letters, numbers, and non-alphanumeric characters. Spaces are not allowed.
8. Enter **b** to go back to the main CLI menu.
9. Use SFTP to connect to your remote repository and upload the AirWave 8.2.14.1 upgrade file from the remote server into the AirWave **/user** directory.