

FireAMP私有云3.0.1升级程序

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简介

本文档介绍如何将FireAMP私有云(vPC)版本2.4.4升级到版本3.0.1。请注意，升级过程需要3.0.1版本的新虚拟机实例。

先决条件

要求

Cisco 建议您了解以下主题：

- 在VMWare ESXi中安装开放式虚拟设备(OVA)模板
- 了解虚拟AMP云如何工作和运行的基本知识

硬件要求

以下是FireAMP私有云的最低硬件要求：

- vSphere ESX 5或更高版本
- 8个CPU
- 64 GB RAM
- VMWare数据存储区上有1 TB可用磁盘空间

- 驱动器类型:需要SSD
- RAID类型：一个RAID 10组（镜像条带）
- 最小VMware数据存储大小：1TB
- RAID 10组(4K)的最小数据存储随机读取数：60K IOPS
- RAID 10组(4K)的最小数据存储随机写入：30K IOPS

警告：私有云OVA创建驱动器分区，因此无需在VMWare中指定这些分区。

注意：有关硬件要求的[详细信息，请参阅《FireAMP私有云用户指南》。](#)

使用的组件

本文档中的信息基于下列硬件和软件版本：

- FireAMP私有云2.4.4
- FireAMP私有云3.0.1
- VMWare ESXi 5.0或更高版本

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

升级过程

本节提供有关如何从FireAMP私有云2.4.4版收集备份以及如何在FireAMP私有云3.0.1版上正确恢复备份的分步说明。

警告：升级过程会在您的环境中造成停机。使用私有云的连接器（包括连接到虚拟私有云的网络的AMP）可能会失去与虚拟云的连接，并且可能因此功能受损。

1.更新下载和安装

确保您的FireAMP虚拟私有云2.4.4是最新的。

步骤1.导航至“管理员门户”中的“操作” — >“更新设备”。

步骤2.单击Check/Download Updates按钮（如图所示），确保您的FireAMP虚拟私有云（从何处进行备份收集）是最新的（内容和软件方面）。

The screenshot shows the fireAMP Private Cloud Administration Portal. At the top, there is a navigation bar with the fireAMP logo and the text "Private Cloud Administration Portal". On the right side of the navigation bar, there are links for "Support", "Help", and "Logout". Below the navigation bar, there is a menu with "Configuration", "Operations", "Status", "Integrations", and "Support". A "Check/Download Updates" button is highlighted with a red box. Below this, there is a section titled "Content" with a version number "2.4.4_1528990794" and a sub-label "Client Definitions, DFC, Tetra Content Version". To the right of this version is a blue "Update Content" button. Below the "Content" section is a section titled "Software" with a version number "2.4.4_1528991036" and a sub-label "Private Cloud Software Version". To the right of this version is an orange "Update Software" button. Below the software version, it says "Checked 43 minutes ago; software is up to date."

步骤3.安装内容和软件更新后，更新页面会显示设备最新的信息，如图所示。

The screenshot shows the fireAMP Private Cloud Administration Portal after updates. The navigation bar and menu are the same as in the previous screenshot. The "Check/Download Updates" button is no longer highlighted. Below this, there is a section titled "Content" with a version number "2.4.4.20190424060125" and a sub-label "Client Definitions, DFC, Tetra Content Version". To the right of this version is a blue "Update Content" button. Below the content version, it says "Checked 1 minute ago; content is up to date." Below the "Content" section is a section titled "Software" with a version number "2.4.4_1528991036" and a sub-label "Private Cloud Software Version". To the right of this version is an orange "Update Software" button. Below the software version, it says "Checked 35 minutes ago; software is up to date."

2.备份收集和关闭

步骤1.导航至“操作”->“备份”。

步骤2.在“手动备份”部分，单击“执行备份”按钮。该过程将启动备份创建。


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 Notifications

Manual Backup

Perform Backup

Previous Backups

Name	Size	Timestamp	Operations
/data/backups/amp-backup-20190424-0000.01.bak	359 MB	2019-04-24 00:00:37 +0000 about 7 hours ago	 

步骤3.当流程成功完成时，将显示成功通知，如图所示。

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 Notifications





Manual Backup


Perform Backup

Last Manual Backup Successful

Backup Job Details

Previous Backups

Name	Size	Timestamp	Operations
/data/backups/amp-backup-20190424-0825.43.bak	352 MB	2019-04-24 08:26:18 +0000 less than a minute ago	 
/data/backups/amp-backup-20190424-0800.01.bak	359 MB	2019-04-24 00:00:37 +0000 about 8 hours ago	 

步骤4.单击  按钮。确保备份已正确下载并保存在安全位置。

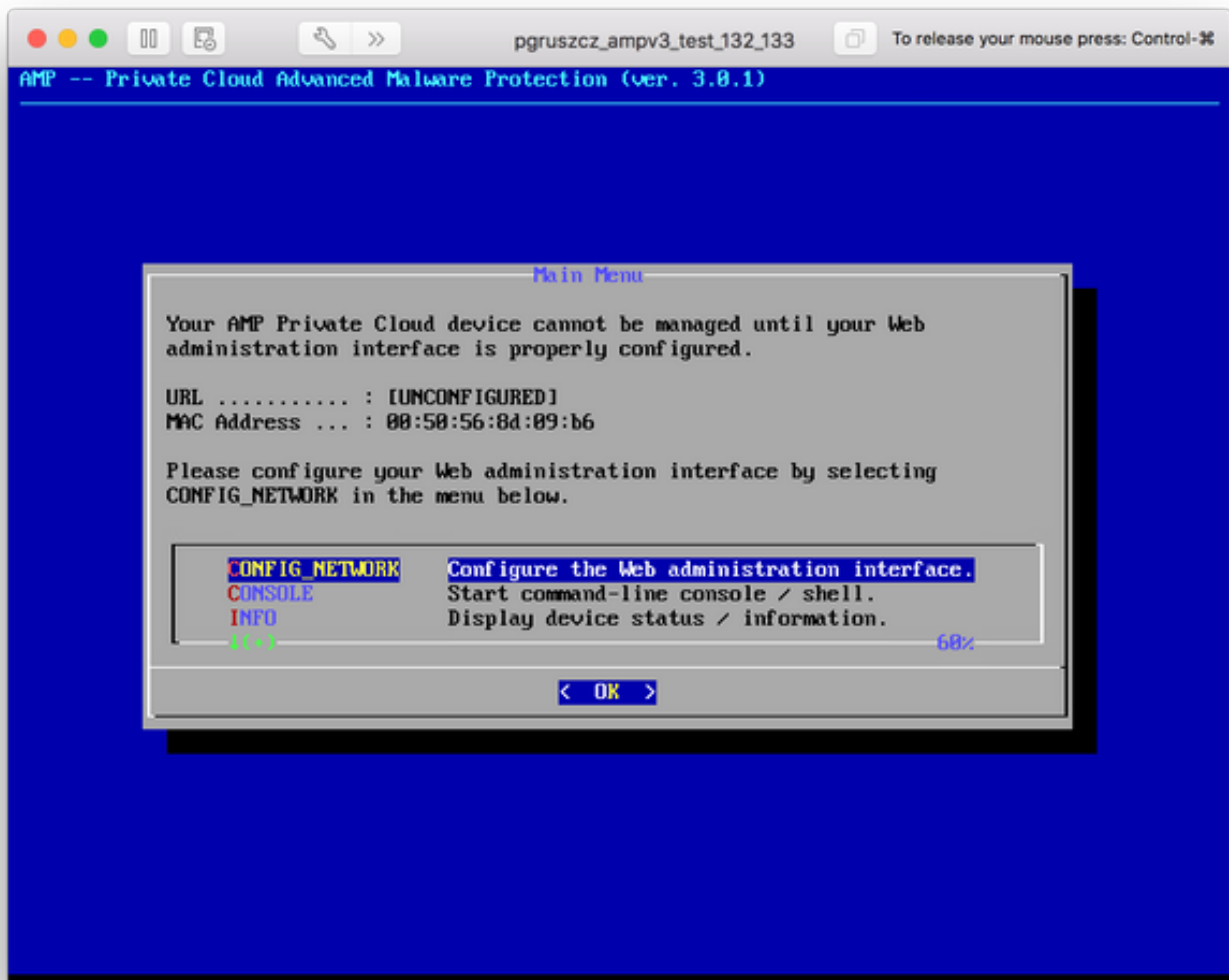
3.新版本安装

本节假设已部署用于3.0.1 FireAMP虚拟私有云的虚拟机。有关VMWare ESXi上3.0.1 OVA的虚拟机的安装过程，请参阅以下链接：[在ESX Server上部署OVA文件。](#)

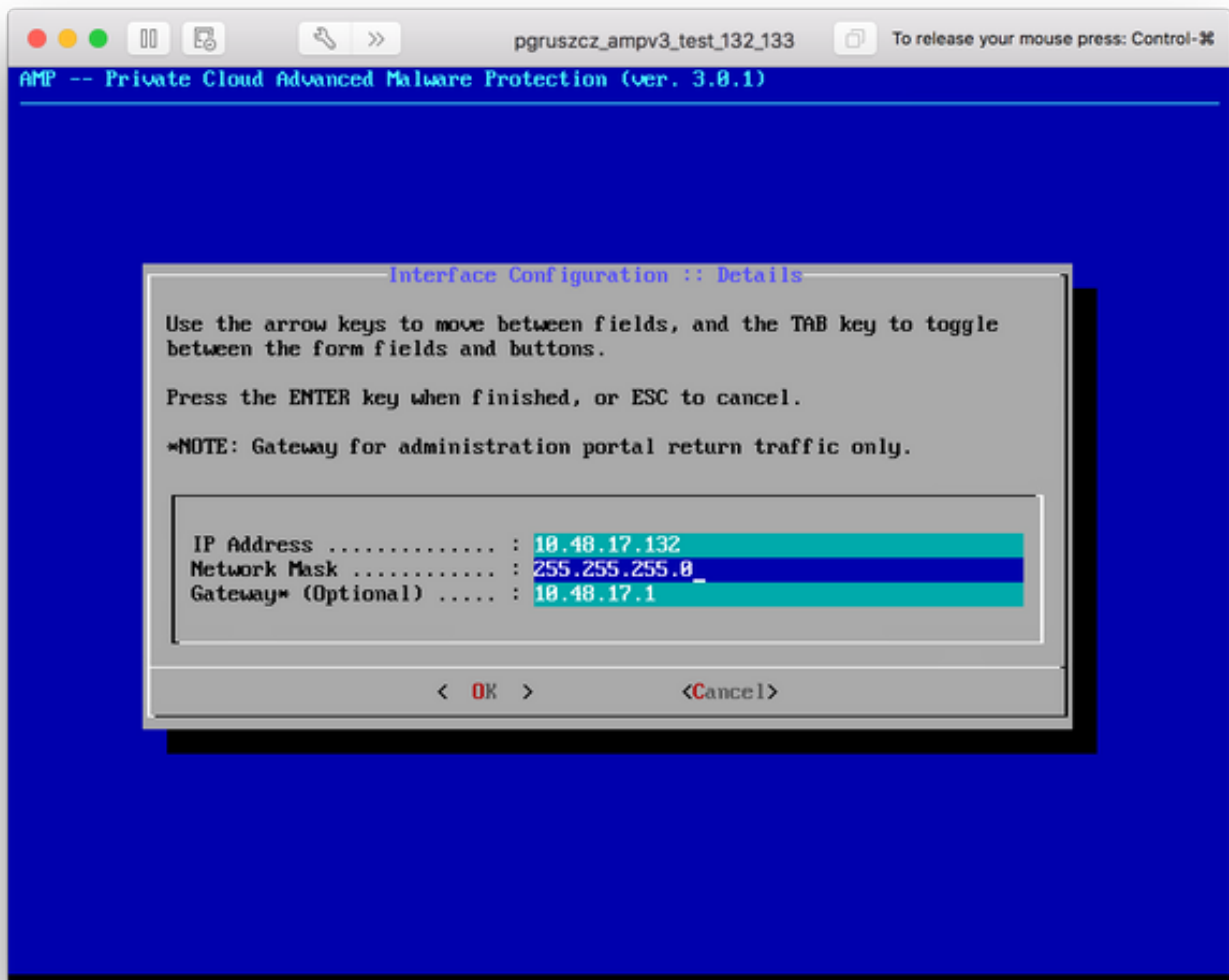
注意：本文中介绍的过程对FireAMP虚拟私有云2.4.4和3.0.1使用完全相同的主机名和IP地址。在遵循本指南时，必须在收集备份后关闭FireAMP虚拟私有云2.4.4。

步骤1.为安装了3.0.1版本的新创建的虚拟机实例打开控制台终端。您可以浏览Tab、Enter和箭头键。

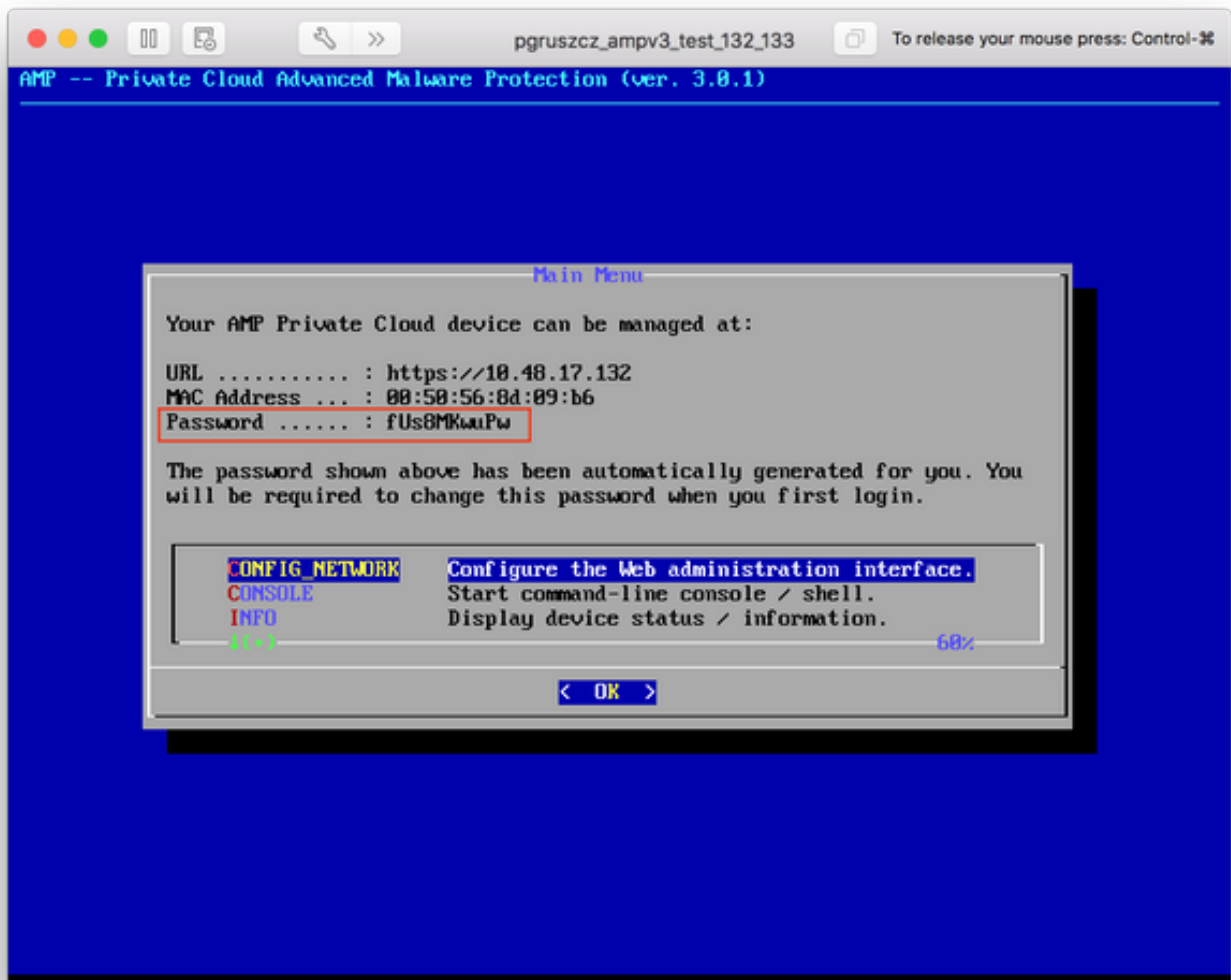
步骤2.导航至CONFIG_NETWORK，然后单击键盘上的Enter键，开始配置FireAMP私有云的管理IP地址。如果不想使用DHCP，请选择“否”，然后按Enter。



步骤3.输入IP地址、网络掩码和默认网关。导航至OK，如图所示。按 Enter。

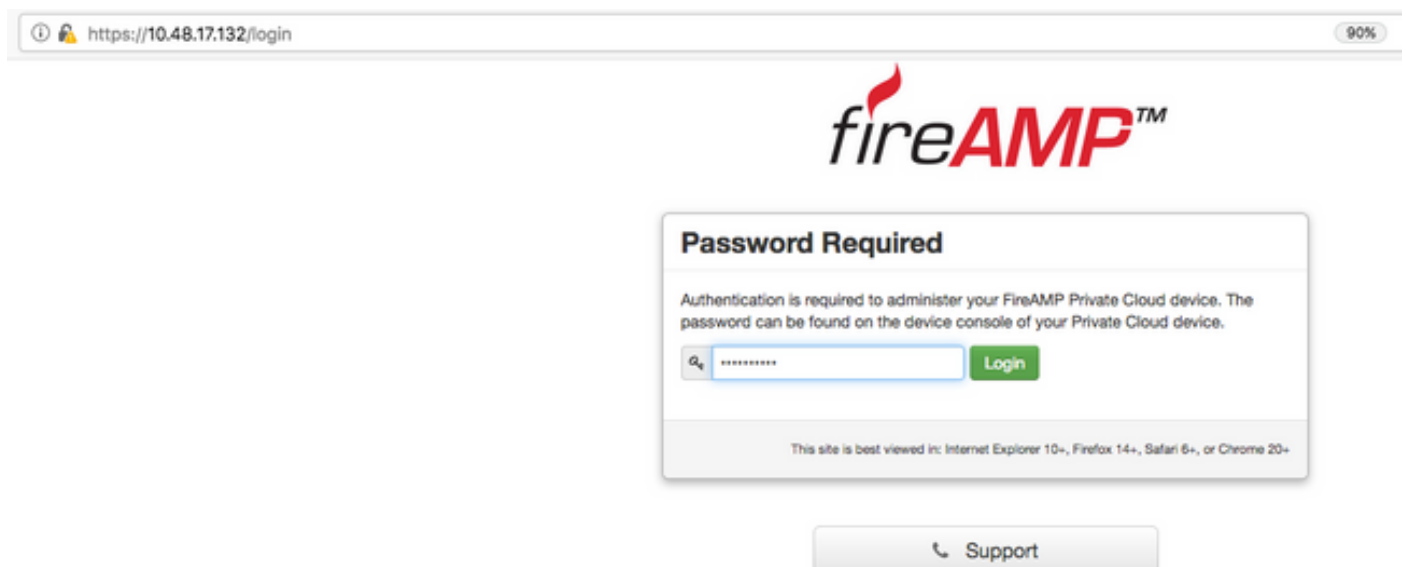


步骤4.网络配置更改需要重新启动接口。重新启动后，主控制台菜单重新显示，如图所示。这次您在URL行上看到IP地址。另请注意，系统将显示**初始密码**。这是在基于Web的设置中使用的一次性密码(后来称为初始密码)。

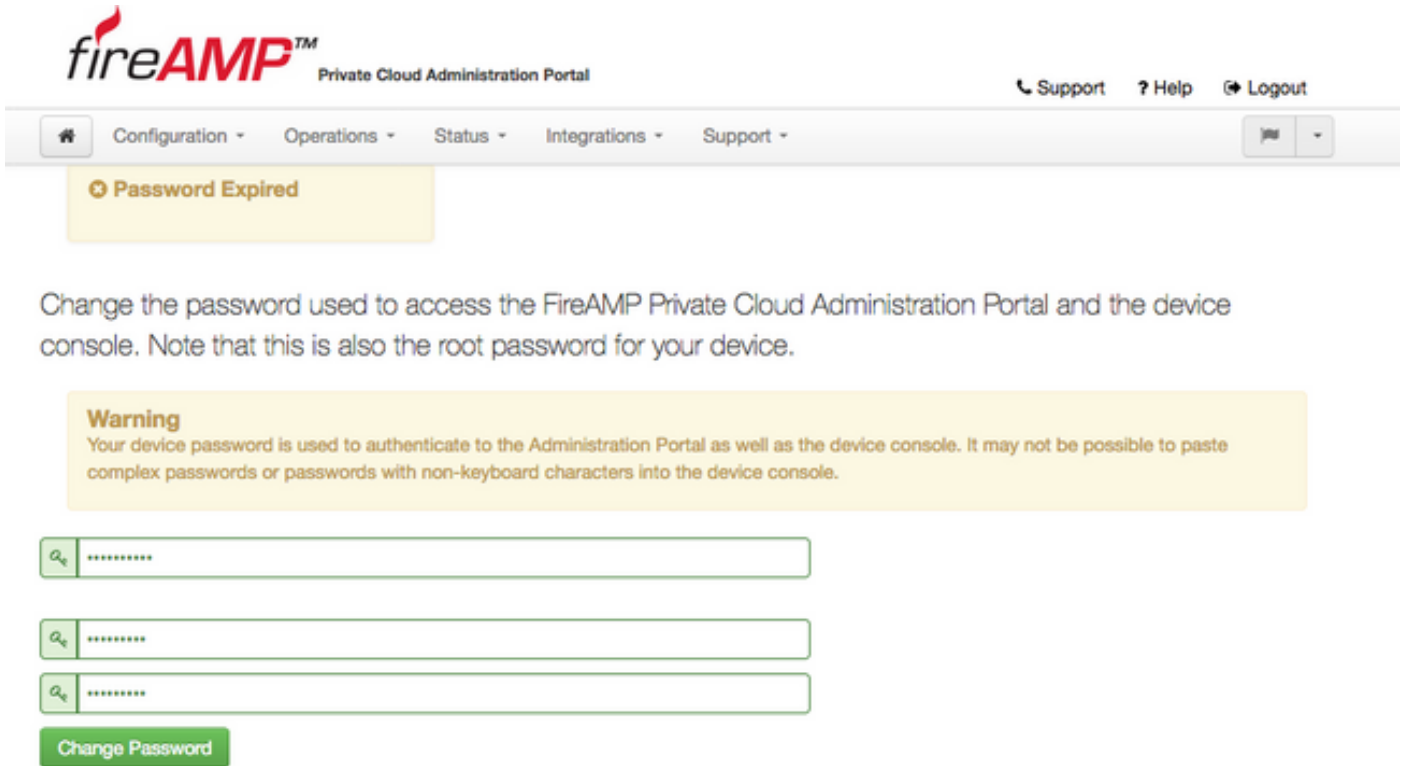


步骤5.打开Web浏览器并导航至设备的管理IP地址。FireAMP私有云最初生成自己的HTTPS证书时，您会收到证书错误。将浏览器配置为临时信任FireAMP私有云的自签名证书。

步骤6.您将看到一个屏幕来输入密码，如图所示。使用控制台的初始密码。单击“Login(登录)”。

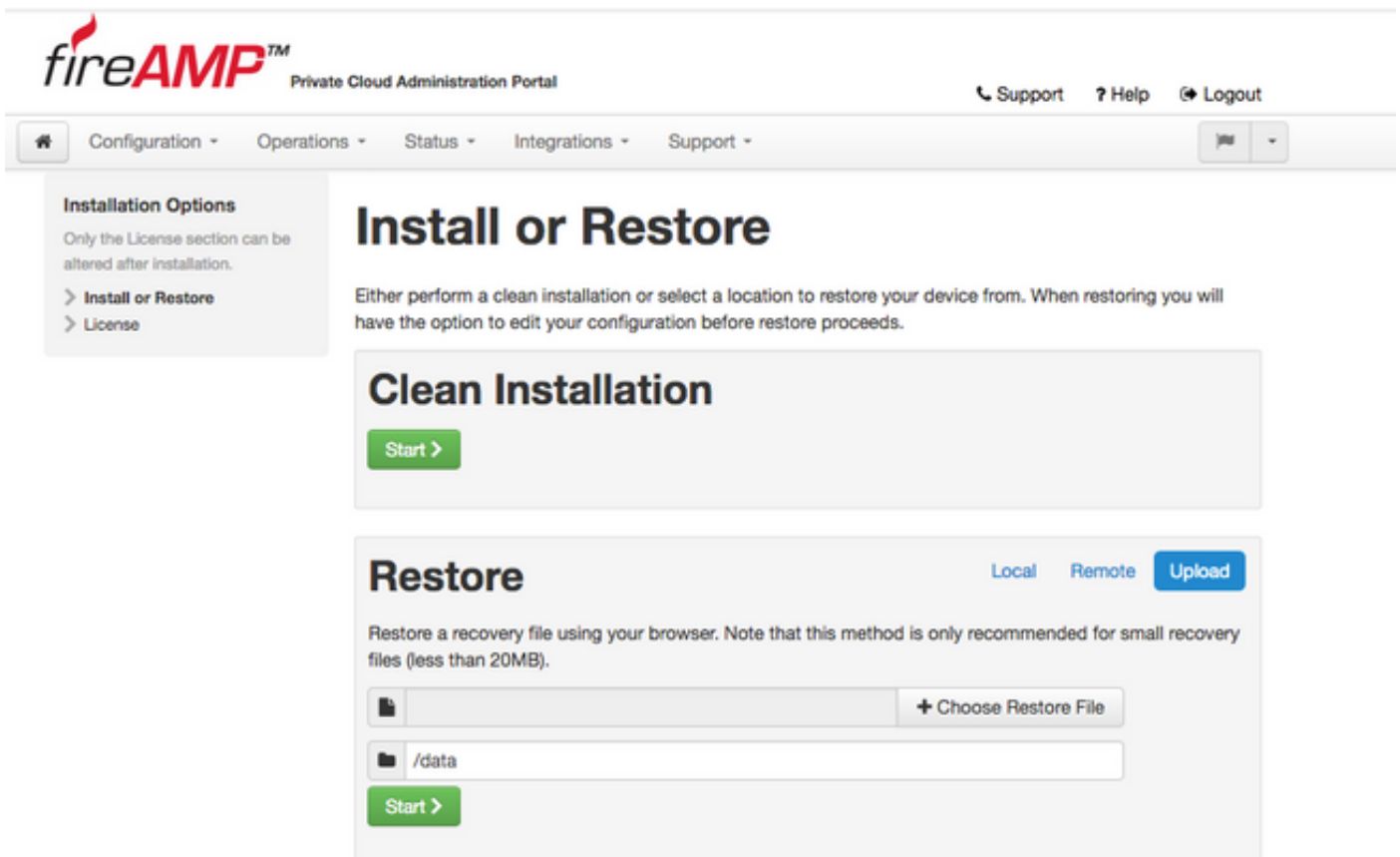


步骤7.成功登录后，您需要更改密码。在“旧密码”字段中使用控制台的初始密码。在“新密码”字段中使用新密码两次。单击“更改密码”。



4.备份还原

步骤1.管理员门户的欢迎页面提供安装3.0.1 FireAMP虚拟云的两种方式，如图所示。



步骤2.您可以选择以下三种不同方法之一将备份文件上传到新创建的FireAMP虚拟私有云实例：

本地 — 从设备上已显示的备份文件恢复配置（必须通过SFTP或SCP将文件放在设备上）。恢复过程开始后，文件会解压到正确的目录。因此，建议使用/data目录。

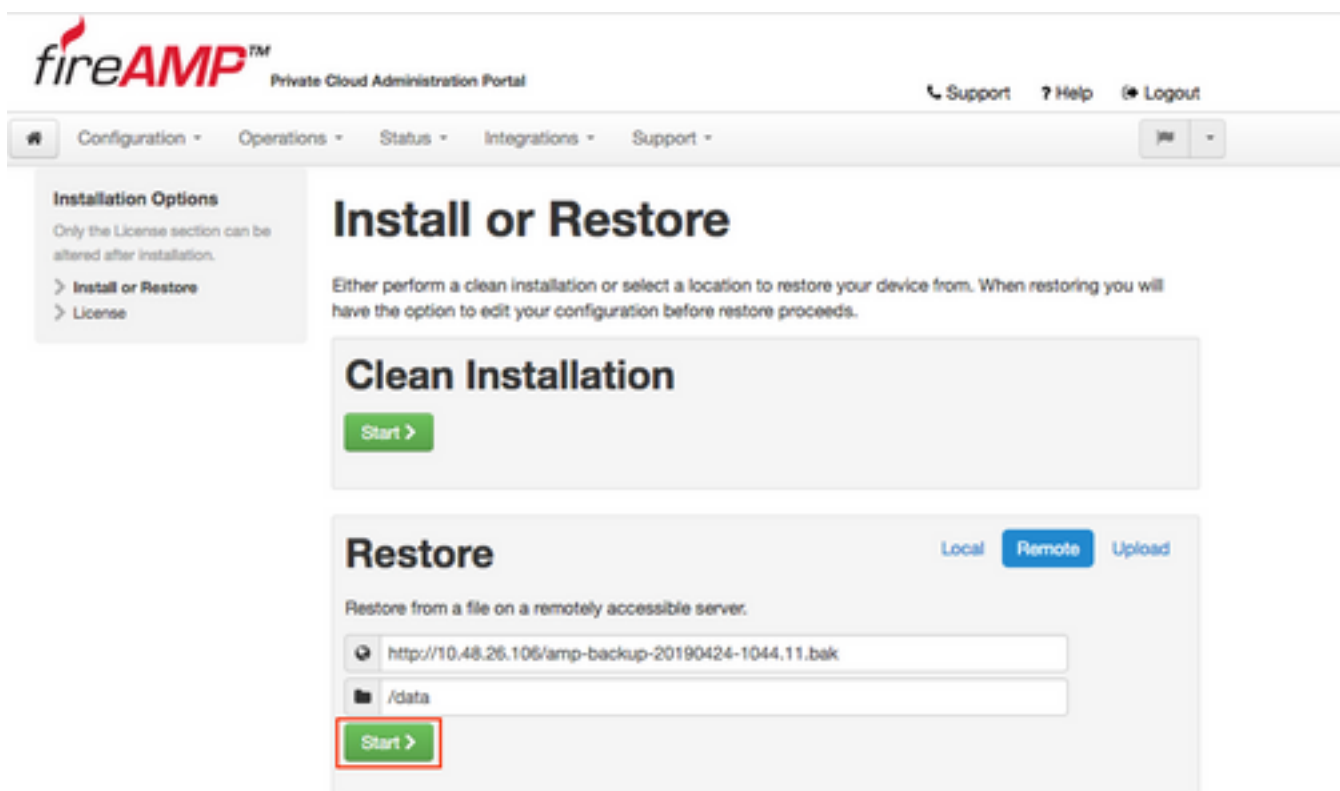
Remote — 从可远程访问的HTTP服务器上的文件恢复。

Upload — 从浏览器上载的文件恢复。仅当备份文件小于20MB时才有效。

在本例中，选择了remote选项。

注意：必须允许HTTP服务器正确连接。备份文件需要从私有云的角度进行访问。

单击**Start**按钮继续恢复，如图所示。



Installation Options

Only the License section can be altered after installation.

- > Install or Restore
- > License

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.

Clean Installation

Start >

Restore

Local **Remote** Upload

Restore from a file on a remotely accessible server.

Start >

步骤3.从备份恢复过程会替换您当前的配置。设备的SSH主机密钥和管理门户密码将被替换。您可以查看有关安装的部分配置。

Installation Options

Only the License section can be altered after installation.

- > **Install or Restore** ✓
- > License

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.

Preparing Restore

Your restore file is being processed, please wait.

```
portal/fireAMP/linux/1.7.0.545/rhel/7/CURRENT_REVISION
portal/fireAMP/linux/1.7.0.545/rhel/6
portal/fireAMP/linux/1.7.0.545/rhel/6/ciscoampconnector-1.7.0.545-1.el6.x86_64.rpm
portal/fireAMP/linux/1.7.0.545/rhel/6/fireamp-linux.tar.gz
portal/fireAMP/linux/1.7.0.545/rhel/6/CURRENT_REVISION
portal/fireAMP/linux/1.7.0.545/update.xml
portal/fireAMP/protectent
portal/fireAMP/protectent/REVISION
portal/fireAMP/protectent/5.1.15.10683
portal/fireAMP/protectent/5.1.15.10683/installer-32-tcp.exe
```

Clean Installation

[Start >](#)

Restore

[Local](#) [Remote](#) [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](#)

[Start >](#)

步骤4.备份文件复制成功后，恢复页面显示弹出消息，如图所示。单击Reconfigure Administration Portal Now按钮以完成恢复过程。

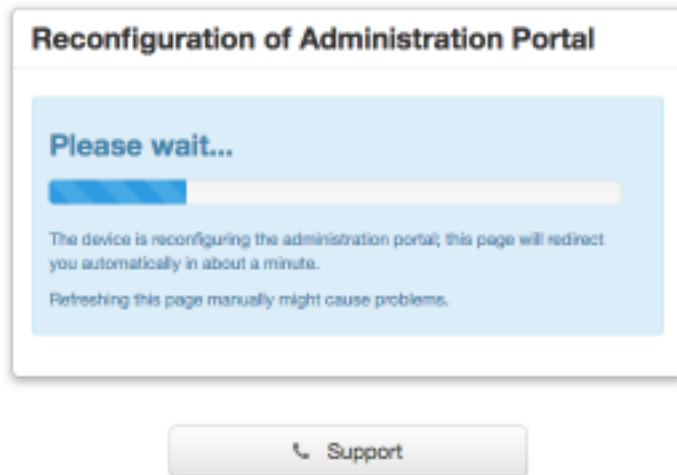


Reconfiguration of Administration Portal

Reconfiguration of the Administration Portal must be performed to update authentication configuration and certificates.

[Reconfigure Administration Portal Now](#)

[Support](#)



步骤5.重新配置完成后，再次显示管理门户页面，如图所示。从现在开始，要登录，您必须使用2.4.4 FireAMP虚拟私有云备份的密码。

该图显示了正确安装的大部分工作，如已完成（检查点标记）。备份从FireAMP虚拟私有云2.4.4恢复配置后，应恢复配置。

Installation Options
Only the License section can be altered after installation.

- > Install or Restore ✓
- > License ✓
- > Welcome ✓
- > Deployment Mode ✓
- > FireAMP Console Account ✓
- > Hardware Requirements ✓

Configuration

- > Network ✓
- > Date and Time ✓
- > Certificate Authorities ✓
- > Upstream Proxy Server ✓
- > Cisco Cloud ✓
- > Email ✓
- > Notifications ✓
- > Backups ✓
- > SSH ✓
- > Syslog ✓
- > Updates ✓

Services

- > Authentication ✓
- > FireAMP Console ✓
- > Disposition Server ✓
- > Disposition Server ✓
- > Extended Protocol ✓
- > Disposition Update ✓
- > Service ✓
- > Firepower Management Center ✓

Other

- > Review and Install

[▶ Start Installation](#)

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 may review and edit some parts of your configuration before proceeding with installation.

Clean Installation

[Start >](#)

Restore

Local Remote [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](#)

[Start >](#)

5. 证书颁发机构

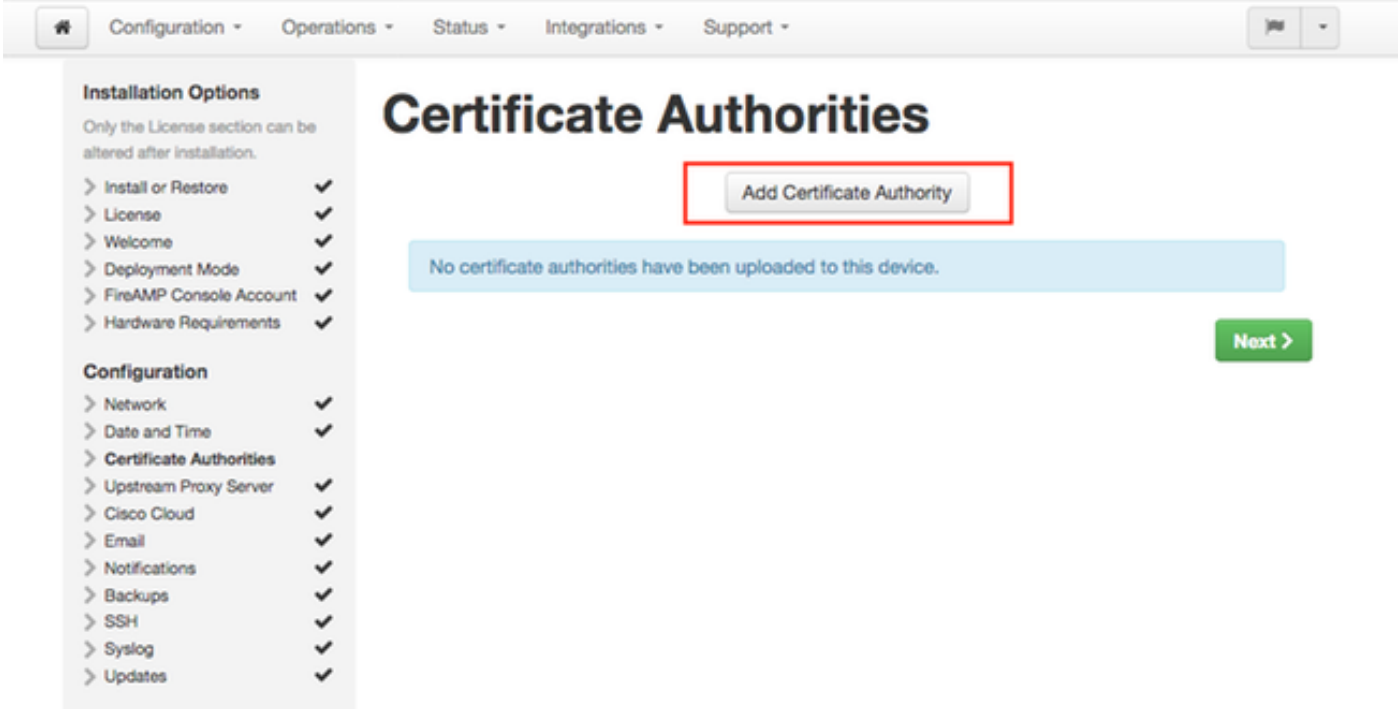
FireAMP虚拟私有云版本3.0.1在系统运行方式方面引入了新功能和新行为。在开始安装之前，需要配置并完成这些配置。

第一个新组件是证书颁发机构，在早期版本中不存在。

“证书颁发机构”(Certificate Authorities)页面允许您管理服务的根证书（如果要使用自定义证书颁发机构）。如果需要，您可以下载或删除根证书。

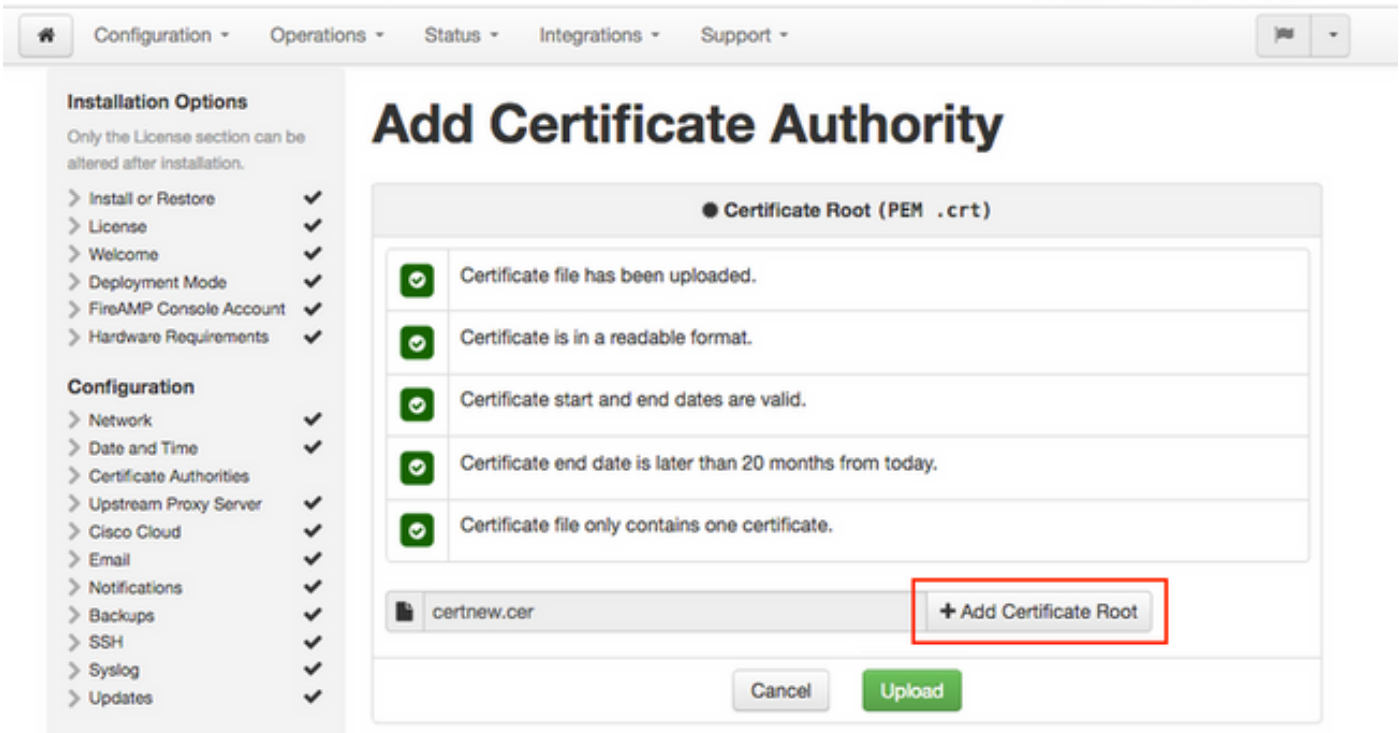
注意：证书颁发机构受信任存储仅用于虚拟云服务（用于构建和验证正确的证书链）。它不用于各种vPC集成，如ThreatGrid。

步骤1. 导航至安装选项面板中的配置 -> 证书颁发机构部分。单击添加证书颁发机构按钮，如图所示。

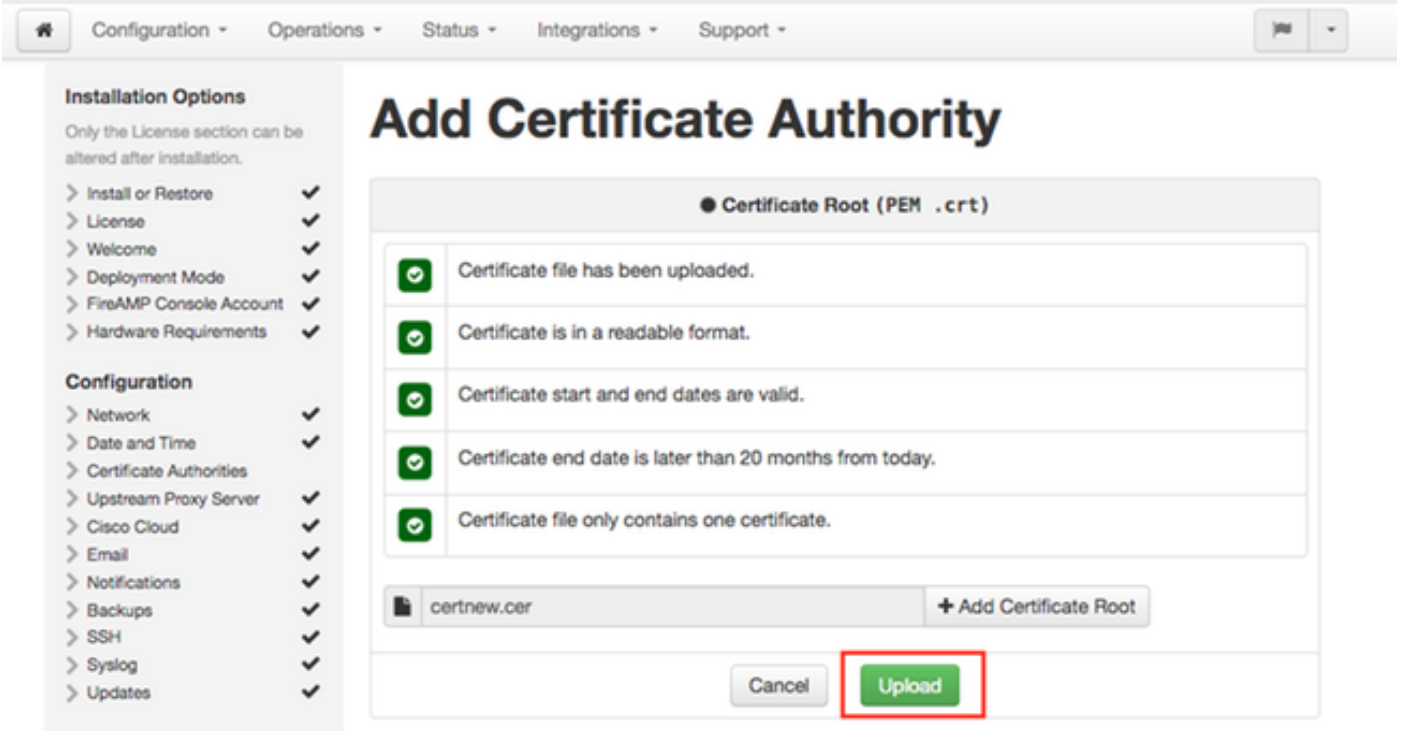


步骤2.单击Add Certificate Root(如图所示)上传证书。虚拟私有云接受证书需要满足所有所列要求。

注意：在升级过程中，必须添加用于签署身份验证服务证书的根证书，如下一节所述。



步骤3.更新证书后，单击Upload按钮（如图所示）上传证书。



如果使用任何从属证书颁发机构来签署任何服务证书，请在本节中也上传这些证书。

警告：即使您为身份验证服务生成自签名证书，请确保在“证书颁发机构”部分上传该证书，然后再执行后续步骤。

6. 身份验证服务

在3.0.1版本中添加且未从备份导入的第二个组件是“服务”部分下的“身份验证”。

将来版本的私有云将使用身份验证服务来处理用户身份验证请求。3.0.1版中添加了该版本，以便将来兼容。

步骤1. 导航至“安装选项”面板中的“服务” —> “身份验证”部分。输入唯一 **Authentication Hostname**，在主机名部分中指定的DNS条目必须在DNS服务器上正确配置并指向虚拟私有云控制台接口IP地址。

Installation Options

Only the License section can be altered after installation.

- > Install or Restore ✓
- > License ✓
- > Welcome ✓
- > Deployment Mode ✓
- > FireAMP Console Account ✓
- > Hardware Requirements ✓

Configuration

- > Network ✓
- > Date and Time ✓
- > Certificate Authorities ✓
- > Upstream Proxy Server ✓
- > Cisco Cloud ✓
- > Email ✓
- > Notifications ✓
- > Backups ✓
- > SSH ✓
- > Syslog ✓
- > Updates ✓

Services

- > Authentication ✓
- > FireAMP Console ✓
- > Disposition Server ✓
- > Disposition Server Extended Protocol ✓
- > Disposition Update Service ✓
- > Firepower Management Center ✓

Authentication Configuration

Authentication Hostname HELP

Validate DNS Name

Authentication Certificate Replace Certificate

No certificate has been provided for this service.

Next >

步骤2.指定主机名并正确解析后，单击Replace Certificate按钮，如图所示。

Installation Options

Only the License section can be altered after installation.

- > Install or Restore ✓
- > License ✓
- > Welcome ✓
- > Deployment Mode ✓
- > FireAMP Console Account ✓
- > Hardware Requirements ✓

Configuration

- > Network ✓
- > Date and Time ✓
- > Certificate Authorities ✓
- > Upstream Proxy Server ✓
- > Cisco Cloud ✓
- > Email ✓
- > Notifications ✓
- > Backups ✓
- > SSH ✓
- > Syslog ✓
- > Updates ✓

Services

- > Authentication ✓
- > FireAMP Console ✓
- > Disposition Server ✓
- > Disposition Server ✓
- > Extended Protocol ✓
- > Disposition Update ✓
- > Service ✓
- > Firepower Management ✓
- > Center ✓

Authentication Configuration

Authentication Hostname

HELP

authentication.amptest.pgruszczy.com

Validate DNS Name

Authentication Certificate

Replace Certificate

No certificate has been provided for this service.

Next >

注意：如果您需要证书生成方面的帮助，请访问文章：[如何生成和添加安装AMP VPC 3.x Arcent所需的证书，以了解有关硬件要求的详细信息。](#)

步骤3.单击“**选择证书**”按钮上传身份验证服务证书，如图所示。

Installation Options

Only the License section can be altered after installation.

- > Install or Restore ✓
- > License ✓
- > Welcome ✓
- > Deployment Mode ✓
- > FireAMP Console Account ✓
- > Hardware Requirements ✓

Configuration

- > Network ✓
- > Date and Time ✓
- > Certificate Authorities ✓
- > Upstream Proxy Server ✓
- > Cisco Cloud ✓
- > Email ✓
- > Notifications ✓
- > Backups ✓
- > SSH ✓
- > Syslog ✓
- > Updates ✓

Services

- > Authentication ✓
- > FireAMP Console ✓
- > Disposition Server ✓
- > Disposition Server ✓
- > Extended Protocol ✓
- > Disposition Update ✓
- > Service ✓
- > Firepower Management ✓
- > Center ✓

Other

- > Review and Install

▶ Start Installation

Authentication Configuration

Authentication Hostname

HELP

authentication.amptest.pgruszc.com

Validate DNS Name

Authentication Certificate

Undo

Replace Certificate

● Certificate (PEM .crt)

- Certificate file has been uploaded.
- Certificate is in a readable format.
- Certificate start and end dates are valid.
- Certificate contains a subject.
- Certificate contains a common name.
- Certificate contains a public key matching the uploaded key.
- Certificate matches hostname.
- Certificate is signed by a trusted root authority.

🔑 Key (PEM .key)

- Key file has been uploaded.
- Key contains a supported key type.
- Key contains public key material.
- Key contains private key material.
- Key contains a public key matching the uploaded certificate.

private.key

+ Choose Key

authentication_serv

+ Choose Certificate

Next >

步骤4. 下一步是上传证书的私钥文件。要添加它，请单击“选择密钥”按钮。

Installation Options

Only the License section can be altered after installation.

- > Install or Restore ✓
- > License ✓
- > Welcome ✓
- > Deployment Mode ✓
- > FireAMP Console Account ✓
- > Hardware Requirements ✓

Configuration

- > Network ✓
- > Date and Time ✓
- > Certificate Authorities ✓
- > Upstream Proxy Server ✓
- > Cisco Cloud ✓
- > Email ✓
- > Notifications ✓
- > Backups ✓
- > SSH ✓
- > Syslog ✓
- > Updates ✓

Services

- > Authentication ✓
- > FireAMP Console ✓
- > Disposition Server ✓
- > Disposition Server ✓
- > Extended Protocol ✓
- > Disposition Update ✓
- > Service ✓
- > Firepower Management ✓
- > Center ✓

Other

- > Review and Install

▶ Start Installation

Authentication Configuration

Authentication Hostname

HELP

authentication.amptest.pgruszc.com

Validate DNS Name

Authentication Certificate

Undo

Replace Certificate

● Certificate (PEM .crt)

- Certificate file has been uploaded.
- Certificate is in a readable format.
- Certificate start and end dates are valid.
- Certificate contains a subject.
- Certificate contains a common name.
- Certificate contains a public key matching the uploaded key.
- Certificate matches hostname.
- Certificate is signed by a trusted root authority.

authentication_serv + Choose Certificate

🔑 Key (PEM .key)

- Key file has been uploaded.
- Key contains a supported key type.
- Key contains public key material.
- Key contains private key material.
- Key contains a public key matching the uploaded certificate.

private.key + Choose Key

Next >

步骤5.在继续下一步之前，您需要确保满足所有要求。如果用于签署身份验证服务的根证书正确放在证书颁发机构存储中，则符合突出显示要求。

警告：您只能在此阶段更改所有其他服务的主机名。安装完成后，无法更改服务的主机名。稍后，您只能更改证书。您需要确保了解此类操作的风险。如果更改连接器或面向网络设备的AMP所使用的服务的主机名，则升级完成后，这些服务可能会出现与云通信的问题。

7.安装

步骤1.完成每个部分并将其标记为有效后，即开始安装。导航至“复查后安装”部分，然后单击“开始安装”按钮，如图所示。

Installation Options

Only the License section can be altered after installation.

- > Install or Restore ✓
- > License ✓
- > Welcome ✓
- > Deployment Mode ✓
- > FireAMP Console Account ✓
- > Hardware Requirements ✓

Configuration

- > Network ✓
- > Date and Time ✓
- > Certificate Authorities ✓
- > Upstream Proxy Server ✓
- > Cisco Cloud ✓
- > Email ✓
- > Notifications ✓
- > Backups ✓
- > SSH ✓
- > Syslog ✓
- > Updates ✓

Services

- > Authentication ✓
- > FireAMP Console ✓
- > Disposition Server ✓
- > Disposition Server ✓
- > Extended Protocol ✓
- > Disposition Update ✓
- > Service ✓
- > Firepower Management Center ✓

Other

- > Review and Install

▶ Start Installation

Review and Install

Review the following information and, once you are satisfied with your configuration settings, begin the installation. Note that the configuration shown below cannot be altered after installation.

Restore Ready

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.

Installation Type Edit

Cloud Proxy

- Requires an Internet connection and communication with FireAMP Connectors managed by this device.
- Disposition queries are proxied to the Cisco Cloud.
- Content updates contain TETRA definitions.
- Content and software updates can be retrieved and applied automatically.

FireAMP Console Account Edit

Name	Piotr Gruszczynski
Email Address	pgruszcz@cisco.com
Business Name	Cisco - pgruszcz

Recovery

When restoring from a backup, a recovery image is not required.

▶ Start Installation

步骤2.管理员门户向您显示当前状态、开始日期和日志。如果遇到需要支持注意的任何错误或问题，请单击Download Output按钮收集日志（如图所示），并将其附加到TAC案例。

The device is installing...

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

State	Started	Finished	Duration
▶ Running	Fri Apr 26 2019 13:54:03 GMT+0200 (Central European Summer Time) 0 day, 0 hour, 1 minute, 14 seconds ago	⌚ Please wait...	⌚ Please wait...

Your device will need to be rebooted after this operation.

Reboot

Output

```
[2019-04-26T11:55:10+00:00] DEBUG: Current content's checksum:
[2019-04-26T11:55:10+00:00] DEBUG: Rendered content's checksum: 1c2c8f5383551c7c76409b59eec5833923094af0c69d8d967a552c3d47f2a609
[2019-04-26T11:55:10+00:00] INFO: template[/opt/fire/amp/portal/config/linux/config_items.chef.yml] updated content
[2019-04-26T11:55:10+00:00] INFO: template[/opt/fire/amp/portal/config/linux/config_items.chef.yml] owner changed to 0
[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 644
[2019-04-26T11:55:10+00:00] INFO: template[/opt/fire/amp/portal/config/linux/config_items.chef.yml] not queuing delayed action run on execute[reset_policy_network_items] (delayed), as it's already been queued
[2019-04-26T11:55:10+00:00] INFO: Processing template[/opt/fire/amp/portal/config/virtual/config_items.chef.yml] action create (fireamp-portal::config_chef line 70)
[2019-04-26T11:55:10+00:00] DEBUG: Current content's checksum:
[2019-04-26T11:55:10+00:00] DEBUG: Rendered content's checksum: 06c8c02083c15cab1270ec1e3e62c593d5627a387793cce53ae290817d555b1c
```

Download Output

步骤3.安装成功后，必须重新启动设备才能完成该过程。单击Reboot按钮继续重新启动过程，如图所示。

The device is installing...

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

State	Started	Finished	Duration
✓ Successful	Fri Apr 26 2019 13:54:03 GMT+0200 (Central European Summer Time) 0 day, 0 hour, 10 minutes, 23 seconds ago	Fri Apr 26 2019 14:03:57 GMT+0200 (Central European Summer Time) 0 day, 0 hour, 0 minute, 28 seconds ago	0 day, 0 hour, 9 minutes, 54 seconds

Your device will need to be rebooted after this operation.

Reboot

Output

```
un (/opt/fire/chef/cookbooks/daemontools/providers/service.rb line 148)
[2019-04-26T12:03:39+00:00] INFO: execute[/opt/fire/embedded/bin/svc -t /service/fireamp-haproxy] ran successfully
[2019-04-26T12:03:39+00:00] INFO: template[/opt/fire/amp/portal/db/migrate/20190426120103_update_license_summary_2019
0426120051.rb] sending run action to execute[run_migrate_license_summary] (delayed)
[2019-04-26T12:03:39+00:00] INFO: Processing execute[run_migrate_license_summary] action run (fireamp-onprem::license
line 142)
[2019-04-26T12:03:57+00:00] INFO: execute[run_migrate_license_summary] ran successfully
[2019-04-26T12:03:57+00:00] INFO: Chef Run complete in 186.283958188 seconds
[2019-04-26T12:03:57+00:00] INFO: Running report handlers
[2019-04-26T12:03:57+00:00] INFO: Report handlers complete
Sending system notification (this may take some time).
Registration against the FireAMP Disposition Server has previously succeeded.
```

=====
Installation has finished successfully! Please reboot!
=====

Download Output

步骤4.在重新启动过程后，您可以登录到**管理员门户**和**控制台门户**。升级过程已完成。

8.升级后检查

设备重新启动后，请确保恢复成功完成：

步骤1.检查连接器能否与新安装的虚拟设备3.0.1通信。

步骤2.确保Events、Device Trajectory和Computers对象已正确恢复并显示在控制台门户中。

步骤3.如果您有AMP for Network集成（如FMC、ESA、WSA），请确保它们能与文件处置服务器通信。

步骤4.检查任何内容/软件（操作 —>更新设备）更新，然后继续安装。

强烈建议执行测试以确保成功升级。

虚拟私有云3.0.1中的更改

1. Windows连接器版本6.1.7

私有云3.0.1随6.1.7 Windows连接器版本支持一起提供，您可以在以下链接中找到有关它的文档：
[6.1.7版本说明](#)

警告：如果您对证书进行了任何更改，请确保在升级或安装到Windows连接器版本6.1.7之前，用于私有云服务的证书在终端本身上受信任。信任需要在计算机级别，而不是用户级别。如果不满足此条件，连接器不信任私有云提供的证书，该证书使它们处于断开状态。

2. 证书颁发机构和身份验证服务

3.0用户指南中详细描述了更改：[私有云用户指南](#)。

如果要使用自定义证书颁发机构，证书颁发机构允许您管理服务的根证书。如果需要，您可以下载或删除根证书。

将来版本的私有云将使用身份验证服务来处理用户身份验证请求。3.0.1版中添加了该版本，以便将来兼容。