

# Cloudpath Enrollment System VMware Server Deployment Guide, 5.8

**Supporting Cloudpath Software Release 5.8** 

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# **Specifications for On-Premise Deployed VMware Server**

Cloudpath supports virtual appliance deployments using a VMware ESXI server or a Microsoft Hyper-V Manager. For Hyper-V deployments, refer to the *Deploying Cloudpath as a Virtual Appliance Using Microsoft*  $^{\text{TM}}$  Hyper-V Manager configuration guide.

# **Cloudpath Virtual Appliance Specifications**

The Cloudpath virtual appliance is deployed as an open virtualization archive (OVA) file, which can be deployed on any VMware ESXi server (ESX or ESXi architecture 4.x and 5.x and greater).

#### NOTE

If using version 6.5 ESXi server, you must use a SHA-256 signed OVA.

Cloudpath offers a Non-Production POC, as well as several Production configurations for deployment. See the Deploying the Virtual Appliance Using a VMware vCenter Client section for details.

Cloudpath can be deployed to a cloud environment (multi-tenant), or as a virtual appliance in an on- premise deployed VMware ESXi server (single tenant).

# **Cloudpath as a Physical Appliance**

Cloudpath is delivered as a VMware virtual appliance. This provides the administrative simplicity of a traditional appliance, the resource flexibility of virtual machines, and avoids the logistical and physical constraints of physical servers. However, in some environments, physical appliances are preferred, either due to a lack of VMware infrastructure or due to administrator preference.

In these situations, Cloudpath may be treated similar to a physical appliance by placing it on a dedicated VMware vSphere ESXi server. ESXi is VMware's bare metal hypervisor and, unlike VMware's management platform vCenter, ESXi is free. It does require a VMware account to download and a license key to install, but these are available without charge from the VMware website.

When deployed in this model, size the physical server to have at least 2-4 GB of RAM greater than the virtual appliance requires. Additional RAM may be desirable to allow multiple VMs to be running concurrently.

#### What You Need

#### For Deployment

- OVA file for the Cloudpath virtual appliance
- VMware Client

#### For Virtual Appliance Initial Configuration

- FQDN Hostname of the virtual appliance
- A list of IP addresses that are allowed Administrative access (optional)
- Service account security credentials
- IP address, subnet mask, and gateway for the virtual appliance (not required if using DHCP)
- IP address of DNS server (not required if using DHCP)

#### For Cloudpath Account Setup

- URL for the VMware server where Cloudpath is deployed
- URL for the Cloudpath Licensing Server
- Login credentials for the Cloudpath Licensing Server
- Web certificate for the Cloudpath virtual appliance (public-signed)

#### Supported Browsers and Operating Systems

Refer to the Cloudpath Enrollment System Administration Guide for this information.

# **Deploying the Virtual Appliance to a VMware Server**

The deployment process consists of the following steps:

- Retrieve OVA File
- Deploying the Virtual Appliance Using a VMware vCenter Client

or

- Deploying the Virtual Appliance Using a Console-Based VMware Client
- Activate Account or Log In

#### Retrieve OVA File

If you are setting up a Cloudpath account for the first time, you will be sent an activation code in an email notification. For an on-premise deployment, the activation code link allows you to download the Cloudpath OVA, binding your OVA file to the activation code.

When the download is complete, deploy the OVA file using a VMware client.

# Deploying the Virtual Appliance Using a VMware vCenter Client

- 1. Open the VMware client.
- 2. Select File > Deploy OVF Template.
- 3. Enter the file path or URL where the OVA file resides.
- 4. Accept the EULA.
- 5. Enter a unique name for the virtual appliance.

#### Deploying the Virtual Appliance to a VMware Server

Deploying the Virtual Appliance Using a VMware vCenter Client

- 6. Select a deployment configuration:
  - Non-Production POC Deploys using 6GB RAM and 2 vCPUs x 1 Core. Recommended for software trials, feature testing, and other non-production systems.
  - 4,000 or Fewer Users Deploys using 8GB RAM and 2 vCPUS x 2 Cores. Recommended for production systems with fewer than 4,000 users
  - 8,000 or Fewer Users Deploys using 12GB RAM and 2 vCPUS x 4 Cores. Recommended for production systems with fewer than 8,000 users.
  - More than 8,000 Users Deploys using 16GB RAM and 2 vCPUS x 4 Cores. Recommended for production systems with more than 8,000 users.
  - More than 20,000 Users Deploys using 20GB RAM and 2 vCPUS x 4 Cores. Recommended for production systems with more than 20,000 users.
- 7. If you are using VMware vCenter<sup>™</sup> Server to manage your virtual environment, select the appropriate data center, cluster, host, and destination storage, as needed.
- 8. Select a disk format.
  - Use **Thick** provisioning for a production environment. For a thick provision, the total space required for the virtual disk is allocated during creation.

#### NOTE

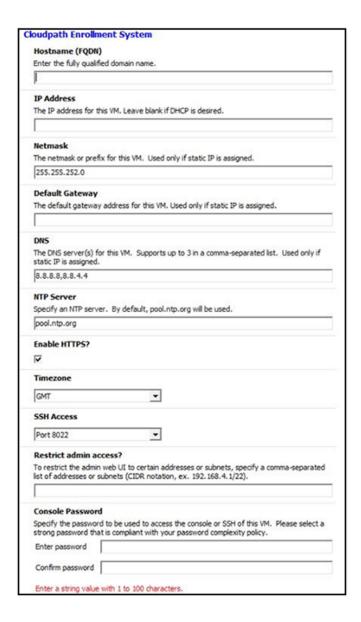
If you are using Fault Tolerance, you must select Thick provisioning.

- Use **Thin** provisioning for testing, or if disk space is an issue. A thin provisioned disk uses only as much datastore space as the disk initially needs. If the thin disk needs more space later, it can grow to the maximum capacity allocated to it.
- 9. Continue the configuration with vCenter, or a non-vCenter console.
  - If you are using the vCenter to configure application and network properties, continue to the next section.
  - If you are using the console to configure application and network properties, review the initial settings and click **Finish**. See Deploying the Virtual Appliance Using a Console-Based Client to complete the deployment process.

#### Application Properties (vCenter)

Customize the application properties for the deployment.

#### FIGURE 1 Application Properties



1. Enter the Hostname(FQDN) for the virtual appliance.

#### NOTE

The Cloudpath **Hostname** is used as the default **OCSP Hostname**, which is embedded into certificates issued by the onboard root CA as part of the URL for the Online Certificate Status Protocol (OCSP).

- 2. Enter the IP Address, Netmask, Default Gateway, and the DNS Servers for this VM. Leave blank for DHCP.
- 3. Specify an NTP Server or leave the default.
- 4. HTTPS is enabled by default. Leave unchecked only if Cloudpath is behind another web server using SSL.
- 5. Select the **Timezone**.
- 6. Select SSH port, or disable SSH access.

#### Deploying the Virtual Appliance to a VMware Server

Deploying the Virtual Appliance Using a VMware vCenter Client

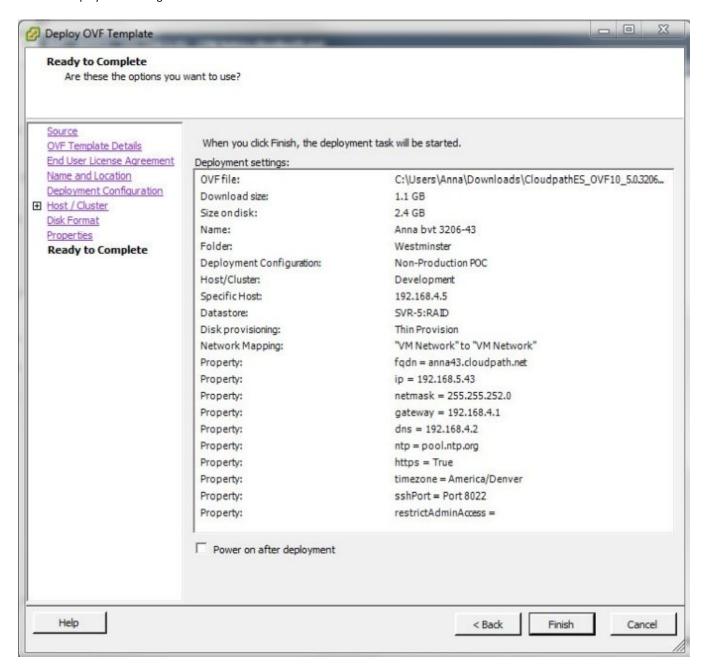
- 7. Enter the IP address(es) that can access the Cloudpath Admin UI. Leave this field blank if you do not want to limit administrative access.
- 8. Enter and confirm a **service user** password. The **service user** account is used by your support team for access to this system using SSH. The **service** account is not available if SSH access in not permitted.

#### **Confirm Deployment Settings (vCenter)**

1. Verify these properties before you begin the deployment.

If you are using DHCP, the networking properties will be blank.

FIGURE 2 Deployment Settings



#### 2. Click Finish

Deployment takes approximately 2 minutes.

## **Deploying the Virtual Appliance Using a Console-Based VMware Client**

Before you begin, read the list of information required to setup the system.

- 1. Open a console for the VM.
- 2. Enter yes (or y) to accept all license agreements.
- 3. Enter the time zone. For example, enter America/Denver.
- 4. Enter the FQDN hostname for the virtual appliance (ex., onboard.company.com).
- 5. Do you want to enable HTTPS? Enter for yes (default) or n.
- 6. Do you want to use a STATIC IP (rather than DHCP)? Enter for yes (default) or n.
  - If you enter yes (recommended), you assign the IP address of the virtual appliance, subnet mask, and gateway and DNS server IP addresses for your network.
  - If you enter no, DHCP is used to assign IP address of the virtual appliance eth0 interface, subnet mask, gateway, and DNS server IP addresses for your network. If you are not using DHCP, enter the IP address of the virtual appliance eth0 interface.
- 7. Enter the IP address of the virtual appliance.
- 8. Enter a subnet mask in the format 255.255.252.0.
- 9. Enter the gateway IP address for your network.
- 10. Enter the DNS server IP address.
- 11. Do you want to permit SSH access? Enter for yes (default) or n.
- 12. Enter and confirm a service password.

The **service** password is used by your support team for access to this system using SSH. Refer to the *Cloudpath Command Reference* on the **Support** tab for details.

#### NOTE

The service account is not available if SSH access in not permitted.

13. Do you want to use an NTP server other than pool.net.org? Enter for no (default) or y to specify an NTP server.

The setup is complete.

14. Press Enter to reboot the system.

After the reboot you are presented with the **shelluser** login prompt.

#### NOTE

The **shelluser** is only available during the initial system configuration. After the initial boot, you must use the **service** password to access the system.

#### Service Account

When the deployment is finished, you are presented with the service account login prompt.

To use the service account:

- 1. Enter **cpn\_service** at the login prompt, and then the service user password.
- 2. Enter the show config command to verify your configuration. You may be prompted to re-enter the password.

See the Cloudpath Command Reference on the left menu Support tab.

# **Activate Account or Log In**

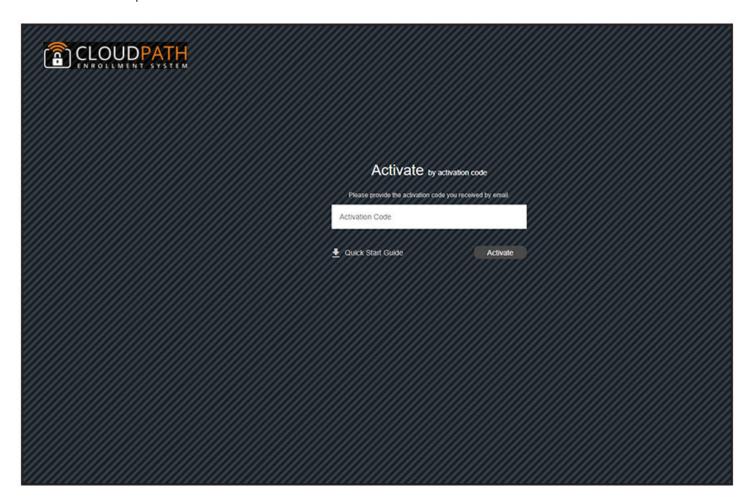
If you are setting up a Cloudpath account for the first time, you will be sent an activation code. If you have existing Cloudpath License server credentials, you can activate an account using those credentials.

Whether you create a new account with an activation code or with legacy Cloudpath credentials, the system binds the Cloudpath instance to your License Server credentials.

# **Activate Account by Activation Code**

If you have been sent an activation account, enter it on this activation page.

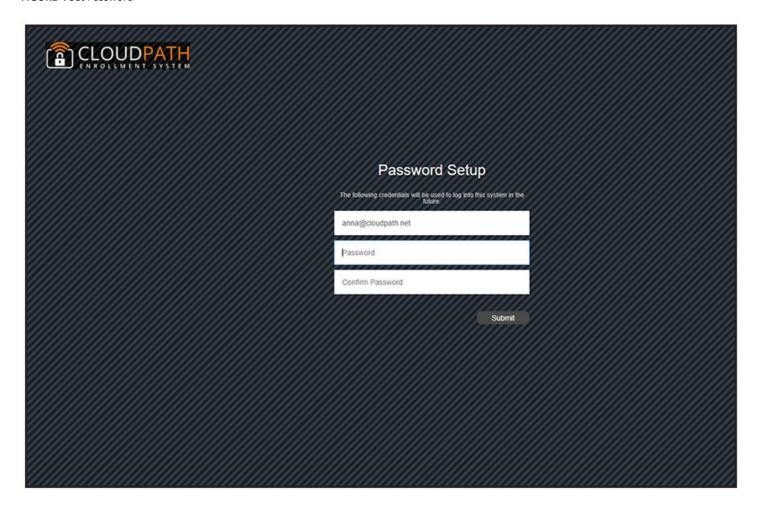
FIGURE 3 Activate Cloudpath Account



#### **Set a Password for Account**

If you have logged in with an activation code, you are prompted to set a password for this account.

#### FIGURE 4 Set Password



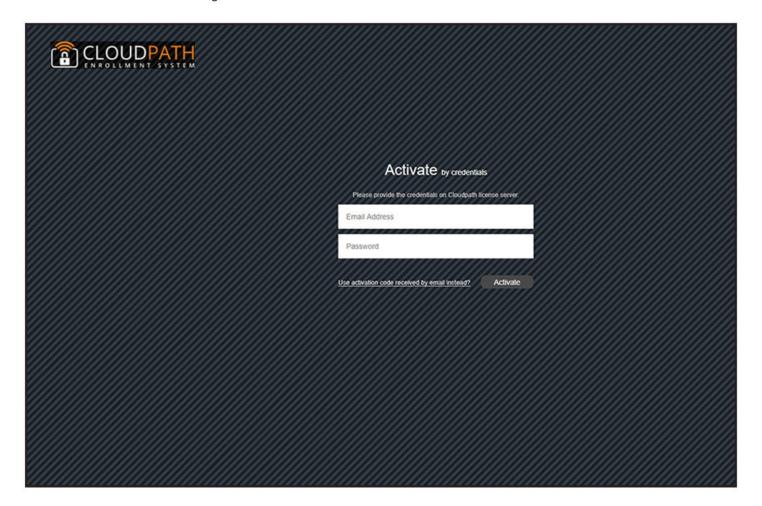
- 1. Your email address should display. If it does not, enter it on this page.
- 2. Enter and confirm a password.

These are the credentials to use for this Cloudpath account.

## **Activate Account by Credentials**

If you already have a Cloudpath License Server account, you can activate a new Cloudpath account or log in to an existing account using those credentials.

FIGURE 5 Activate Account With Existing Credentials



# **Initial System Setup**

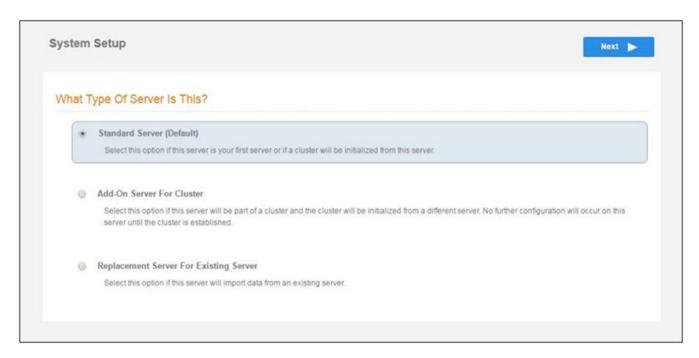
Cloudpath provides you with a single administrator login for the Cloudpath Admin UI. Additional administrators can be added from the left menu **Administration** tab, or you can enable Administrator logins from your authentication servers.

# **System Setup Wizard**

After a successful deployment and activation (or login), the system setup wizard takes you through a few steps.

1. Select Server Type.

FIGURE 6 Select Server Type



In most cases, select **Standard Server**, the default. This selection takes you through a setup wizard, which prompts you for the basic information required for an Cloudpath server.

- If you are setting up this server for replication, you can choose to set the server as an **Add-On** or **Replacement** server. These selections provide an alternate set up process, requiring less information for the initial setup. **Add-On** and **Replacement** servers receive most of their configuration from the primary server in the cluster.
- If you are setting up this server to replace an existing server, and you are importing the database from the existing server, select **Replacement Server for Existing Server**.

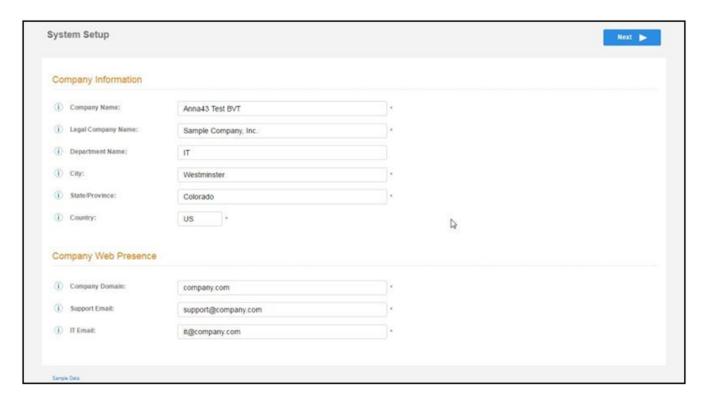
#### NOTE

For Add-on or Replacement servers, you will not be required to go through the full system setup.

#### 2. Enter Company Information, then click Next.

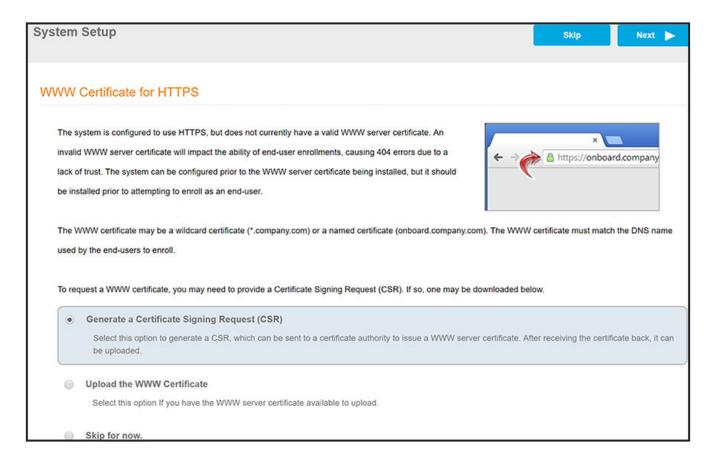
This information is embedded in the onboard root CA certificate.

#### FIGURE 7 Company Information



3. In the WWW Certificate for HTTPS screen (below), choose the applicable radio button, then click Next.

#### FIGURE 8 WWW Certificate for HTTPS Screen



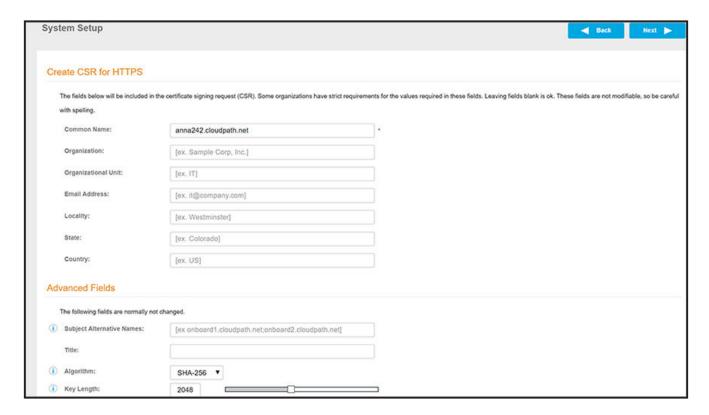
#### NOTE

Cloudpath supports web server certificates in P12 format, password-protected P12, or you can upload the individual certificate components: the public key, chain, and private key or password-protected private key.

- If you selected the "Generate CSR" radio button, perform Step 4.
- If you selected the "Upload the WWW Certificate" radio button, perform Step 5.
- You can select the "Skip for now" radio button for the initial configuration. However, you should perform this step prior to attempting to enroll as an end-user. To return at a later time to the screen shown above, navigate to **Administration > System Services >** Web Server service, then click **Upload WWW Certificate**. For now, proceed to Step 6

4. (Only if you selected "Generate CSR" radio button.) You should now be at the Create CSR for HTTPS screen:

#### FIGURE 9 Create CSR for HTTPS Screen



a) Enter the required information.

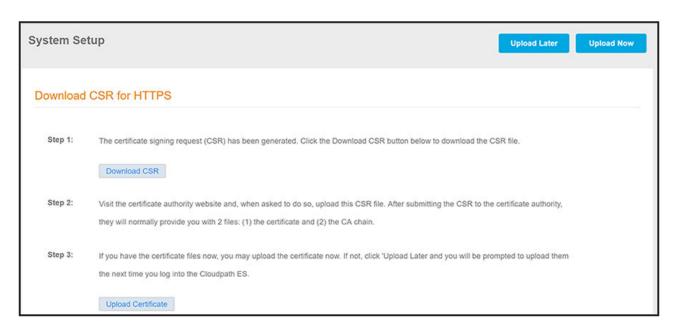
#### NOTE

In the Common Name field:

- If you are re-issuing a wildcard certificate, make sure the hostname includes \*. For example: \*.domain.com.
- If using a single-domain SSL certificate, the HTTPS server name should already be populated for you.
- b) Click Next.

The Download CSR for HTTPS Screen is displayed:

FIGURE 10 Download CSR for HTTPS Screen



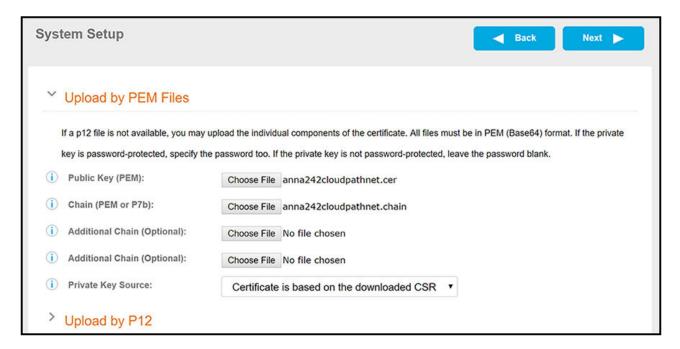
- c) Click **Download CSR** to download the .csr file, which you can then open in Notepad.
- d) Upload the CSR to any CA website to receive a certificate.
- e) Follow the instructions for the CA website to download the public key and chain.

The public key usually has a filename similar to the domain name. The chain will vary depending on the CA, but it typically contains the word "Root," "Intermediate," "Bundle," or something similar, and may have the filename extension of .chain.

f) In the screen that is shown in Figure 10, click **Upload Certificate**.

You are taken to the screen where you upload the files you received from the CA. The screen below shows the Private Key and the Chain already uploaded, and the Private Key Source is "Certificate is based on the downloaded CSR":

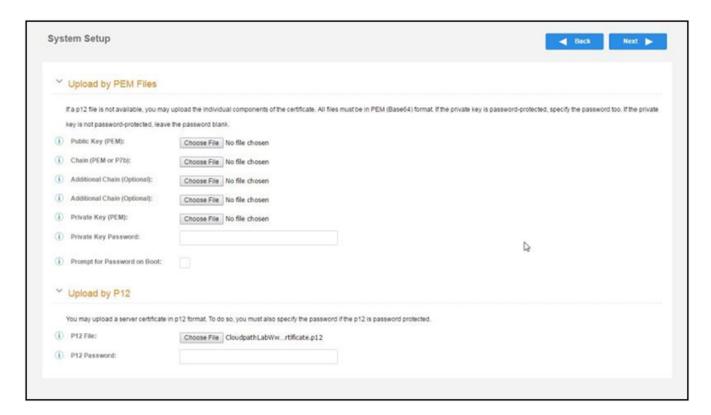
FIGURE 11 Upload WWW Certificate Based on the Downloaded CSR



- g) Upload your certificates using the screen shown above.
- h) Click **Next** to continue with the system setup.
- i) Proceed to Step 6.

5. (Only if you selected the "Upload the WWW Certificate" radio button, which you should only have done if you already have received your WWW certificate from a public CA.) You should now be at the following screen:

FIGURE 12 Upload Existing WWW Certificate



- a) Upload your certificates using the screen shown above.
  - You can do one of the following: 1) Upload the Public Key, the Chain, and the Private Key, or 2) Upload the P12 file. The example in the screen above shows a P12 file has been uploaded.
- b) Click **Next** to continue with the system setup.
- c) Proceed to Step 6.

#### 6. Select the Default Workflow.

- To initialize the system with a sample configuration, select **BYOD Users & SMS Guests**, or **BYOD Users Only**. This creates an initial workflow for BYOD users and sponsored guests (or BYOD users only) that you can use as a template, or simply add a device configuration and use immediately.
- To create your own workflow, select **Start with Blank Canvas**.

#### FIGURE 13 Select Default Workflow



7. Configure the Authentication Server.

#### NOTE

If you selected a Blank Canvas for the default workflow, you are not prompted to set up an authentication server during the initial system setup.

If you plan to use an authentication server to authenticate end-users or sponsors, Ruckus recommends populating the authentication server information page.

If using multiple authentication servers, additional authentication servers may be added through the workflow or from the **Configuration** > **Authentication Servers** page.

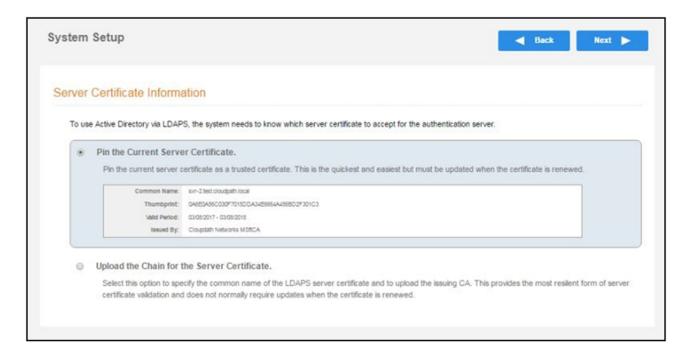
FIGURE 14 Authentication Server Setup



a) To setup the initial configuration of the Authentication Server, select and enter the required fields.

- b) Consider these optional settings for the authentication server:
  - Verify Account Status on Each Authentication If selected, Active Directory is queried during subsequent uses of the certificate to verify the user account is still enabled. You must provide the bind username and password for an authentication server administrator account.
  - Additional Logins If Use for Admin Logins is selected, administrators can log into the Cloudpath Admin UI using credentials
    associated with this authentication server. If Use for Sponsor Logins is selected, sponsors can log into the Cloudpath Admin UI
    using credentials associated with this authentication server.
  - **Test Authentication** If selected, an authentication will be attempted using the username and password provided to test connectivity to the authentication server. This test can also be run from the workflow.
- 8. Set up the Authentication Server Certificate:
  - a) To use LDAP over SSL (LDAPS), the system must know which server certificate to accept for the authentication server.

FIGURE 15 Authentication Server Certificate

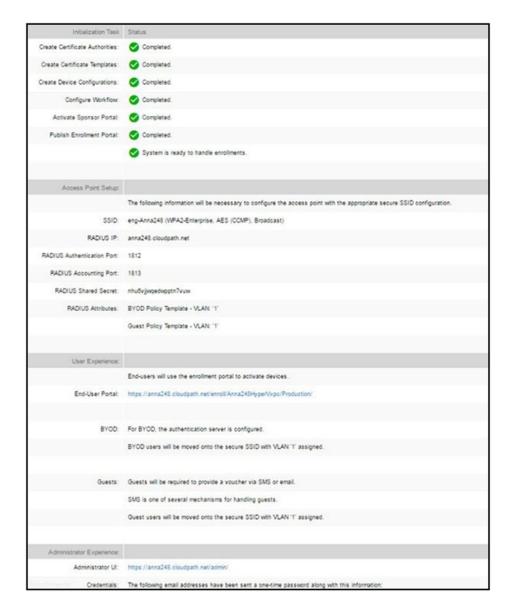


- b) Select **Upload the Chain for the Server Certificate** to upload a certificate chain from an issuing CA. You must specify the common name for the LDAPS server certificate. This certificate does not need to be updated when the certificate is renewed.
- c) Select **Pin the Current Server Certificate** to use the current server certificate as the trusted certificate. This setting must be updated if the certificate is renewed.

# **Publishing Tasks**

After the initial setup tasks, the system finishes the initialization process. When the publishing tasks are complete, the system is ready to use. The setup information is also emailed to the system administrator for this account.

#### FIGURE 16 System Initialization Status



#### **ToDo Items**

On subsequent logins, the Cloudpath **Welcome** page is displayed. The **ToDo Items** lists the configuration items needed to complete the account setup.

#### FIGURE 17 Cloudpath Welcome Page



Cloudpath ES provides a single point-of-entry for devices entering the network environment. The Automated Device Enablement (ADE) approach gives network administrators control by blending traditional employee-centric capabilities (Active Directory, LDAP, RADIUS, and Integration with Microsoft CA) with guest-centric capabilities (sponsorship, email, SMS, Facebook, and more).

#### **Getting Started**

Use the left menu tabs to begin setting up your workflow configuration. The *Dashboard* tab displays reporting information about the enrollments, users, devices, certificates, and more.

The Configuration tab allows you to configure and deploy the enrollment workflow, including the look & feel and the device configuration.

From the Sponsorship tab, you can manage vouchers and voucher lists, and customize the look & feel of the sponsorship portal.



Todo Items

From the Certificate Authority tab, you can manually generate certificates, view certificate details, revoke certificates, manage the characteristics of certificates to be issued, and manage certificate authorities (CAs).

The Administration tab allows you to manage administrator accounts, system services, diagnostics and logs, and system updates.

The Support tab provides access to the Quick Start Guide and several Setup Guides to help with common configurations along with licensing information.

To configure Cloudpath, see the *Cloudpath Quick Start Guide*, and other Cloudpath configuration guides, which can be found on the Cloudpath **Support** tab.

# **Command Reference**

For all Cloudpath commands, syntax, and descriptions, see the Cloudpath Enrollment System Command Reference.

# **Troubleshooting**

# **Test Network Connectivity**

To verify that the virtual appliance is correctly deployed, perform the following operations from the VMware server console:

- 1. Ping the gateway of your system.
- 2. Ping the URL where the Cloudpath Licensing Server is hosted.
- 3. Verify that the virtual appliance can resolve DNS.

# **How to Increase the Virtual Appliance Memory**

Use these instructions if you want to change the memory configuration of a virtual machine's hardware.

- 1. From the vCenter client, power off the virtual appliance.
- 2. Select the VM, and right-click to Edit Settings.

#### Troubleshooting

How to Expand the MySQL Partition Size

- 3. With the Hardware tab selected, select Memory.
- 4. On the right window pane, increase the Memory Size.
- Click OK.
- 6. Power on and reboot the VM.

# **How to Expand the MySQL Partition Size**

Use these instructions to expand the size of the partition used for MySQL database operations.

#### From the vCenter Client

- 1. With the VM running, select the VM and right-click to Edit Settings.
- 2. With the Hardware tab selected, select Hard disk 2.
- 3. On the right pane, in the Disk Provisioning section, increase the Provisioned Size to the desired size and click OK.

#### NOTE

If the Provisioned Size cannot be selected, try restarting the server using the sudo halt command.

#### From the Console

Enter the following commands as root.

1. (Optional) View the amount of free disk space available.

```
[root@localhost cpn service] # df -h
```

2. Signal to the OS that there has been a hardware change to the disk.

```
[root@localhost cpn service] # echo '1' > /sys/class/scsi disk/2\:0\:1\:0/device/ rescan
```

3. Expand the physical volume.

```
[root@localhost cpn_service]# pvresize /dev/sdb -v
```

4. Extend the size of the logical volume for MySQL operations.

This example shows that we are extending the size of the logical volume by adding 25GB.

```
[root@localhost cpn service]# lvextend -L +25G /dev/mapper/application vg-mysql
```

Resize the file system.

```
[root@localhost cpn service] # resize2fs /dev/mapper/application vg-mysql
```

This writes your changes to disk and completes the partition expansion process.

6. Verify the amount of free disk space available.

```
[root@localhost cpn_service]# df -h
```

The output should indicate the increased partition size.

# **Password Recovery**

#### **How To Recover Admin UI Password**

If you are locked out of the Cloudpath Admin UI, you can log in via SSH and use the activate-ui-recovery command from the service account.

This activates a temporary password for a short time period to allow you to log into the Cloudpath Admin UI and set up a new Administrator account, or reset a password for an existing account.

#### How To Recover Service Password

If you are locked out of the service account, you can log in via SSH to a Recovery account.

#### NOTE

You must contact Cloudpath Networks Support to obtain a recovery password.

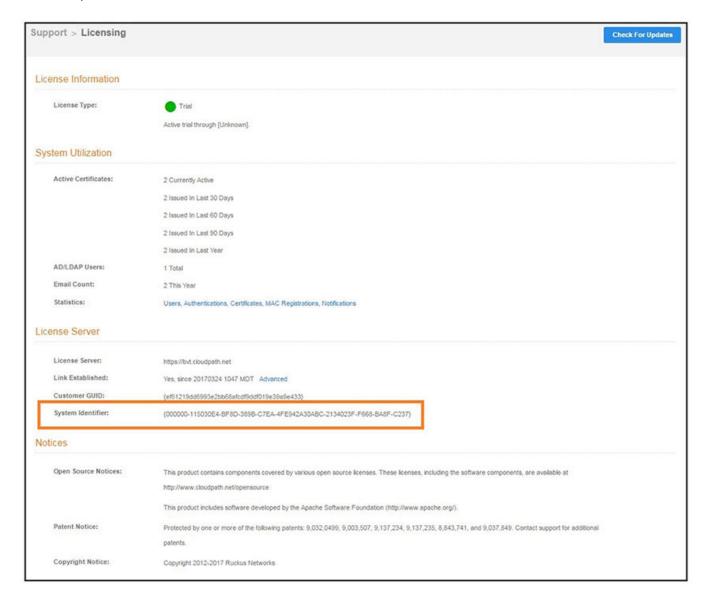
To receive a recovery password for the service account, you must provide the System Identifier and current Cloudpath version on your system.

#### How To Find Your System Identifier

- 1. Log into the Cloudpath Admin UI.
- 2. Go to Support > Licensing.

3. The System Identifier is listed on the **License Server** section.

#### FIGURE 18 System Identifier



#### **How To Find Your Current Cloudpath Version**

The Cloudpath version is displayed in two locations.

1. Go to Administration > System Services > Web Server service.

The current build is listed in the **Version** field.

FIGURE 19 Current Cloudpath Version System Services



2. The Cloudpath version is displayed in the lower left corner of the Admin UI, and is visible on all pages.

FIGURE 20 Current Cloudpath Version Lower Left

anns43.cloudpath.net Version 5.1.3367 Use of this website signifies your agreement to the EULA

# **Additional Documentation**

You can find more information in the Cloudpath configuration guides, located on the left-menu Support tab of the Cloudpath Admin UI.

