# FireAMP Private Cloud 3.0.1 upgrade procedure

# Contents

Introduction **Prerequisites Requirements** Hardware Requirements **Components Used** Upgrade process 1. Update download and installation 2. Backup collection and shutdown 3. New version installation 4. Backup restore 5. Certificate Authorities 6. Authentication Service 7. Installation 8. Post upgrade checks Changes in Virtual Private Cloud 3.0.1 1. Windows Connector version 6.1.7 2. Certificate Authorities and Authentication service

# Introduction

This document describes how to upgrade a FireAMP Private Cloud (vPC) version 2.4.4 to version 3.0.1. Please note that upgrade procedure requires a new Virtual Machine instance for 3.0.1 version.

# Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- Installation an Open Virtual Appliance (OVA) Template in the VMWare ESXi
- Basic knowledge of how Virtual AMP Cloud works and operates

#### **Hardware Requirements**

Below are the minimum hardware requirements for the FireAMP Private Cloud:

• vSphere ESX 5 or higher

- 8 CPUs
- 64 GB RAM
- 1 TB free disk space on the VMWare datastore
- Type of drives: SSD required
- RAID Type: One RAID 10 group (stripe of mirrors)
- Minimum VMware data store size: 1TB
- Minimum Data Store Random Reads for the RAID 10 Group (4K): 60K IOPS
- Minimum Data Store Random Writes for the RAID 10 Group (4K): 30K IOPS

**Caution**: The Private Cloud OVA creates the drive partitions, so there is no need to specify them in VMWare.

**Note**: Refer to the <u>FireAMP Private Cloud User Guide</u> for more information about Hardware Requirements.

#### **Components Used**

The information in this document is based on these hardware and software versions:

- FireAMP Private Cloud 2.4.4
- FireAMP Private Cloud 3.0.1
- VMWare ESXi 5.0 or greater

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

## **Upgrade process**

This section provides step by step instructions on how to collect the backup from the FireAMP Private Cloud 2.4.4 version and how to properly restore it on FireAMP Private Cloud 3.0.1 version.

**Caution**: Upgrade process can introduce a downtime in your environment. Connectors (includes AMP for Networks connected to your Virtual Private Cloud) which use Private Cloud can lose connectivity to the Virtual Cloud and they can have impaired functionality because of that.

#### 1. Update download and installation

Make sure that your FireAMP Virtual Private Cloud 2.4.4 is up to date.

Step 1. Navigate to **Operations -> Update Device** in Administrator Portal.

Step 2. Click **Check/Download Updates** button, as shown in the image, to make sure that your FireAMP Virtual Private Cloud, from where backup collection takes place, is up to date (Content and Software wise).

|  | Support ? Help (+ Logout |
|--|--------------------------|
| Configuration - Operations - Status - Integrations - Support -     | m <u>₹</u> -             |
| Updates keep your Private Cloud device up to date.                 |                          |
| Check/Download Updates   |                          |
| Content  |                          |
| 2.4.4_1528990794<br>Client Definitions, DFC, Tetra Content Version | Update Content           |
| Software   |                          |
| 2.4.4_1528991036<br>Private Cloud Software Version                 | Update Software          |
| Checked 43 minutes ago; software is up to date.                    |                          |

Step 3. Once Content and Software updates are installed, the update page shows the information that the device is up to date, as shown in the image.

| FIREAMP <sup>TM</sup> Private Cloud Administration Portal              | Support ? Help @ Logout |
|--|-------------------------|
| Configuration - Operations - Status - Integrations - Support -         | - <u>*</u>              |
| Updates keep your Private Cloud device up to date.                     |                         |
| Check/Download Updates   |                         |
| Content  |                         |
| 2.4.4.20190424060125<br>Client Definitions, DFC, Tetra Content Version | Update Content          |
| Checked 1 minute ago; content is up to date.                           |                         |
| Software   |                         |
| 2.4.4_1528991036<br>Private Cloud Software Version                     | Update Software         |
| Checked 35 minutes ago; software is up to date.                        |                         |

#### 2. Backup collection and shutdown

.

Step 1. Navigate to **Operations -> Backups.** 

Step 2. In the Manual Backup section, click **Perform Backup** button. The procedure starts a backup creation.

| fireAM            | Private Clou | d Administratic | on Portal      |           |         |        |        |    |
|-------------------|--------------|-----------------|----------------|-----------|---------|--------|--------|----|
|                   | 1111010-0100 |                 |                |           | Support | ? Help | 🕩 Logo | ut |
| # Configuration - | Operations * | Status -        | Integrations - | Support * |         |        | (m) +  | •  |

Backups create a copy of your FireAMP Private Cloud databases in /data/backups named amp-backup-YYYYMMDD-hhmm.ss.bak, where YYYY is the year, MM is the month, DD is the day, hh is the hour, mm the minute, and ss the second the backup was run.

|   | 🛗 Manage Schedule | ¶< Notificat | tions  |                |
|---|-------------------|--------------|--|----------------|
| Manual Backup                           |                   |              |  |                |
| Previous Backups                        | Perform Bac       | kup          |  |                |
| Name                                    |                   | 🕀 Size       | m Timestamp                                    | III Operations |
| /data/backups/amp-backup-20190424-0000. | 01.bak            | 359 MB       | 2019-04-24 00:00:37 +0000<br>about 7 hours ago | ± 8            |

Step 3. When the process finishes successfully, the successful notification appears, as shown in the image.

|                              | Idministration Portal             | Support ? Help |           | Logou | t. |
|------------------------------|-----------------------------------|----------------|-----------|-------|----|
| Configuration - Operations - | Status - Integrations - Support - |                | <b>IN</b> | 1     | •  |
| The backup was successful.   |                                   |                |           |       |    |

Backups create a copy of your FireAMP Private Cloud databases in /data/backups named amp-backup-YYYYMMDD-hhmm.ss.bak, where YYYY is the year, MM is the month, DD is the day, hh is the hour, mm the minute, and ss the second the backup was run.

| Manage Schedule ♥ No | tifications |
|----------------------|-------------|
|----------------------|-------------|

#### Manual Backup

| Perform Backup                |
|-------------------------------|
| Last Manual Backup Successful |
| Backup Job Details            |

#### **Previous Backups**

| Name  | 🕀 Size | 1 Timestamp   | III Operations |
|---|--------|---|----------------|
| /data/backups/amp-backup-20190424-0825.43.bak | 352 MB | 2019-04-24 08:26:18 +0000<br>less than a minute ago | <b>±</b>       |
| /data/backups/amp-backup-20190424-0000.01.bak | 359 MB | 2019-04-24 00:00:37 +0000<br>about 8 hours ago      | <b>±</b>       |

Step 4. Click should be a stree that the backup is properly downloaded and saved in a safe location.

#### 3. New version installation

This section assumes that Virtual Machine for 3.0.1 FireAMP Virtual Private Cloud is already deployed. Install procedure in regards of Virtual Machine for 3.0.1 OVA on VMWare ESXi can be found under the link: <u>Deploy an OVA File on an ESX Server.</u>

**Note**: Procedure presented in the article uses exactly the same hostnames and IP addresses for FireAMP Virtual Private Cloud 2.4.4 and 3.0.1. When you follow this guide, you must shutdown FireAMP Virtual Private Cloud 2.4.4 after backup is collected.

Step 1. Open console terminal for newly created Virtual Machine instance with 3.0.1 version installed. You can navigate through **Tab**, **Enter** and **arrow** keys.

Step 2. Navigate to **CONFIG\_NETWORK** and click the **Enter** key on your keyboard to begin the configuration of the management IP address for the FireAMP Private Cloud. If you do not want to use DHCP, select **No** and press **Enter**.



Step 3. Enter the **IP address**, **Network Mask** and **Default Gateway**. Navigate to **OK**, as shown in the image. Press **Enter** key.

| Use the arrow                            | keys to move between                     | fields, and the TA               | B key to toggle |
|--|--|----------------------------------|-----------------|
| Press the ENT                            | TER key when finished,                   | or ESC to cancel.                |                 |
| *NOTE: Gatewa                            | y for administration j                   | portal return traff              | ic only.        |
| IP Address<br>Network Mas<br>Gateway* (C | :: 10.40<br>sk: 255.7<br>ptional): 10.40 | 8.17.132<br>255.255.0_<br>8.17.1 |                 |
|  | < <b>O</b> K >                           | <cancel></cancel>                |                 |
|  |  |                                  |                 |

Step 4. Network configuration change requires a restart of the interface. After the restart, main console menu reappears, as shown in the image. This time you see an IP address on the URL line. Also, note that the initial **Password** is displayed. This is a one-time password (later referenced as **initial password**) which is used in the web-based setup.

| Your AMP Private Clo                          | ud device can be managed at:   |
|---|--|
| URL ht:<br>MAC Address : 00<br>Password : fU  | tps://10.48.17.132<br>:58:56:8d:09:b6<br>s8MKwuPw  |
| The password shown a<br>will be required to a | bove has been automatically generated for you. You change this password when you first login.                              |
| CONFIG_NETWORK<br>CONSOLE<br>INFO             | Configure the Web administration interface.<br>Start command-line console / shell.<br>Display device status / information. |
|   | < <u>0k</u> >  |

Step 5. Open a web browser and navigate to the management IP address of the appliance. You receive a certificate error as the FireAMP Private Cloud initially generates its own HTTPS certificate. Configure your browser to temporarily trust the self-signed certificate of the FireAMP Private Cloud.

Step 6. You get a screen to enter a password, as shown in the image. Use the **initial password** from the console. Click on **Login**.

| fire <b>AMP</b> ™   |
|---|
| Password Required   |
| Authentication is required to administer your FireAMP Private Cloud device. The password can be found on the device console of your Private Cloud device. |
| This site is best viewed in: Internet Explorer 10+, Firefox 14+, Safari 6+, or Chrome 20+   |
| Support   |

Step 7. After successful login, you are required to change the password. Use the **initial password** from the console in the **Old Password** field. Use your new password twice in the **New Password** fields. Click **Change Password**.

|                              | Administration Portal             | Support | ? Help | 🕞 Logou | ıt |
|------------------------------|-----------------------------------|---------|--------|---------|----|
| Configuration - Operations - | Status - Integrations - Support - |         |        | )es :   | •  |
| O Password Expired           |                                   |         |        |         |    |

Change the password used to access the FireAMP Private Cloud Administration Portal and the device console. Note that this is also the root password for your device.

|         | Warning<br>Your device password is used to authenticate to the Administration Portal as well as the device console. It may not be possible to paste<br>complex passwords or passwords with non-keyboard characters into the device console. |
|---------|---|
| a,      | ••••••  |
| a,      |   |
| a,<br>C | hange Password  |

#### 4. Backup restore

Step 1. Welcome page of Admin portal presents two ways of 3.0.1 FireAMP Virtual Cloud installation, as shown in the image.



Step 2. You can choose one of three different methods to upload the backup file to the newly created FireAMP Virtual Private Cloud instance:

**Local** - Restores the configuration from a backup file already presented on the device (you must put the file on the appliance via SFTP or SCP). Files are extracted to the correct directory once the restore process begins. For this reason, recommended is /data directory.

Remote - Restore from a file on a remotely accessible HTTP server.

**Upload** - Restore from the file uploaded by your browser. Works only if your backup file is smaller than 20MB.

In this example, the remote option was chosen.

**Note**: Proper connectivity must be allowed for the HTTP server. Backup file needs to be accessible from the Private Cloud perspective.

Click Start button to proceed with the restore, as shown in the image.



Step 3. Restore procedure from a backup replaces your current configuration. Your device's SSH host keys and Administration Portal password are replaced. You can review parts of your configuration in regards of installation.



Step 4. After a successful copy of the backup file, restore page presents pop-up message as shown on the image. Click **Reconfigure Administration Portal Now** button to finish the restore procedure.





| configuration of Administration Porta  |
|--|
| lease wait   |
|  |
| a device is reconfiguring the administration portal; this page will redire<br>u automatically in about a minute. |
| freshing this page manually might cause problems.  |

Step 5. Once reconfiguration is finished, the Administration portal page is displayed again, as shown in the image. From now on, to login you must use the password from 2.4.4 FireAMP Virtual Private Cloud backup.

Image shows most of the work for the proper installation as already done (checkpoint marks). It is expected since backup restores the configuration from FireAMP Virtual Private Cloud 2.4.4.

| Install or Restore Either perform a clean installation or select a location to restore your device from. When restoring you will have the option to edit your configuration before restore proceeds. Restore Ready Your configuration has been restored, and your data will be restored during installation. You |
|--|
| Either perform a clean installation or select a location to restore your device from. When restoring you will have the option to edit your configuration before restore proceeds.<br>Restore Ready Your configuration has been restored, and your data will be restored during installation. You                 |
| Either perform a clean installation or select a location to restore your device from. When restoring you will have the option to edit your configuration before restore proceeds.<br><b>Restore Ready</b> Your configuration has been restored, and your data will be restored during installation. You          |
| have the option to edit your configuration before restore proceeds.<br><b>Restore Ready</b><br>Your configuration has been restored, and your data will be restored during installation. You   |
| Restore Ready Your configuration has been restored, and your data will be restored during installation. You  |
| Restore Ready Your configuration has been restored, and your data will be restored during installation. You  |
| Restore Ready           Your configuration has been restored, and your data will be restored during installation. You  |
| Your configuration has been restored, and your data will be restored during installation. You  |
| Your configuration has been restored, and your data will be restored during installation. You  |
|  |
| may review and edit some parts of your configuration before proceeding with installation.  |
|  |
|  |
|  |
| Clean Installation   |
|  |
| Start >  |
|  |
|  |
|  |
|  |
| Restore Local Hermote Upload   |
| Restore a recovery file using your browser. Note that this method is only recommended for small recovery   |
| files (less than 20MB).  |
|  |
| Choose Restore File  |
|  |
| 🖿 /data  |
| Olive X  |
| Starty   |
|  |
|  |
|  |
|  |

#### 5. Certificate Authorities

Version 3.0.1 of FireAMP Virtual Private Cloud introduces new features and behaviors in terms of how the system operates. Those need to be configured and completed before you can begin the installation.

The first component which is new and was not present in the earlier release is **Certificate Authorities**.

**Certificate Authorities** page allows you to manage root certificates for your services if you want to use a custom certificate authority. You can download or delete your root certificate if needed.

**Note**: Certificate Authorities trusted store is used only for Virtual Cloud services (to build and validate the proper certificate chain). It is not used for various vPC integrations, like ThreatGrid.

Step 1. Navigate to Configuration -> Certificate Authorities section in Installation Options panel. Click Add Certificate Authority button, as shown in the image.



| Configuration - O   | perations | <ul> <li>Status - Integrati</li> </ul> | ions * Support *                       | )ee    |
|---|-----------|--|--|--------|
| nstallation Options<br>Only the License section can l<br>Itered after installation. | be        | Certificat                             | e Authorities                          |        |
| Install or Restore  | 2         |  | Add Certificate Authority              |        |
| Welcome     Deployment Mode     EreAMP Console Account                              | ***       | No certificate authoriti               | ies have been uploaded to this device. |        |
| Hardware Requirements   | ~         |  |  | Next > |
| Configuration   |           |  |  |        |
| Network   | ~         |  |  |        |
| Date and Time   | ~         |  |  |        |
| Certificate Authorities   |           |  |  |        |
| Upstream Proxy Server   | ~         |  |  |        |
| Cisco Cloud   | ~         |  |  |        |
| Email   | ~         |  |  |        |
| Notifications   | ~         |  |  |        |
| Backups   | ~         |  |  |        |
| SSH   | ~         |  |  |        |
| > Syslog  | ~         |  |  |        |
| > Updates   | ~         |  |  |        |

Support ? Help @ Logout

Step 2. Click **Add Certificate Root**, as shown in the image, to upload the certificate. All listed requirements need to be met for Virtual Private Cloud to accept the certificate.

**Note**: During the upgrade procedure, you must add **root certificate** used to sign the **Authentication** service certificate, explained in the next section.



Step 3. Once the certificate is updated, click Upload button, as shown in the image, to upload the

certificate.

| Configuration - Operatio   | s • Status • Integrations • Support •                    | <b>W</b> |
|--|--|----------|
| Installation Options<br>Only the License section can be<br>altered after installation. | Add Certificate Authority                                |          |
| > Install or Restore  > License  | Certificate Root (PEM .crt)                              |          |
|  | Certificate file has been uploaded.                      |          |
| > Hardware Requirements 🗸  | <ul> <li>Certificate is in a readable format.</li> </ul> |          |
| Configuration  | Certificate start and end dates are valid.               |          |
| Date and Time     Certificate Authorities  | Certificate end date is later than 20 months from today. |          |
| Upstream Proxy Server     Cisco Cloud     Ganal  | Certificate file only contains one certificate.          |          |
| > Notifications<br>> Backups   | Certnew.cer + Add Certificate Root                       |          |

If you use any subordinate certificates authority to sign any service certificates, upload them in this section as well.

**Caution**: Even if you generate a self-signed certificate for the Authentication Service, make sure that it is uploaded in the Certificate Authority section before you go to the next steps.

#### 6. Authentication Service

The second component which is added in 3.0.1 version, and not imported from the backup, is **Authentication** under the Services section.

**Authentication** service will be used in future versions of Private Cloud to handle user authentication requests. It is added in 3.0.1 version for future compatibility.

Step 1. Navigate to **Services** -> **Authentication** section in the **Installation Options** panel. Enter unique **Authentication Hostname**, DNS entry specified in the hostname section must be correctly configured on the DNS server and points to the Virtual Private Cloud console interface IP address.

|   |  | Support 7 Help G Logout |
|---|--|-------------------------|
| Configuration - O   | erations - Status - Integrations - Support -       | <b>H</b>                |
| Istallation Options<br>nly the License section can be<br>tered after installation.  | Authentication Co                                  | nfiguration             |
| Install or Restore<br>License   | Authentication Hostname                            | 0 HELP                  |
| Welcome<br>Deployment Mode<br>FireAMP Console Account<br>Hardware Requirements  | authentication.amptest.pgruszcz.com                | Validate DNS Name       |
| onfiguration  | Authentication Certificate                         | Replace Certificate     |
| Network<br>Date and Time<br>Certificate Authorities<br>Upstream Proxy Server<br>Cisco Cloud<br>Email<br>Notifications<br>Backups<br>SSH<br>Syslog | No certificate has been provided for this service. | Next >                  |
| Updates   | *  |                         |
| Authentication  |  |                         |
| FireAMP Console   | ~  |                         |
| Disposition Server  | ¥  |                         |
|   | ·  |                         |
| Extended Protocol   |  |                         |

Step 2. Once the hostname is specified and properly resolvable, click **Replace Certificate** button, as showed in image.

|  | rivat   | Group Auministration Portal     |                      | Support 1  | Help (+ Logout    |
|--|---------|---------------------------------|----------------------|------------|-------------------|
| Configuration - Op   | eration | - Status - Integrations -       | Support +            |            |                   |
| Istallation Options  | •       | Authenticat                     | ion Confi            | guration   |                   |
| Install or Restore<br>License  | ~       | Authentication Hostname         |                      |            | @ HELP            |
| Welcome<br>Deployment Mode<br>FireAMP Console Account                        | * * *   | authentication.amptest.pgr      | uszcz.com            | Validate D | NS Name           |
| Hardware Requirements onfiguration   | ~       | Authentication Certificate      |                      | Rej        | place Certificate |
| Network<br>Date and Time<br>Certificate Authorities<br>Upstream Proxy Server | * * * * | No certificate has been provide | ed for this service. |            |                   |
| Cisco Cloud<br>Email<br>Notifications  | * * *   |                                 |                      |            | Next >            |
| Backups<br>SSH<br>Suelog   | * * >   |                                 |                      |            |                   |
| Updates  | ~       |                                 |                      |            |                   |
| ervices  |         |                                 |                      |            |                   |
| Authentication<br>FireAMP Console  | ~       |                                 |                      |            |                   |
| Disposition Server   | ~       |                                 |                      |            |                   |
| Disposition Server<br>Extended Protocol                                      | ~       |                                 |                      |            |                   |
| Disposition Update<br>Service  | ~       |                                 |                      |            |                   |
| Firepower Management   |         |                                 |                      |            |                   |

**Note**: If you need help with the Certificate generation, please visit the article: <u>How to</u> <u>Generate and Add Certificates that are Required for Installation of AMP VPC 3.x Onwards</u> for more information about Hardware Requirements.

Step 3. Click **Choose Certificate** button to upload the Authentication Service certificate, as showed in image.



| Cloud Administration Portal |  |
|-----------------------------|--|
|                             |  |

Support ? Help (+ Logout

| <ul> <li>Install or Restore</li> <li>License</li> </ul>  | \$    | Authen   | tication Hostname  |      |                                     | [                             | 0 HELP   |
|--|-------|----------|--|------|-------------------------------------|-------------------------------|----------|
| Welcome     Deployment Mode     FireAMP Console Account     Hardware Requirements  | ****  | @ au     | thentication.amptest.pgruszcz.com                            |      | Valid                               | ate DNS Name                  |          |
| onfiguration   |       | Authen   | tication Certificate   |      | Undo                                | Replace Cer                   | tificate |
| Network     Date and Time     Certificate Authorities  | * * * |          | • Certificate (PEM .crt)                                     |      | ୟ Key (PE                           | M .key)                       |          |
| Upstream Proxy Server<br>Cisco Cloud   |       | 0        | Certificate file has been uploaded.                          | 0    | Key file has beer                   | uploaded.                     |          |
| > Email     ✓       > Notifications     ✓       > Backups     ✓       > SSH     ✓       > Syslog     ✓       > Updates     ✓ |       |          | Certificate is in a readable format.                         | 0    | Key contains a s                    | upported key typ              | pe.      |
|  |       |          | Certificate start and end dates are valid.                   |      | Key contains pul                    | blic key material.            |          |
|  |       | 0        | Certificate contains a subject.                              |      | Key contains priv                   | vate key materia              | L.       |
| ervices<br>Authentication  |       | 0        | Certificate contains a common name.                          | 0    | Key contains a p<br>the uploaded ce | ublic key matchi<br>tificate. | ing      |
| FireAMP Console     Disposition Server     Disposition Server  | *     | 0        | Certificate contains a public key matching the uploaded key. | Priv | vate.key                            | + Choose H                    | (ey      |
| Extended Protocol<br>Disposition Update  | -     | 0        | Certificate matches hostname.                                |      | ,                                   |                               |          |
| Service<br>Firepower Management<br>Center  | ~     | 0        | Certificate is signed by a trusted root<br>authority.        |      |                                     |                               |          |
| Other<br>Review and Install  |       | <b>1</b> | uthentication_serv + Choose Certificate                      | 1    |                                     |                               |          |

Step 4. Next step is to upload the private key file for the certificate. To add it, click **Choose Key** button.



Configuration -

Installation Options

| Private Clou | Private Cloud Administration Portal |                |           |  |  |  |
|--------------|-------------------------------------|----------------|-----------|--|--|--|
| Operations + | Status -                            | Integrations - | Support + |  |  |  |

Support ? Help @ Logout

|      | PP |  |
|------|----|--|
|      |    |  |
| tion |    |  |
|      |    |  |
|      |    |  |

#### Authentication Configura Only the License section can be altered after installation. > Install or Restore ~ Authentication Hostname **O HELP** > License ~ > Welcome Validate DNS Name authentication.amptest.pgruszcz.com ~ > Deployment Mode > FireAMP Console Account ~ > Hardware Requirements Authentication Certificate Undo **Replace Certificate** Configuration > Network 1 > Date and Time ~ Certificate (PEM .crt) & Key (PEM .key) ~ > Certificate Authorities >>>>>>>>> > Upstream Proxy Server Certificate file has been uploaded. Key file has been uploaded. 0 0 > Cisco Cloud > Email Certificate is in a readable format. 0 0 Key contains a supported key type. > Notifications > Backups Certificate start and end dates are valid. Key contains public key material. > SSH 0 0 > Syslog > Updates 0 Certificate contains a subject. Key contains private key material. 0 Services Certificate contains a common name. Key contains a public key matching 0 0 > Authentication the uploaded certificate. > FireAMP Console Certificate contains a public key matching 0 > Disposition Server > Disposition Server the uploaded key. + Choose Key private.key Extended Protocol Certificate matches hostname. 0 **Disposition Update** Service Certificate is signed by a trusted root **Firepower Management** 0 authority. Center Other authentication\_serv + Choose Certificate > Review and Install Start Installation Next >

Step 5. You need to make sure all of the requirements are met before you can proceed to the next step. Highlighted requirements are met if the root certificate used to sign the Authentication service is correctly placed in the **Certificate Authorities** store.

**Caution:** You can change the hostnames for all other Services at this stage only. Once the installation is finished, hostname for the services cannot be changed. Later you can change certificates only. You need to make sure you understand the risk of such operation. If you change the hostnames of the services used by the Connectors or AMP for Network devices, they can have problems to communicate with the cloud once upgrade is completed.

#### 7. Installation

Step 1. Once every section is completed and marked as valid, you begin the installation. Navigate to Review and Install section and click Start Installation button, as shown in the image.



(H) =

| FireAMP Console Account   | ~ |                           |   |                           |  |  |  |
|---------------------------|---|---------------------------|---|---------------------------|--|--|--|
| > Hardware Requirements   | ~ |                           | Restore Ready   |                           |  |  |  |
| Configuration             |   |                           |   |                           |  |  |  |
| > Network                 | ~ | Your configuration h      | as been restored, and your data will be restored durin                                    | ng installation. You      |  |  |  |
| > Date and Time           | ~ | may review and ed         | may review and edit some parts of your configuration before proceeding with installation. |                           |  |  |  |
| > Certificate Authorities | ~ |                           |   |                           |  |  |  |
| > Upstream Proxy Server   | ~ |                           |   |                           |  |  |  |
| > Cisco Cloud             | ~ | Installation Type         | Installation Type   |                           |  |  |  |
| > Email                   | ~ |                           |   | p con                     |  |  |  |
| > Notifications           | ~ |                           |   |                           |  |  |  |
| Backups                   | ~ | Cloud Proxy               |   |                           |  |  |  |
| > SSH                     | ~ | Bequires an Internet      | connection and communication with FireAMP Co.   | nnectors managed by this  |  |  |  |
| > Syslog                  | ~ | device                    | connection and communication with Prevail co  | intectors managed by this |  |  |  |
| > Updates                 | ~ | Disposition queries an    | e provied to the Cisco Cloud  |                           |  |  |  |
|                           |   | Content undates cont      | ain TETRA definitions   |                           |  |  |  |
| Services                  |   | Content and software      | undates can be retrieved and applied automatically  |                           |  |  |  |
| > Authentication          | ~ | · Content and software    | opulates can be retrieved and appred automatically.                                       |                           |  |  |  |
| FireAMP Console           | ~ |                           |   |                           |  |  |  |
| Disposition Server        | ~ |                           |   |                           |  |  |  |
| Disposition Server        |   | FireAMP Console Accou     | int   | & Edit                    |  |  |  |
| Extended Protocol         | * |                           |   |                           |  |  |  |
| Disposition Update        |   | Name                      | Piotr Gruszczynski  |                           |  |  |  |
| Service                   | * |                           |   |                           |  |  |  |
| Firepower Management      |   | Email Address             | pgruszcz@cisco.com  |                           |  |  |  |
| Center                    | * |                           |   |                           |  |  |  |
|                           |   | Business Name             | Cisco - pgruszcz  |                           |  |  |  |
| Other                     |   |                           |   |                           |  |  |  |
| Review and Install        |   |                           |   |                           |  |  |  |
|                           |   | Recovery                  |   |                           |  |  |  |
|                           |   | When restoring from a har | hun a recovery image is not required  |                           |  |  |  |
| Start Installation        |   | menrestoring nom a bac    | way, a recordly intage is not required.   |                           |  |  |  |
|                           |   |                           |   |                           |  |  |  |
|                           |   |                           |   |                           |  |  |  |
|                           |   |                           | ► Start Installation  |                           |  |  |  |
|                           |   |                           |   |                           |  |  |  |

Step 2. Administrator portal presents you the current state, start date and logs. If you encounter any errors or problems which needs support attention, collect the logs by click Download Output button, as shown in the image, and attach them to the TAC case.

# The device is installing...

Please wait for this page to redirect you. Refreshing manually might cause problems. Installation time is typically under 20 minutes.

| II State  | m Started   | m Finished    | O Duration    |
|-----------|---|---------------|---------------|
| ► Running | Fri Apr 26 2019 13:54:03 GMT+0200 (Central European Summer Time)<br>0 day, 0 hour, 1 minute, 14 seconds ago | Ø Please wait | O Please wait |

Your device will need to be rebooted after this operation.

| Reboot  |
|---|
| ■ Output  |
| <pre>[2019-04-26T11:55:10+00:00] DEBUG: Current content's checksum:<br/>[2019-04-26T11:55:10+00:00] DEBUG: Rendered content's checksum: 1c2c8f5383551c7c76409b59eec5833923094af0c69d8d967a552<br/>c3d47f2a609</pre>   |
| <pre>[2019-04-26T11:55:10+00:00] INFO: template[/opt/fire/amp/portal/config/linux/config_items.chef.yml] updated content<br/>[2019-04-26T11:55:10+00:00] INFO: template[/opt/fire/amp/portal/config/linux/config_items.chef.yml] owner changed to<br/>0</pre> |
| <pre>[2019-04-26T11:55:10+00:00] INFO: template[/opt/fire/amp/portal/config/linux/config_items.chef.yml] group changed to 0 [2019-04-26T11:55:10+00:00] INFO: template[/opt/fire/amp/portal/config/linux/config_items.chef.yml] mode changed to 6</pre>       |
| <pre>44 [2019-04-26T11:55:10+00:00] INF0: template[/opt/fire/amp/portal/config/linux/config_items.chef.yml] not queuing delay ed action run on execute[reset policy network items] (delayed), as it's already been gueued</pre>                               |
| <pre>[2019-04-26T11:55:10+00:00] INFO: Processing template[/opt/fire/amp/portal/config/virtual/config_items.chef.yml] acti<br/>on create (fireamp-portal::config_chef line 70)<br/>[2019-04-26T11:55:10+00:00] DEBUG: Current content's checksum:</pre>       |
| [2019-04-26T11:55:10+00:00] DEBUG: Rendered content's checksum: 06c8c02083c15cab1270ec1e3e62c593d5627a387793cce53ae29<br>0817d555b1c  |
| La Download Output  |

Step 3. When the installation is successful, you must reboot the device to finish the process. Click **Reboot** button to proceed with the restart procedure, as shown in the image.

# The device is installing...

Please wait for this page to redirect you. Refreshing manually might cause problems. Installation time is typically under 20 minutes.

|  | m Started   | m Finished  | O Duration   |
|--|---|---|--|
| ✓ Successful   | Fri Apr 26 2019 13:54:03 GMT+0200 (Central<br>European Summer Time)<br>0 day, 0 hour, 10 minutes, 23 seconds ago  | Fri Apr 26 2019 14:03:57 GMT+0200 (Central<br>European Summer Time)<br>0 day, 0 hour, 0 minute, 28 seconds ago  | 0 day, 0 hour, 9 minutes<br>54 seconds   |
|  | Your device will ne   | ed to be rebooted after this operation.   |  |
| <b>Output</b>  | ire/chef/cookbooks/daemontools/providers/   | service.rb line 148)  |  |
| [2019-04-2<br>[2019-04-2<br>8426120051   | 6T12:03:39+00:00) INFO: execute[/opt/fire<br>6T12:03:39+00:00) INFO: template[/opt/fir<br>.rb] sending run action to execute[run_mi   | <pre>/embedded/bin/svc -t /service/fireamp-hapro<br/>e/amp/portal/db/migrate/20190426120103_upda<br/>grate_license_summary] (delayed)</pre>   | oxy] ran successfully<br>ate_license_summary_201                                 |
| [2019-04-2<br>[2019-04-2<br>0426120051<br>[2019-04-2<br>line 142)<br>[2019-04-2  | 6T12:03:39+00:00] INF0: execute[/opt/fire.<br>6T12:03:39+00:00] INF0: template[/opt/fir<br>.rb] sending run action to execute[run_mi<br>6T12:03:39+00:00] INF0: Processing execut<br>6T12:03:57+00:00] INF0: execute[run_migra  | <pre>/embedded/bin/svc -t /service/fireamp-hapro<br/>e/amp/portal/db/migrate/20190426120103_upda<br/>grate_license_summary] (delayed)<br/>e[run_migrate_license_summary] action run (<br/>te_license_summary] ran successfully<br/>(= 100 20202020 accounts)</pre>  | <pre>xy] ran successfully ste_license_summary_201 (fireamp-onprem::licens)</pre> |
| [2019-04-2<br>[2019-04-2<br>0426120051<br>[2019-04-2<br>line 142)<br>[2019-04-2<br>[2019-04-2<br>[2019-04-2<br>[2019-04-2  | 6T12:03:39+00:00] INF0: execute[/opt/fire.<br>6T12:03:39+00:00] INF0: template[/opt/fire.<br>.rb] sending run action to execute[run_mi<br>6T12:03:39+00:00] INF0: Processing execut<br>6T12:03:57+00:00] INF0: execute[run_migra<br>6T12:03:57+00:00] INF0: Chef Run complete<br>6T12:03:57+00:00] INF0: Running report ha<br>6T12:03:57+00:00] INF0: Report handlers c   | <pre>/embedded/bin/svc -t /service/fireamp-hapro<br/>e/amp/portal/db/migrate/20190426120103_upda<br/>grate_license_summary] (delayed)<br/>e[run_migrate_license_summary] action run (<br/>te_license_summary] ran successfully<br/>in 186.283958188 seconds<br/>ndlers<br/>omplete<br/>c)</pre>                                     | oxy] ran successfully<br>ste_license_summary_201<br>(fireamp-onprem::licens      |
| [2019-04-2<br>[2019-04-2<br>0426120051<br>[2019-04-2<br>line 142)<br>[2019-04-2<br>[2019-04-2<br>[2019-04-2<br>[2019-04-2<br>Sending sy<br>Registrati                      | 6T12:03:39+00:00] INFO: execute[/opt/fire.<br>6T12:03:39+00:00] INFO: template[/opt/fire.<br>.rb] sending run action to execute[run_mi<br>6T12:03:39+00:00] INFO: Processing execut<br>6T12:03:57+00:00] INFO: execute[run_migra<br>6T12:03:57+00:00] INFO: Chef Run complete<br>6T12:03:57+00:00] INFO: Running report ha<br>6T12:03:57+00:00] INFO: Report handlers c<br>stem notification (this may take some tim<br>on against the FireAMP Disposition Server   | <pre>/embedded/bin/svc -t /service/fireamp-hapro<br/>e/amp/portal/db/migrate/20190426120103_upda<br/>grate_license_summary] (delayed)<br/>e[run_migrate_license_summary] action run (<br/>te_license_summary] ran successfully<br/>in 186.283958188 seconds<br/>ndlers<br/>omplete<br/>e).<br/>has previously succeeded.</pre>      | oxy] ran successfully<br>ote_license_summary_201<br>(fireamp-onprem::licens      |
| <pre>[2019-04-2<br/>[2019-04-2<br/>0426120051<br/>[2019-04-2<br/>line 142)<br/>[2019-04-2<br/>[2019-04-2<br/>[2019-04-2<br/>[2019-04-2<br/>Sending sy<br/>Registrati</pre> | 6T12:03:39+00:00] INFO: execute[/opt/fire<br>6T12:03:39+00:00] INFO: template[/opt/fir<br>.rb] sending run action to execute[run_mi<br>6T12:03:39+00:00] INFO: Processing execut<br>6T12:03:57+00:00] INFO: execute[run_migra<br>6T12:03:57+00:00] INFO: Chef Run complete<br>6T12:03:57+00:00] INFO: Running report ha<br>6T12:03:57+00:00] INFO: Report handlers c<br>stem notification (this may take some tim<br>on against the FireAMP Disposition Server<br>Installation has finished successfully! | <pre>/embedded/bin/svc -t /service/fireamp-hapro<br/>e/amp/portal/db/migrate/20190426120103_upda<br/>grate_license_summary] (delayed)<br/>e[run_migrate_license_summary] action run (<br/>te_license_summary] ran successfully<br/>in 186.283958188 seconds<br/>ndlers<br/>omplete<br/>e).<br/>has previously succeeded.<br/></pre> | oxy] ran successfully<br>ote_license_summary_201<br>(fireamp-onprem::licens)     |

Step 4. After the reboot procedure, you can login to the **Administrator** Portal and **Console** Portal. The upgrade procedure is finished.

#### 8. Post upgrade checks

Once the device is rebooted, please make sure that restore was completed successfully:

Step 1. Check if connectors are able to communicate to the newly installed virtual appliance 3.0.1.

Step 2. Make sure that Events, Device Trajectory and Computers object are correctly restored and presented in the console portal.

Step 3. If you have any AMP for Network integrations like FMC, ESA, WSA make sure they can communicate to the File Disposition server.

Step 4. Check for any Content/Software (Operations -> Update Device) updates and proceed with the installation of such.

It is highly suggested to perform tests to assure a successful upgrade.

# **Changes in Virtual Private Cloud 3.0.1**

#### 1. Windows Connector version 6.1.7

Private Cloud 3.0.1 is shipped with the support for 6.1.7 Windows Connector version, you can find the documentation about it under the link: <u>Release notes for 6.1.7</u>

**Caution**: If you have made any change in certificates, make sure that before an upgrade or installation to version 6.1.7 of Windows Connector, certificates used for private cloud services are trusted on the endpoint itself. Trust needs to be on the machine level, not user. If this condition is not met, connectors do not trust the certificate presented by Private Cloud which keeps them in a disconnected state.

#### 2. Certificate Authorities and Authentication service

Changes were thoroughly described in the user guide for 3.0: Private Cloud User Guide.

**Certificate Authorities** allows you to manage root certificates for your Services if you want to use a custom certificate authority. You can download or delete your root certificate if needed.

**Authentication** service will be used in future versions of Private Cloud to handle user authentication requests. It is added in 3.0.1 version for future compatibility.