F-Secure Messaging Security Gateway

Deployment Guide

Contents

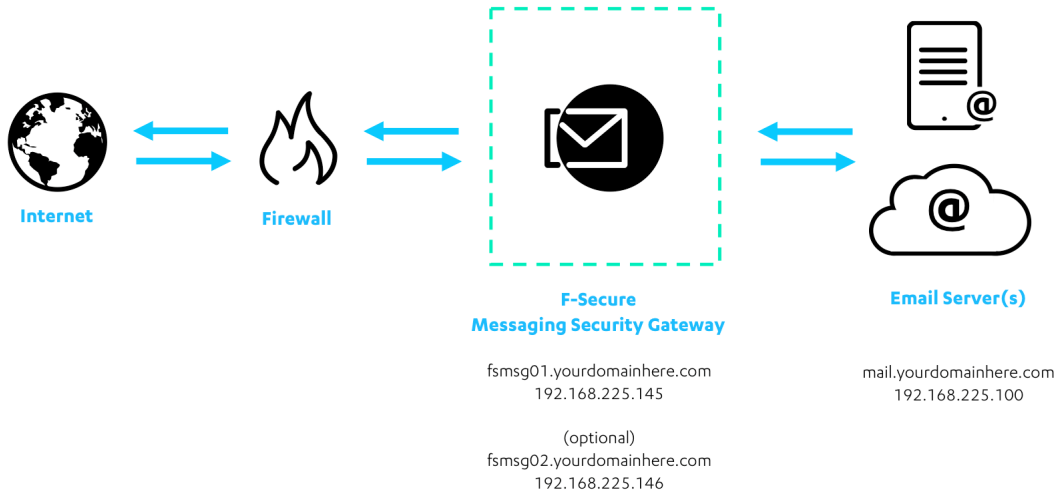
Deploying F-Secure Messaging Security Gateway

Topics:

This guide describes how to install F-Secure Messaging Security Gateway.

1.1 The typical product deployment model

The diagram shows a typical deployment model of the product.



1.2 Configuring the firewall

You need to configure your company firewalls to allow the network traffic through.

E-mail traffic

Source and destination	Protocol	Port
Internet ← → F-Secure Messaging Security Gateway	TCP	25
Microsoft Exchange ← → F-Secure Messaging Security Gateway	TCP	25
F-Secure Messaging Security Gateway ← → DNS Server	TCP/UDP	53

Updates

Source and destination	Protocol	Port
F-Secure Messaging Security Gateway → Internet	TCP	80, 443

Administration

Source and destination	Protocol	Port
Administrator → F-Secure Messaging Security Gateway	TCP	10000
Administrator → F-Secure Messaging Security Gateway	TCP	22

Importing users (optional)

Source and destination	Protocol	Port
F-Secure Messaging Security Gateway -> LDAP Server	TCP	389 or 636

End-user commands

Source and destination	Protocol	Port
End-user → F-Secure Messaging Security Gateway	TCP	443

1.3 Installing the virtual appliance from OVF

The following steps provide instructions for installing the OVF image.

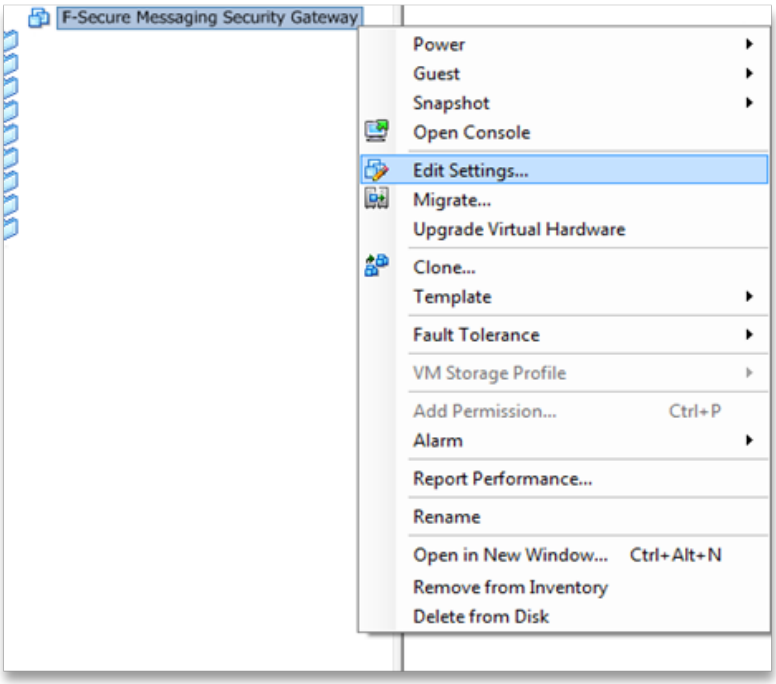
If you are using a hardware appliance, you can skip this step.

1. Verify the OVF files are available in a directory or URL that you can navigate to using the vSphere Client.
2. From the vSphere Client **File** menu, select **Deploy OVF Template**.
3. In the **Deploy OVF Template** pop-up window, browse to the directory where OVF file is located, and then click **Next**.
4. Enter a name for the virtual appliance (for example, F-Secure Messaging Security Gateway). Click **Next**.
5. Select a datastore. Highlight the datastore and click **Next**.
6. For the Disk Format, select the **Thick provisioned format** radio button and then click **Next**.

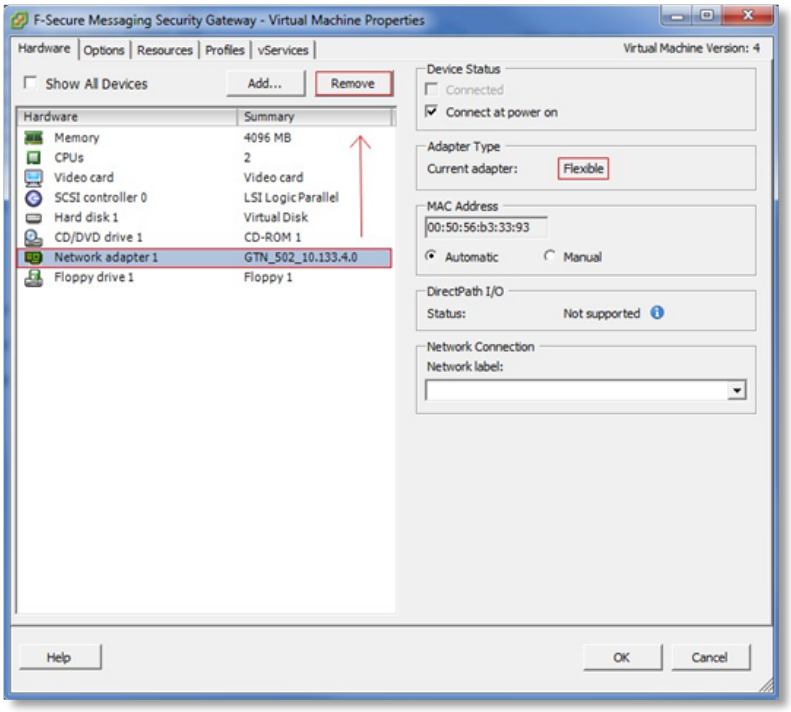
   Thick Provisioning Lazy Zeroed: Allocates the disk space statically (no other volumes can take the space), but doesn't write zeros to the blocks until the first write takes place to that block during runtime (which includes a full disk format).

   Thick Provisioning Eager Zeroed: Allocates the disk space statically (no other volumes can take the space), and writes zeros to all the blocks.

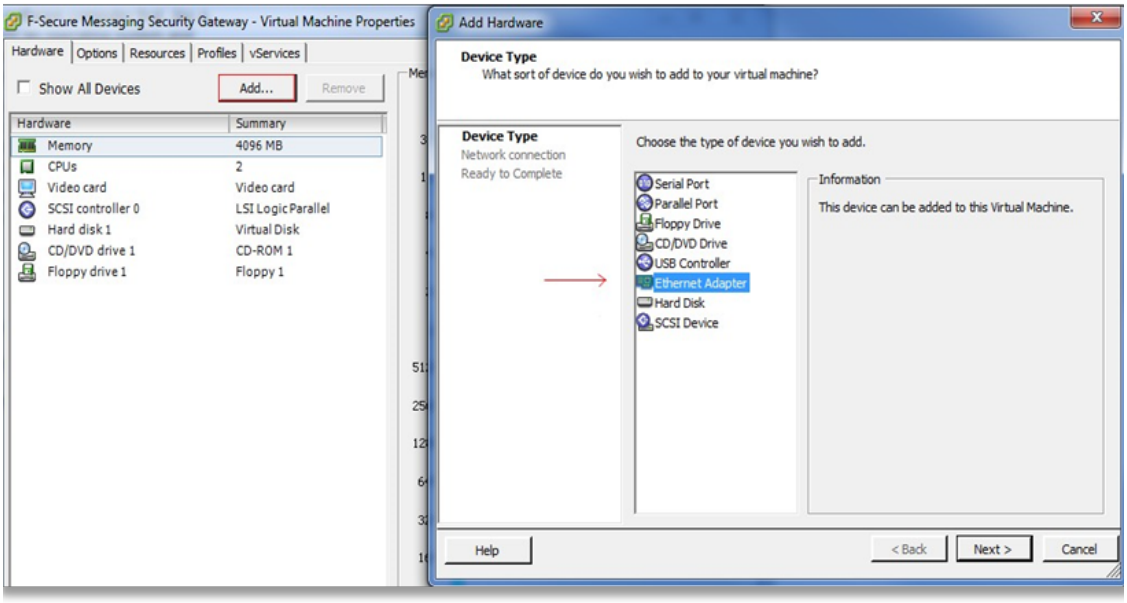
7. Click **Finish** to complete the installation. It will take several minutes for the installation to complete.
8. Before you start the OVF image, you will need to edit the instance settings:



9. **Remove** the default flexible type adapter:



10. Add a new network adapter:
    a) Select adapter type E1000 and click **Next**.
    b) Confirm the settings.
    c) Click **Finish**.



For highest reliability, F-Secure strongly recommends the E1000 network adapter over the Flexible.

11. Everything is now configured and you can start to use the image.

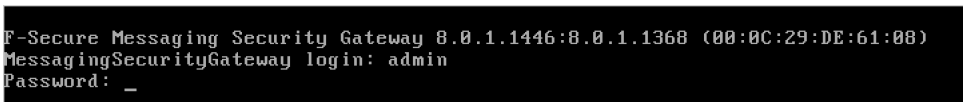
Note: The OVF image size is either 80 GB or 250 GB. We recommend that you use the larger image for the first server (master). You can download the OVF images from this link: *http://www.f-secure.com/en/web/business_global/support/downloads/-/carousel/view/96*.

1.4 Setting up the appliance through a console

Follow these instructions to set up F-Secure Messaging Security Gateway with the console.

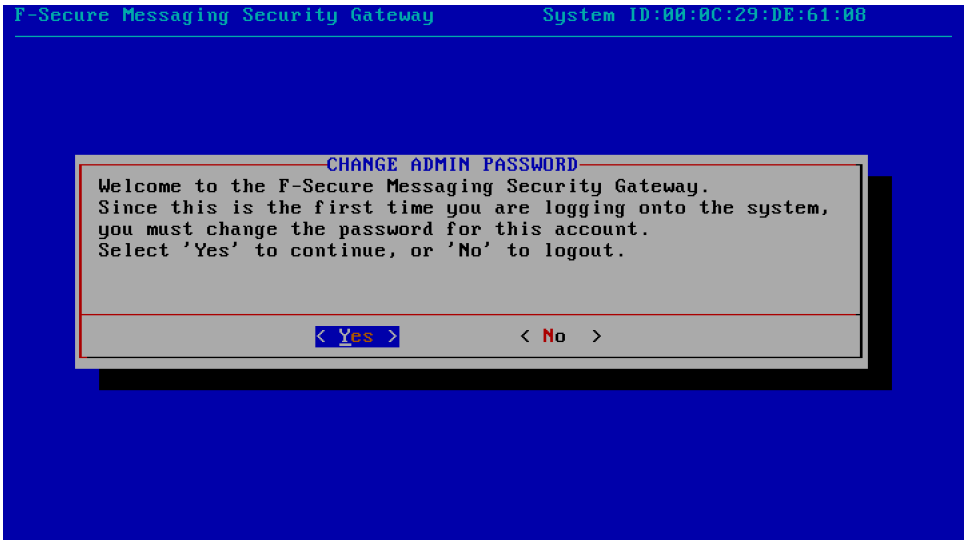
1. Log in to the appliance with the following user name and password:

- Login: admin
- Password: password



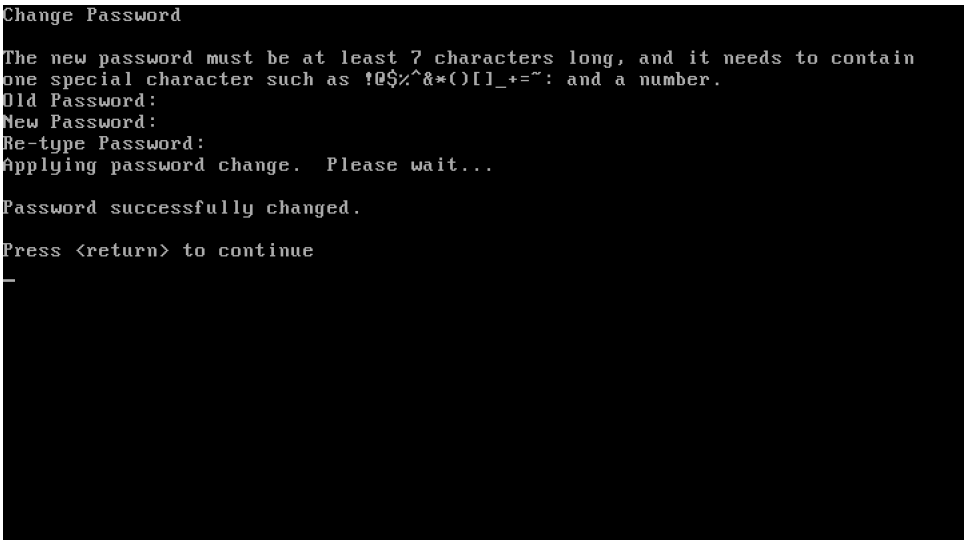
The welcome screen opens.

2. Select **Yes** to change the admin password.



3. Enter your new admin password.

   At this stage, the keyboard input language is US English. When you enter a new password, make sure that you use characters that are available after you change the keyboard layout.



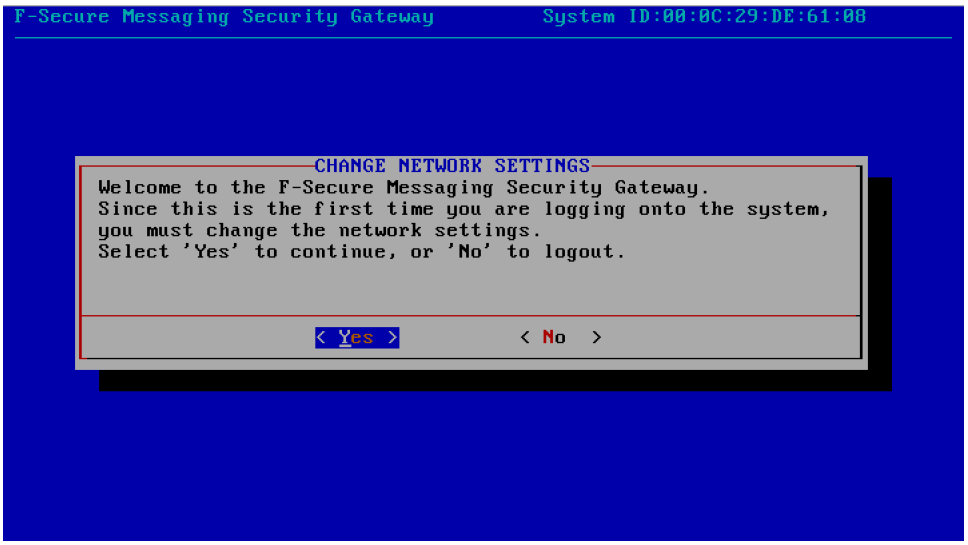
4. Press `Enter`.

Next, you need to change the network settings.

1.5 Changing the network settings

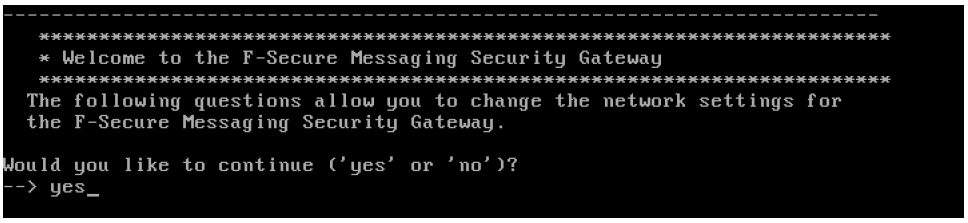
You need to change the network settings the first time you log in to the system.

1. Select **Yes** to change the network settings.

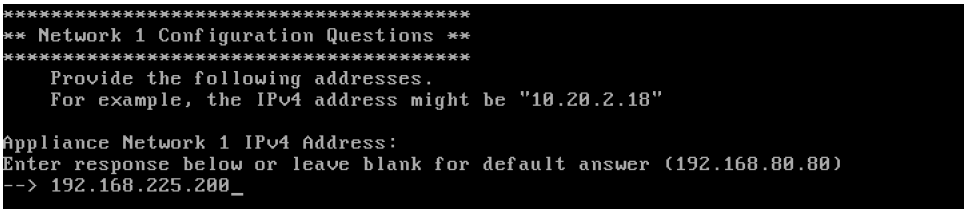


The network configuration wizard opens.

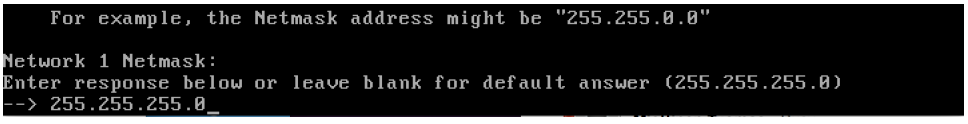
2. Enter `Yes` to continue.



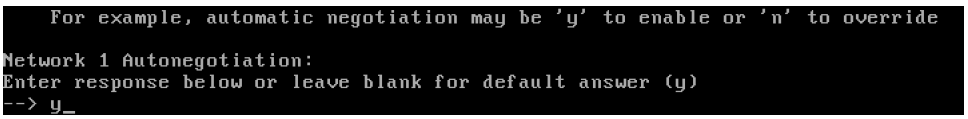
3. Enter the IP address of the appliance.



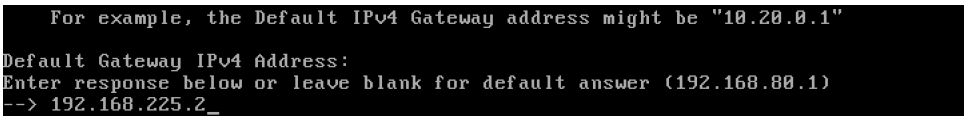
4. Enter the subnet mask of the appliance.



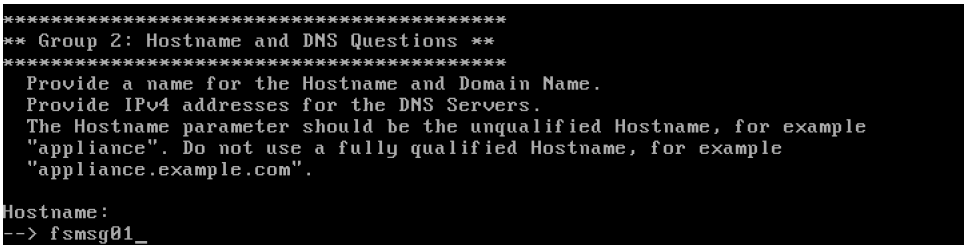
5. Enter `y` for the automatic negotiation mode, unless you want to manually configure the transmission parameters of your network device.



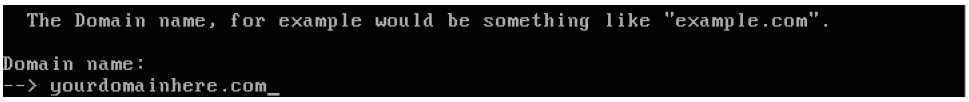
6. Enter the IP address of the default gateway.



7. Enter the host name of the appliance.

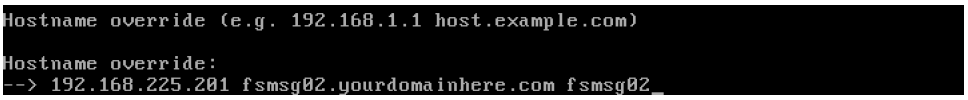


8. Enter the domain name.

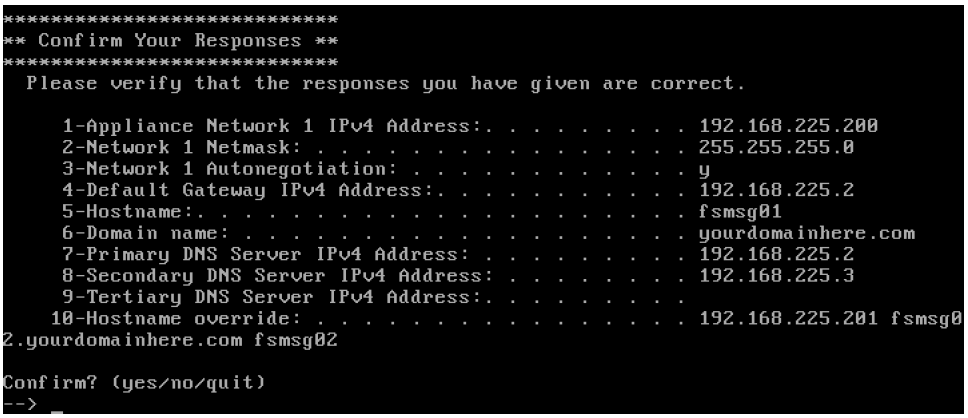


9. Enter the IP addresses of the DNS servers in use.
   We recommend that you use at least two different DNS server addresses for redundancy.

10. Enter a host name override if you are creating two nodes cluster. Add the agent information to the first server (master), and add the master server information if you are installing the agent.

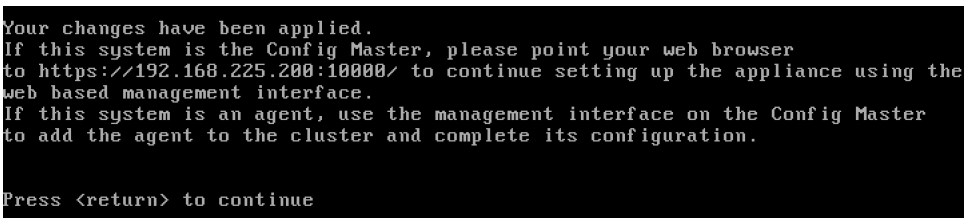


11. Enter `Yes` to confirm the network settings.



Your new settings are saved.

12. When the new settings have been saved, press ENTER.

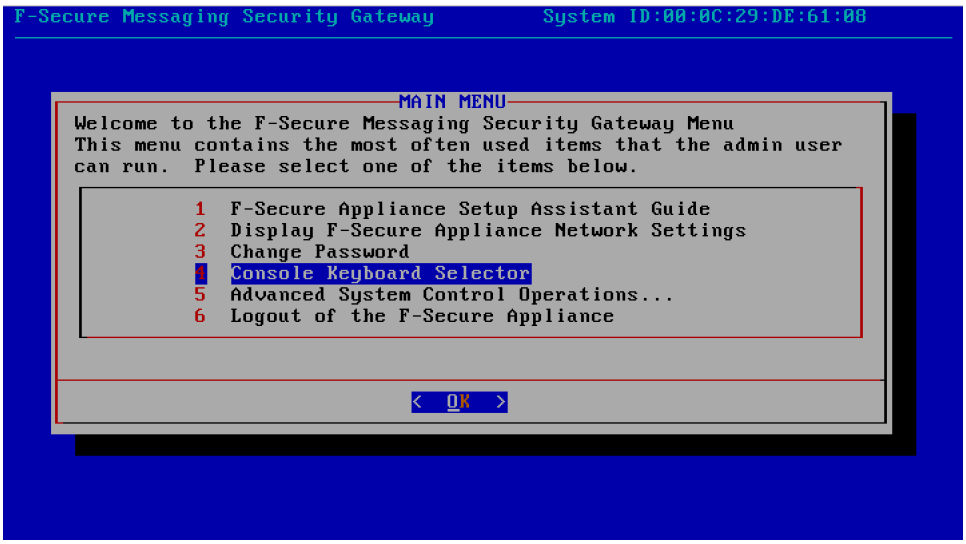


Next, change the keyboard layout to suit your needs.

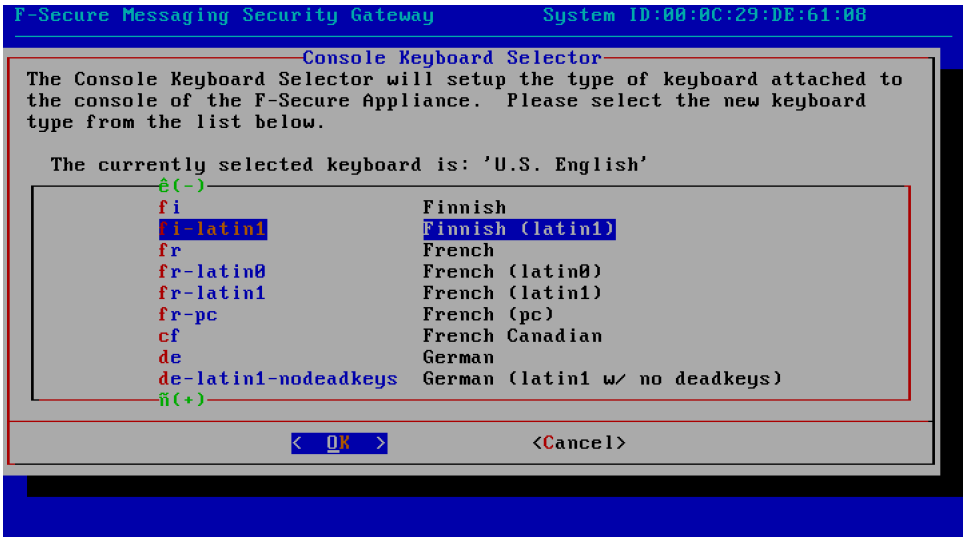
1.6 Changing the keyboard layout

Change the keyboard layout the first time you log in to the system.

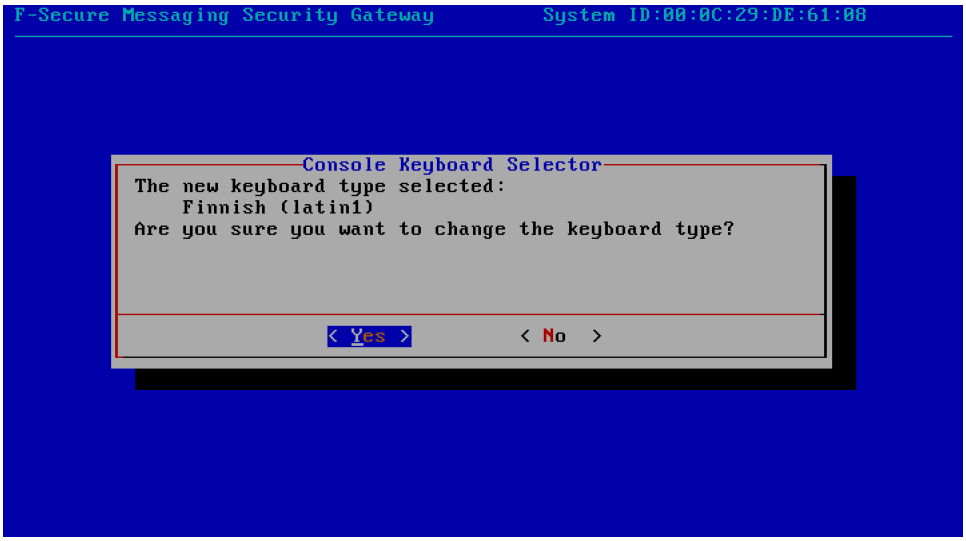
1. In the F-Secure Messaging Security Gateway menu, select **Console Keyboard Selector** and press ENTER.



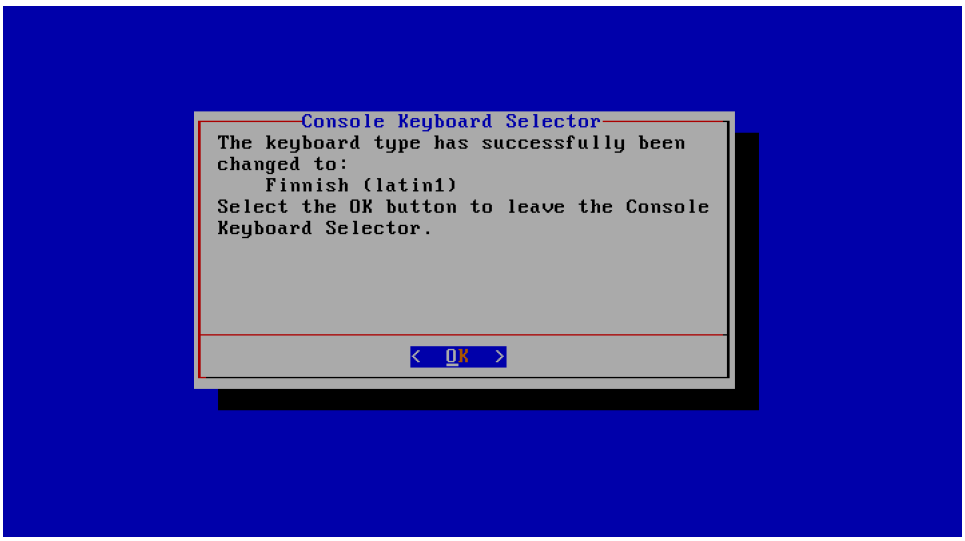
2. Select the preferred keyboard from the list and press ENTER.



3. Select **Yes** and press ENTER to confirm the change.



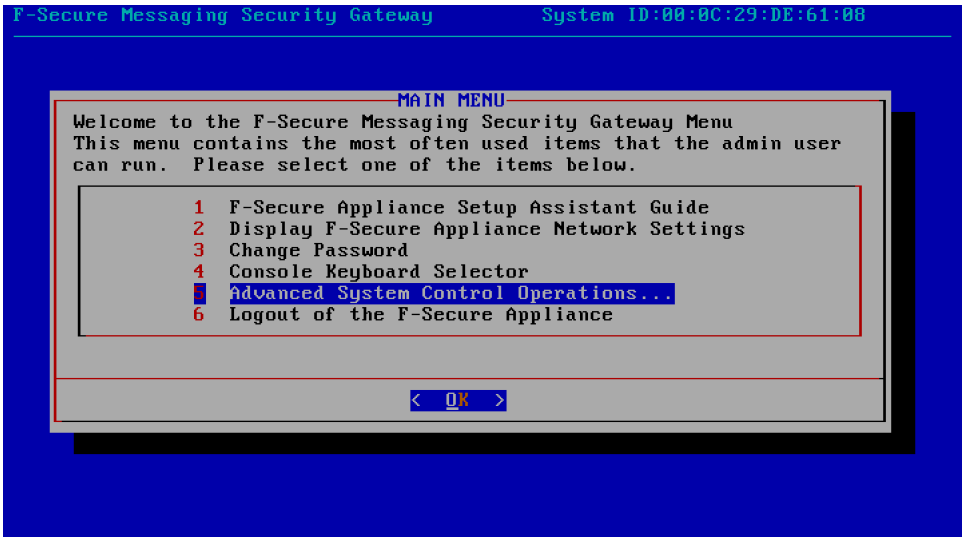
4. Press ENTER to return to the main menu.



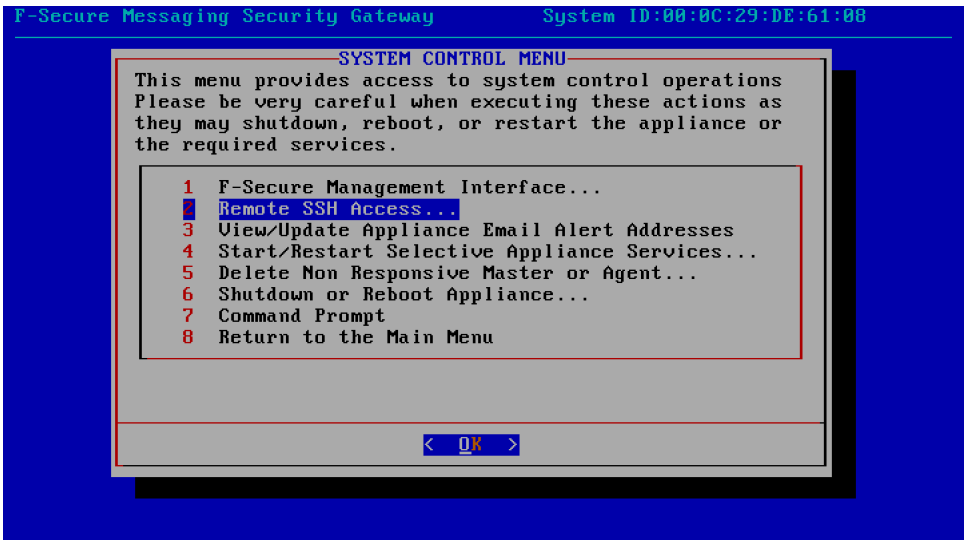
1.7 Allowing remote SSH access

You need to allow a remote SSH access to the system.

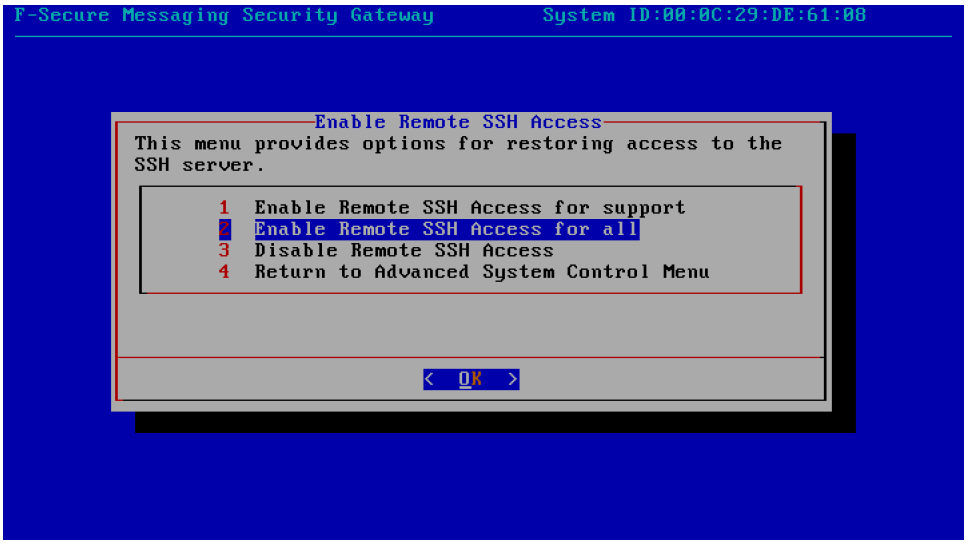
1. From the main menu, select **Advanced System Control Operations**.



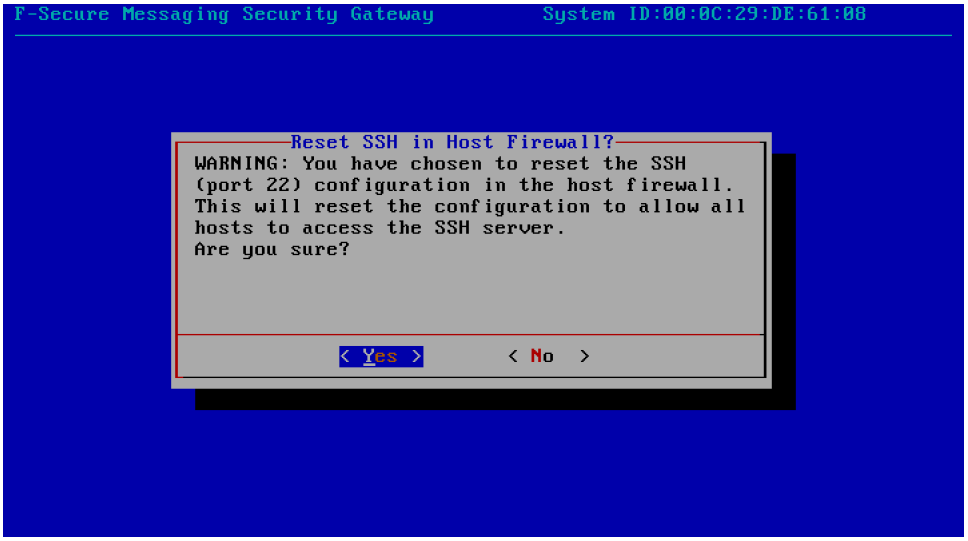
2. Select **Remote SSH Access**.



3. Select **Enable Remote SSH Access for all**.

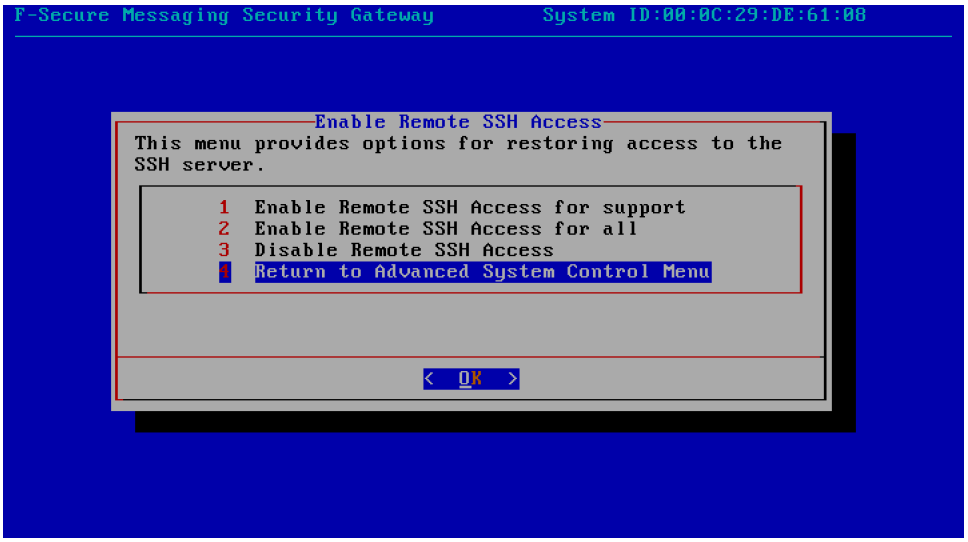


4. Select **Yes** to confirm that you want to allow the SSH access to the appliance.

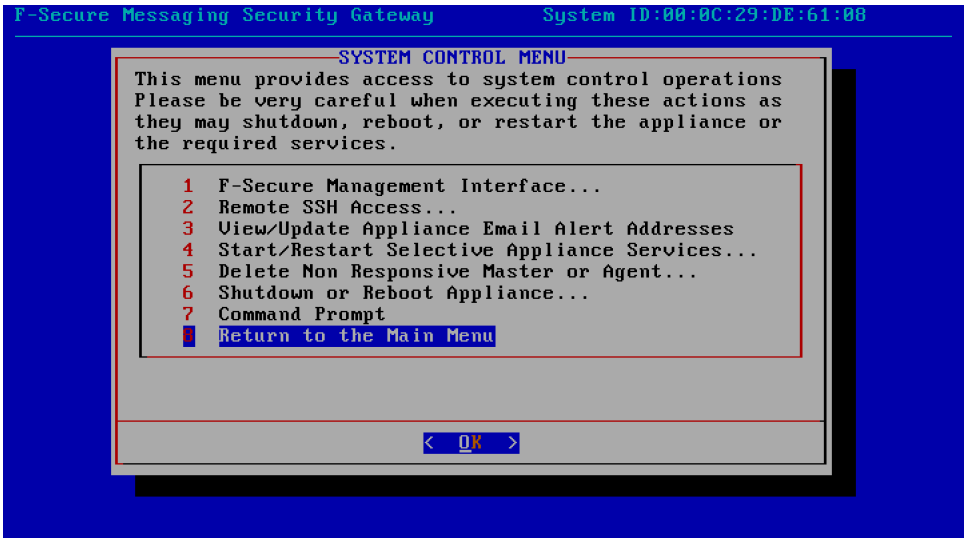


5. Press `ENTER` to return to the menu.

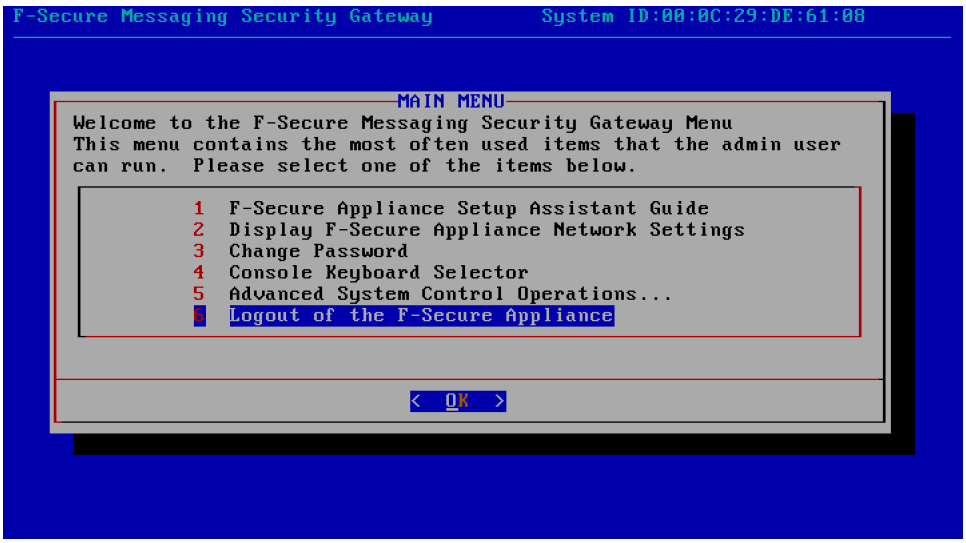
6. Select **Return to Advanced System Control Menu**.



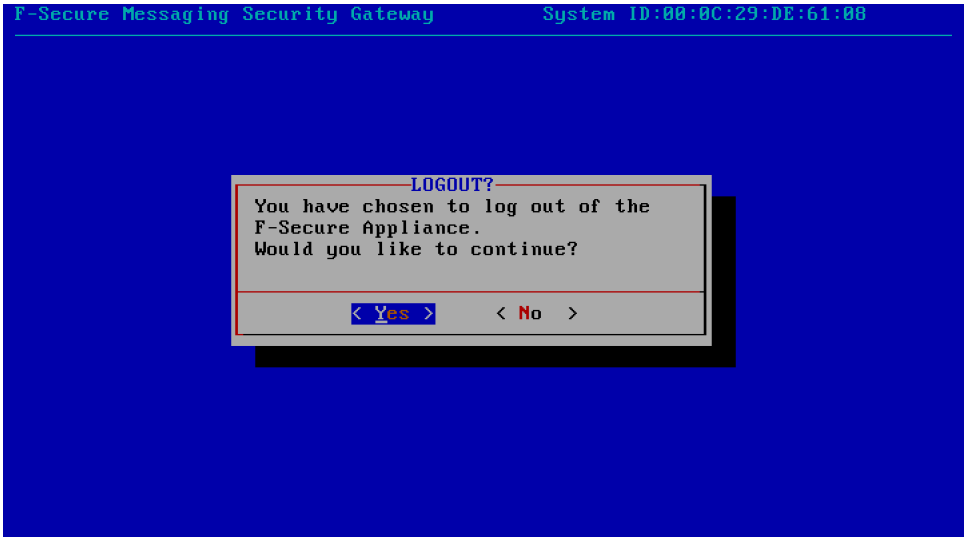
7. Select **Return to the Main Menu**.



8. Select **Logout of the F-Secure Appliance**.



9. Select **Yes** to log out.

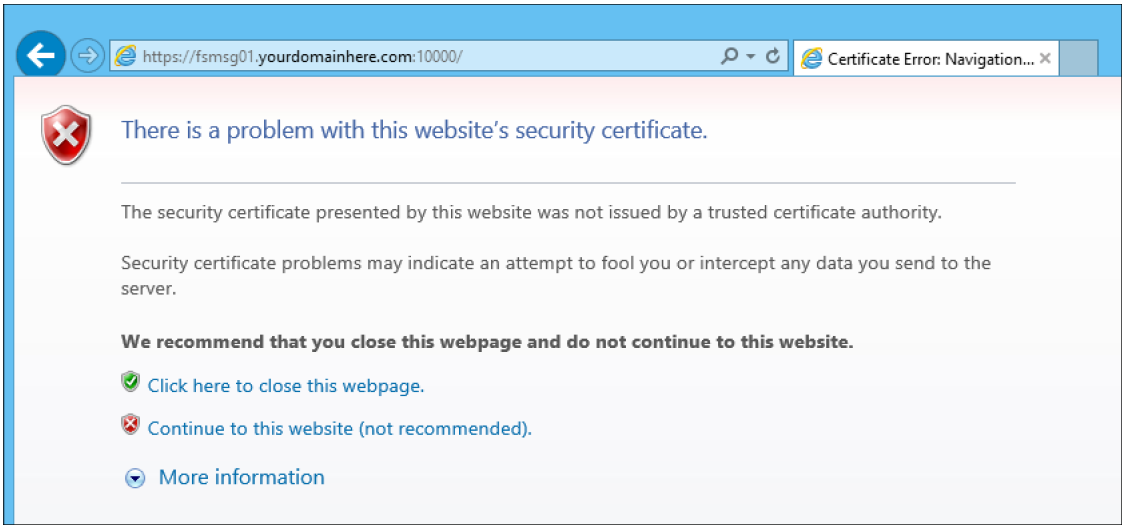


After you log out, open your browser and go to `https://[appliance_ip_address_or_dns_name]:10000` to continue setting up F-Secure Messaging Security Gateway with the web interface.

1.8 Completing the setup in the web interface

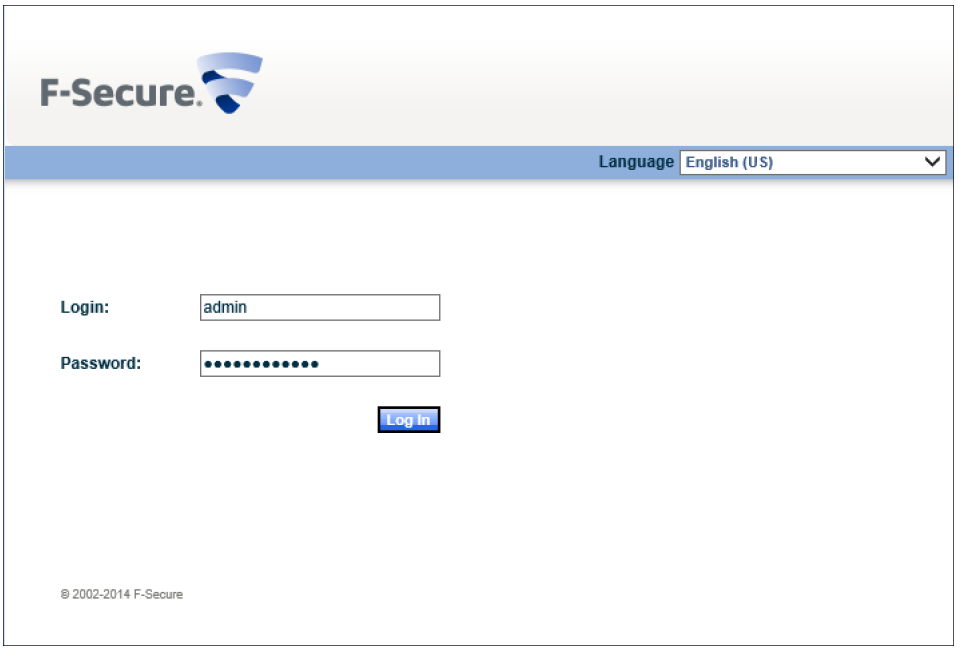
After you have completed the setup in the console, finish the setup with the web interface.

Messaging Security Gateway does not have a valid certificate installed the first time that you log in.

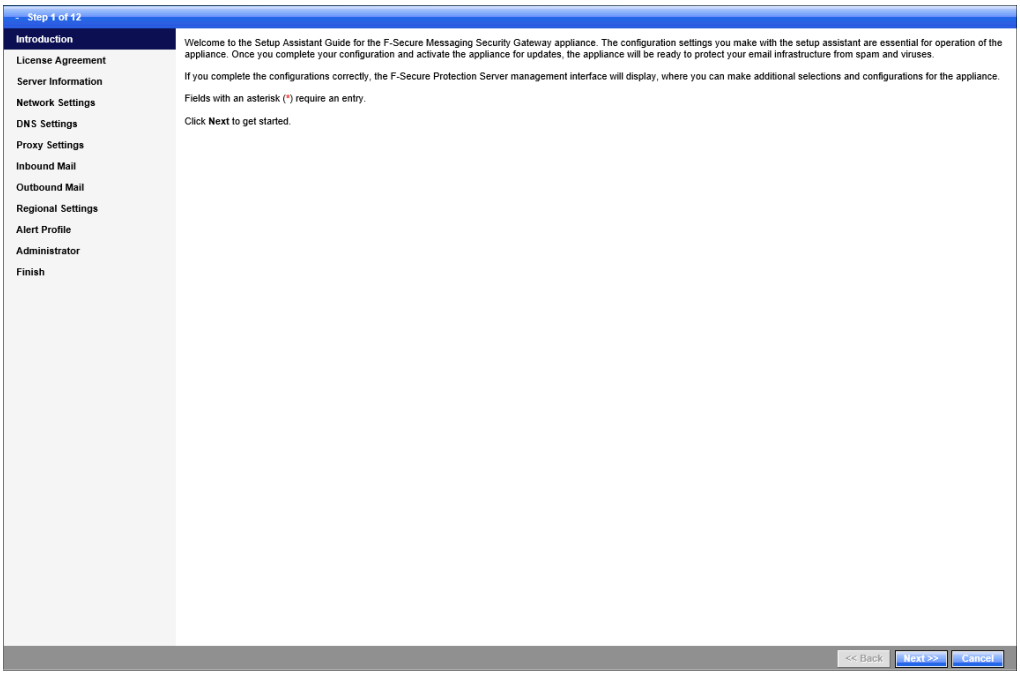


This is normal, so when you receive the certification warning message, continue to the website to complete the setup.

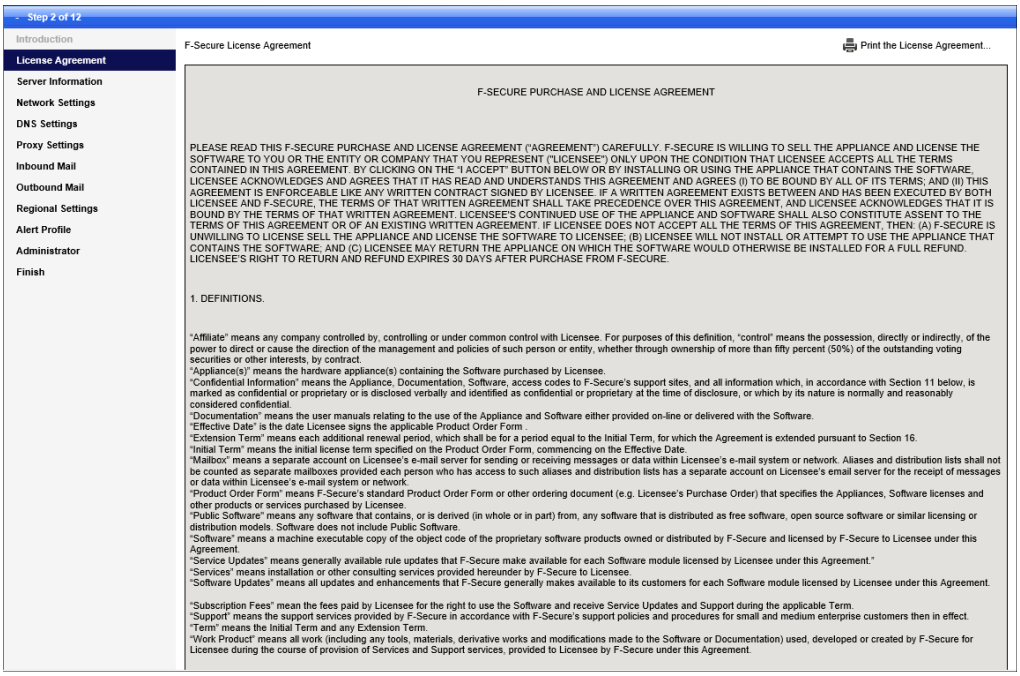
1. Log in to the web interface.



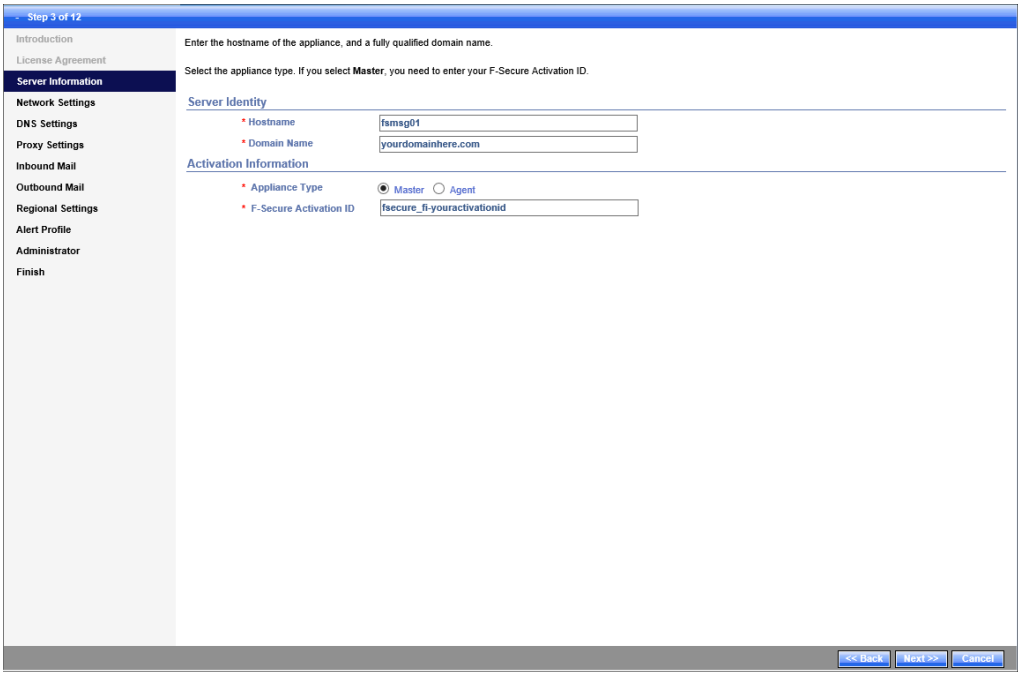
2. Read the introductory screen.



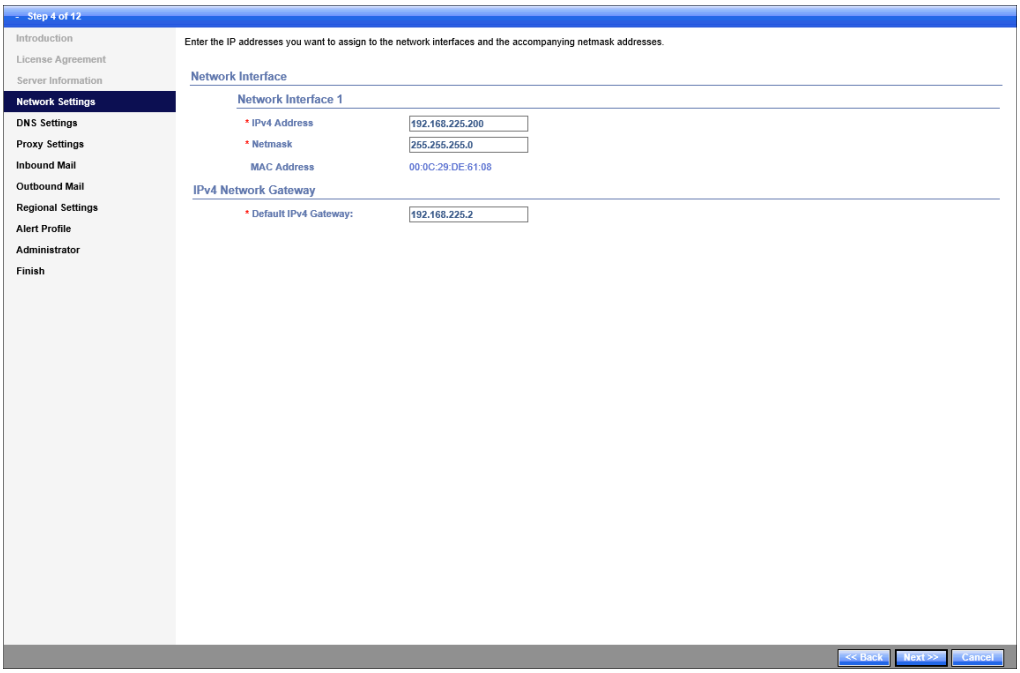
3. Read and accept the license agreement.



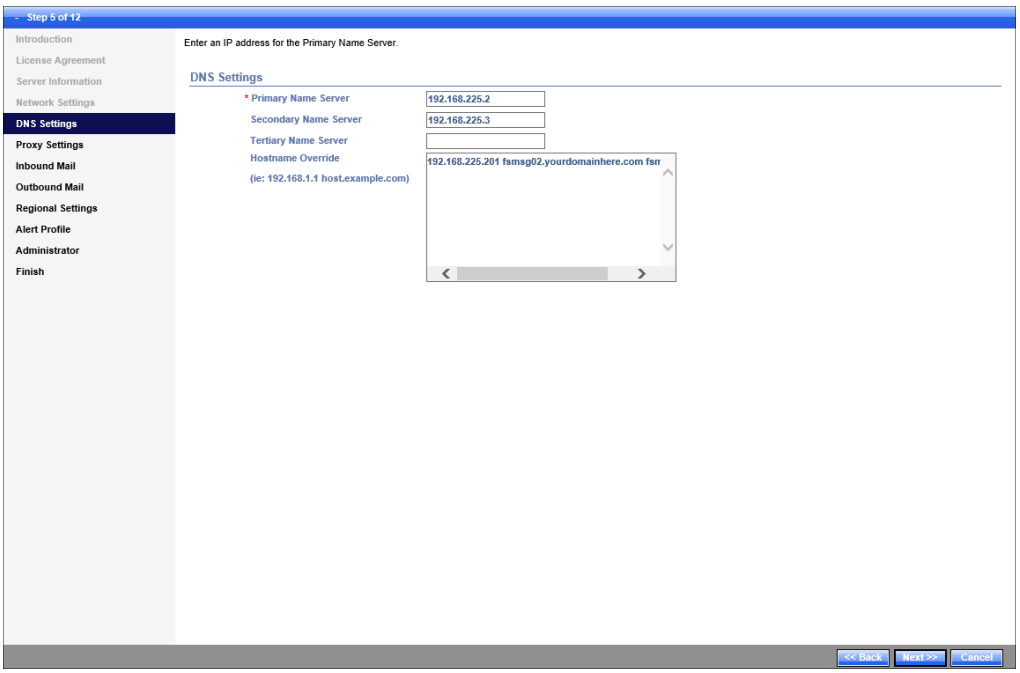
4. Check the server host name and domain settings, select **Master** as the appliance type, and enter the **Activation ID** from the license that you received from F-Secure.



5. Check the network settings.

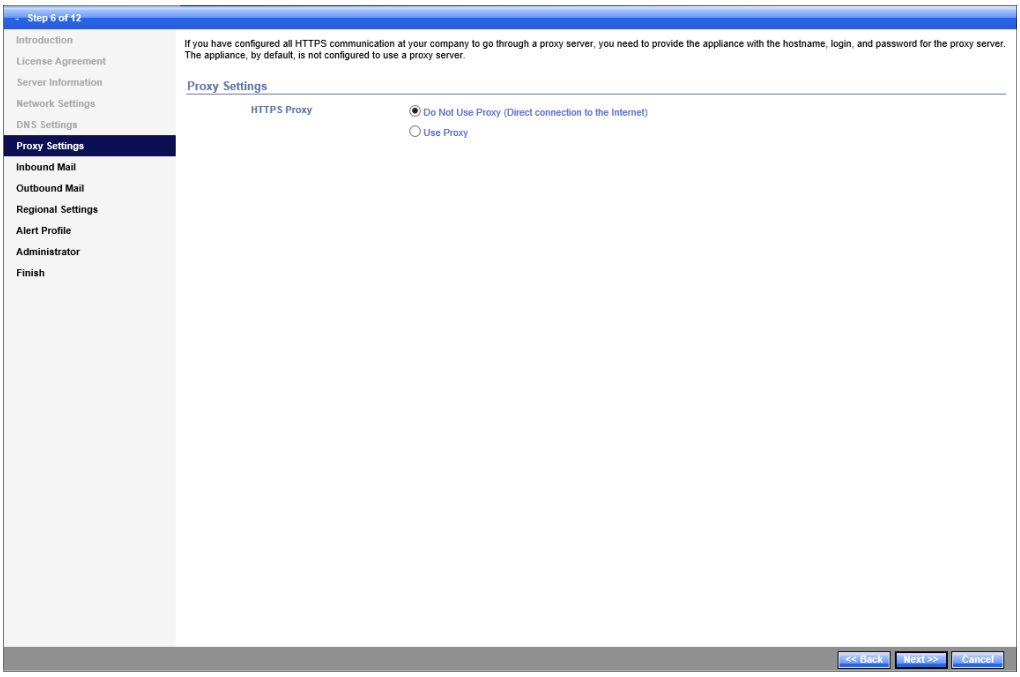


6. Check the DNS settings.

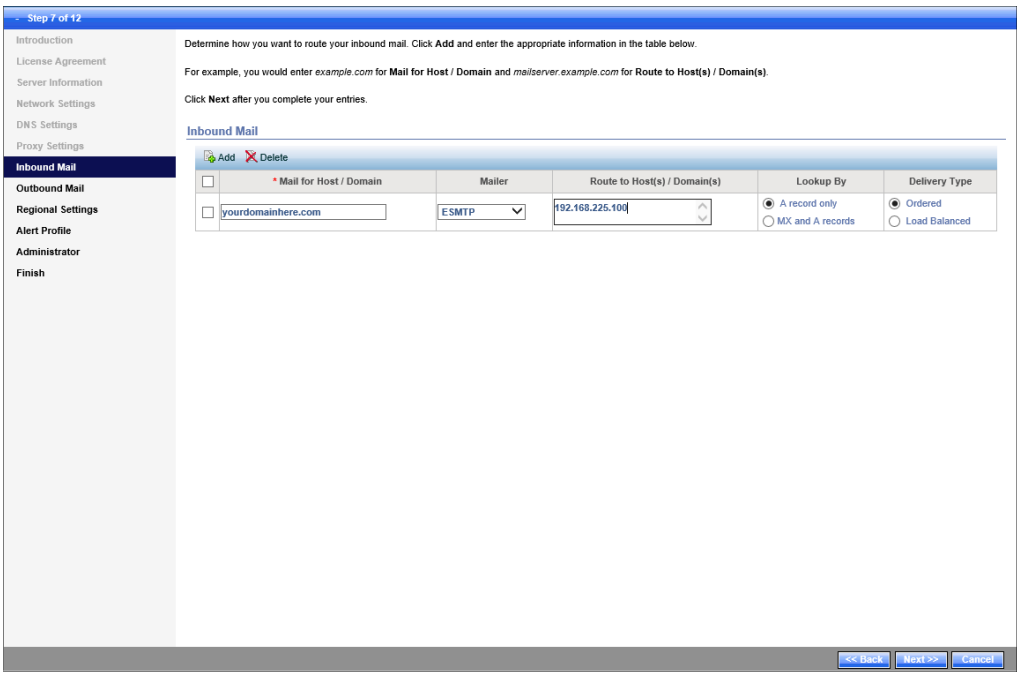


Note: Depending on how your network is set up, DNS servers may not recognize the IP addresses or host names of the F-Secure Messaging Security Gateway Servers on your network. In this case, add IP addresses and host names of each F-Secure Messaging Security Gateway Server to the **Hostname Override** text box. If you are creating a two-node cluster, make sure that you add also the host name and IP address of the agent.

7. Check the proxy settings.

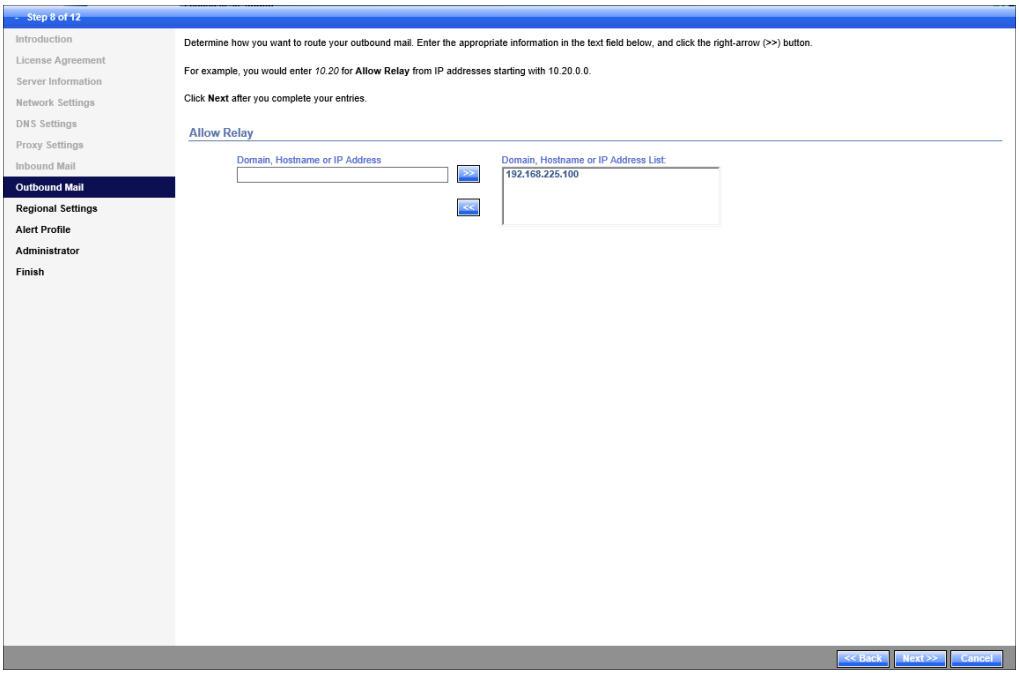


8. Enter the settings for inbound mail.



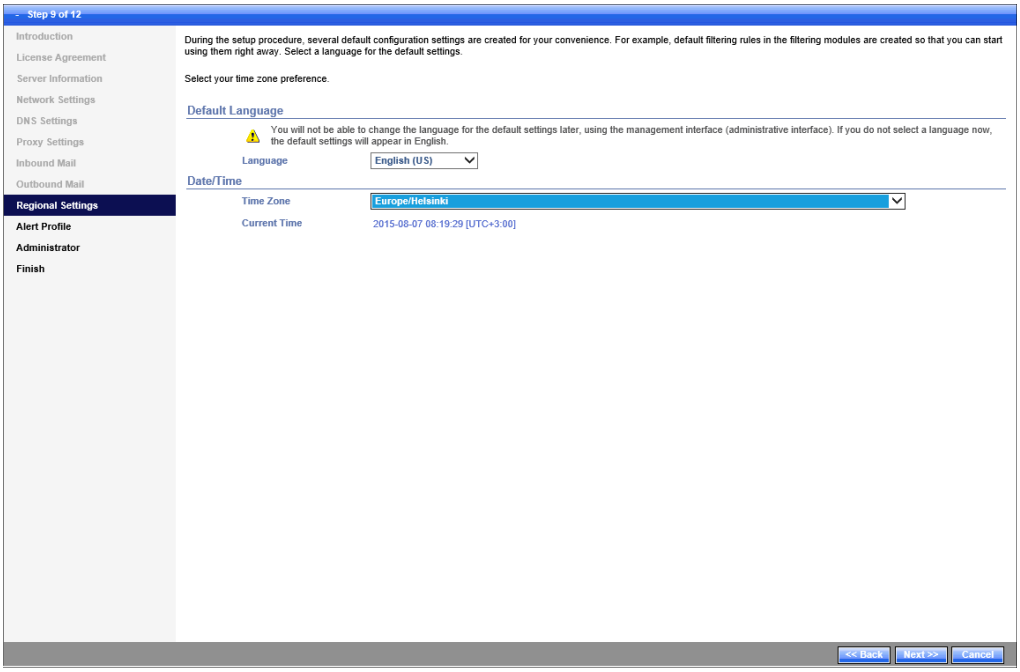
Note: Enter the domains that you use to receive e-mails, and the e-mail servers where the filtered e-mails are routed.

9. Enter the settings for outbound mail.

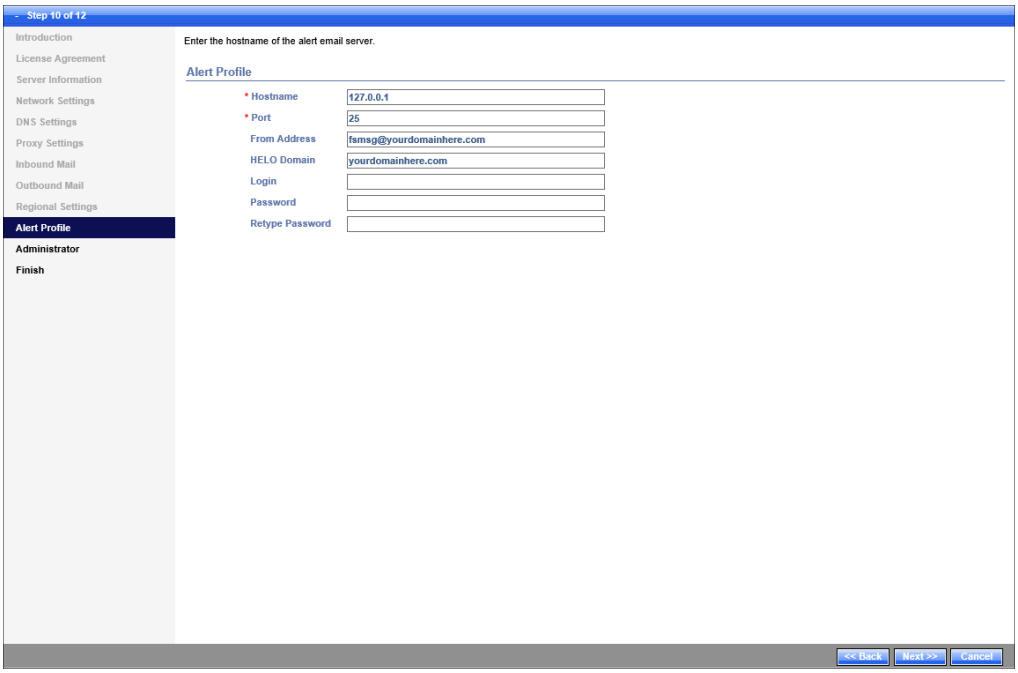


Note: Add all servers that have rights to send outbound emails to the Internet. Normally, this is your email server address.

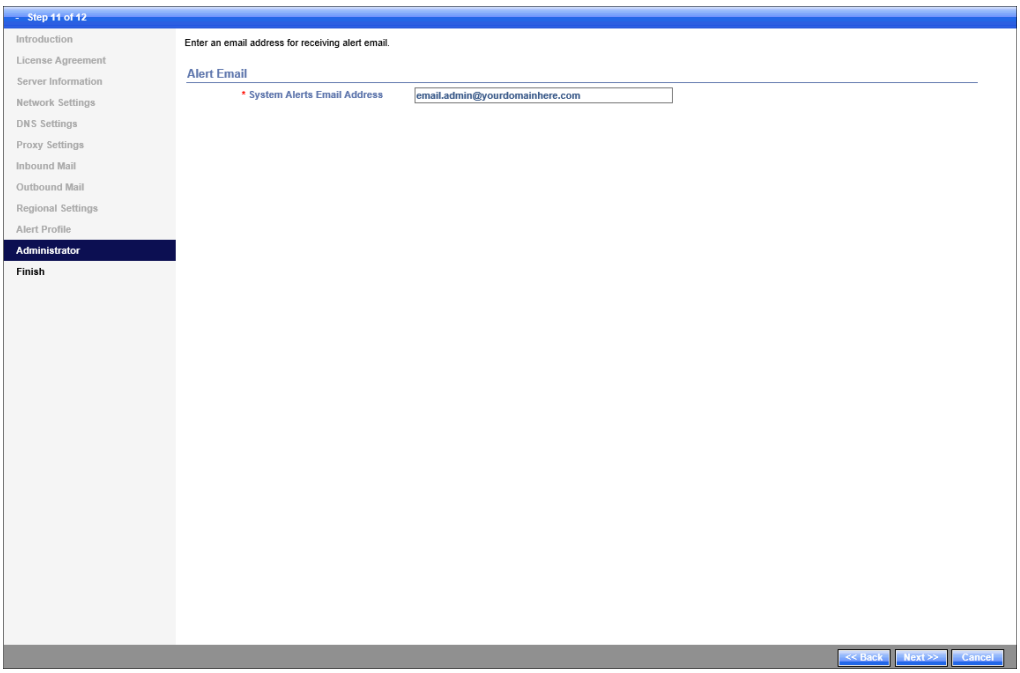
10. Select your language, date and time settings.



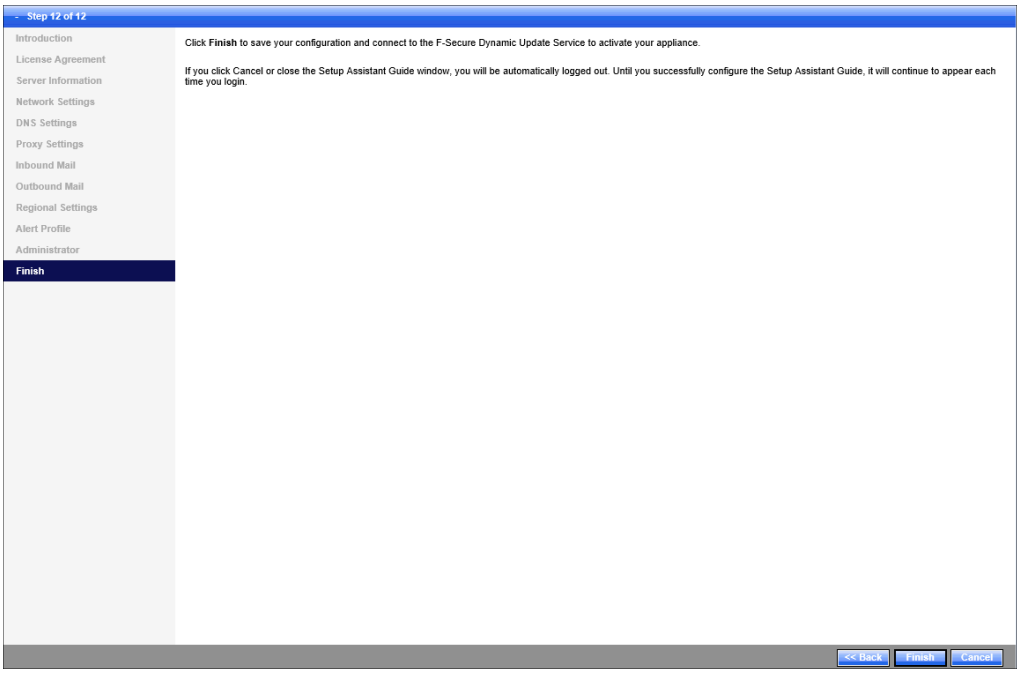
11. Create a profile for the alerts that are sent by the Messaging Security Gateway server.



12. Enter the e-mail address that receives all the alerts sent by Messaging Security Gateway.

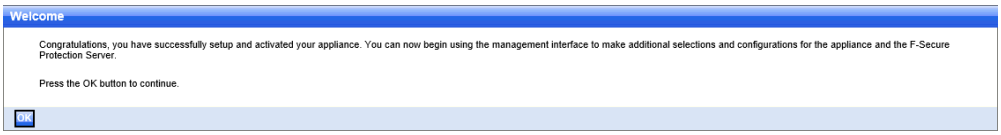


13. Click **Finish** to complete the installation.



Note: The Messaging Security Gateway server needs to access the Internet. If the server cannot access the Internet, the registration will not succeed.

14. Click **OK** to continue.



You have now completed the setup of F-Secure Messaging Security Gateway.

Updating to the latest recommended settings

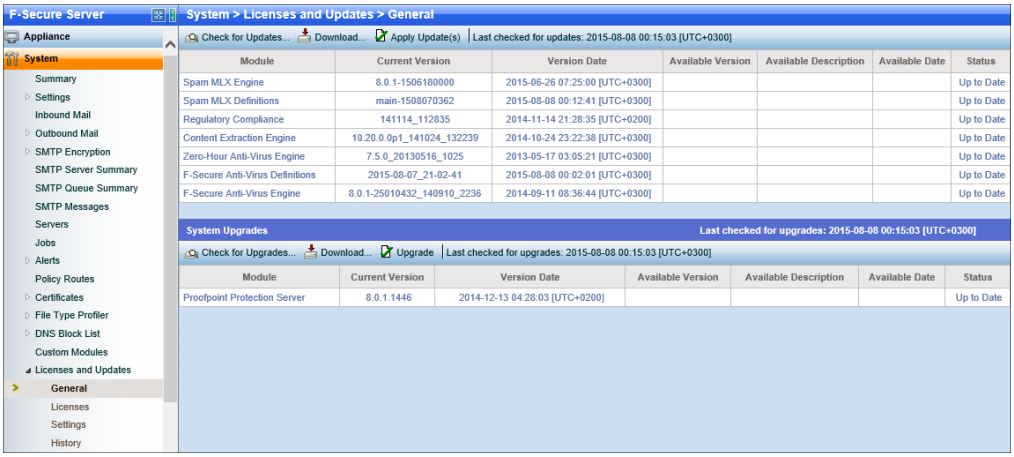
Topics:

We recommend that you use the latest recommended settings with the product.

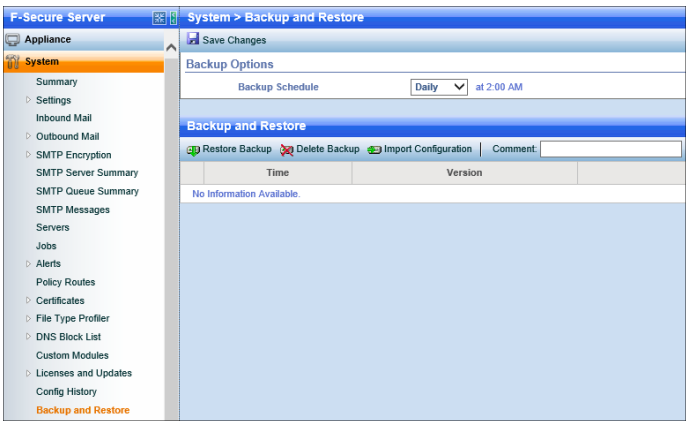
2.1 Importing settings

Follow these instructions to import the configuration.

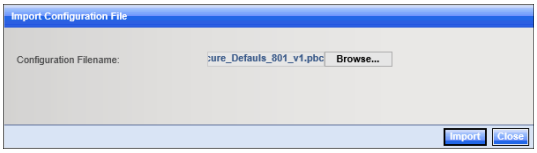
1. Go to **System** > **Licenses and Updates** > **General** and make sure that all patches are installed. The status should be *Up to date* in all lines.



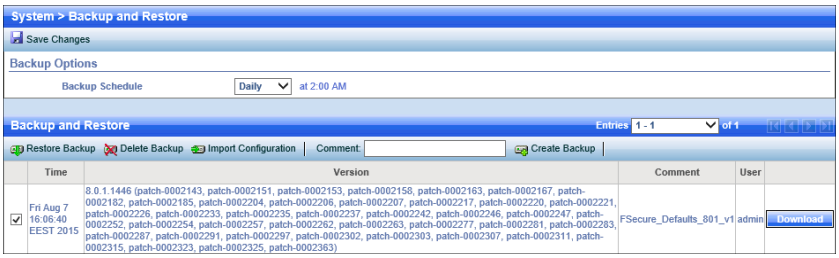
2. Go to **System** > **Backup and Restore** and download the configuration backup from *https://www.f-secure.com/en/web/business_global/downloads/messaging-security-gateway/latest*.



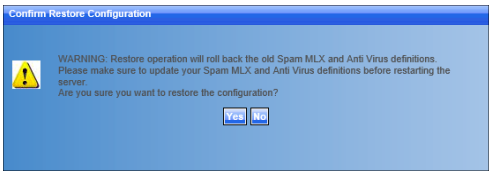
3. Browse to your downloaded backup file.



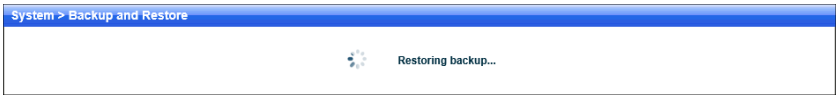
4. Select the imported backup file and click **Restore backup**.



5. Click **Yes**.



6. Wait while the backup is restored.

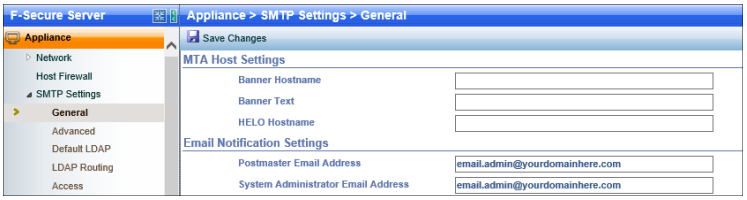


7. Refresh your browser after the backup has been restored.

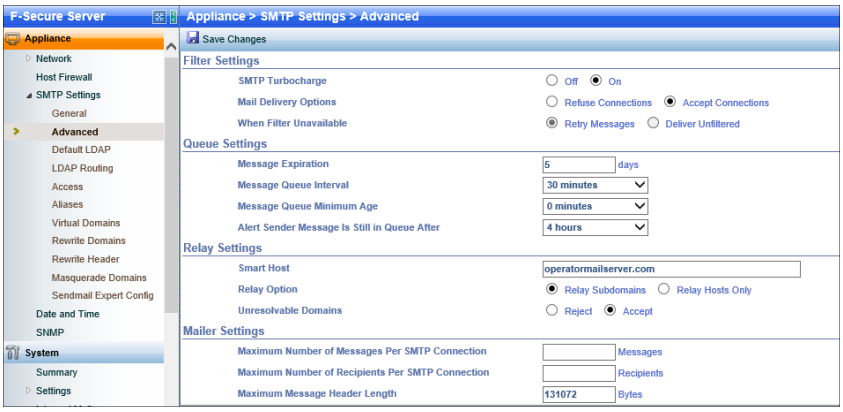
2.2 Configuring the environment settings

Configure your environment settings.

1. Go to **Appliance** > **SMTP Settings** > **General** to configure the postmaster email address and the system administrator email address.

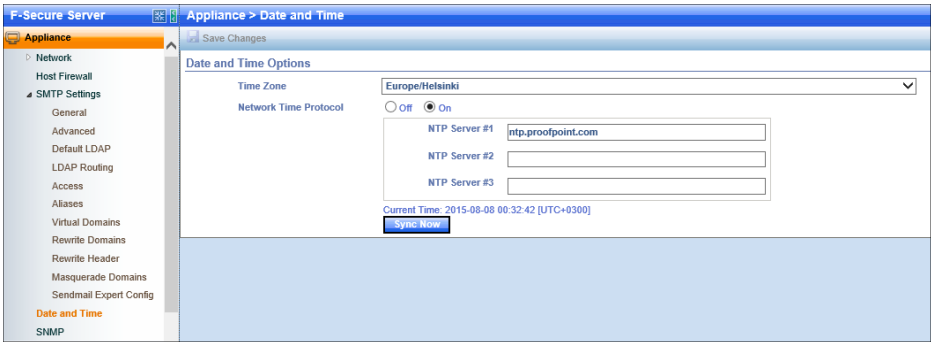


2. If you use an external email relay for outbound emails, for example an ISP, go to **Appliance** > **SMTP Settings** > **Advanced** and click **Add Smart host**.

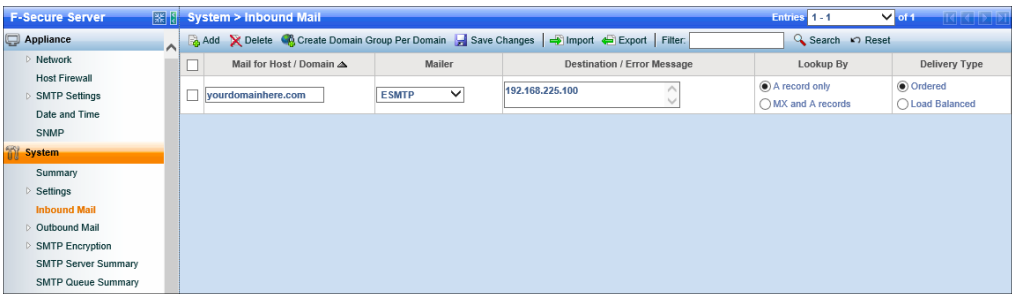


3. Go to **Appliance** > **Date and Time** to add NTP server if want keep date and time updated automatically.

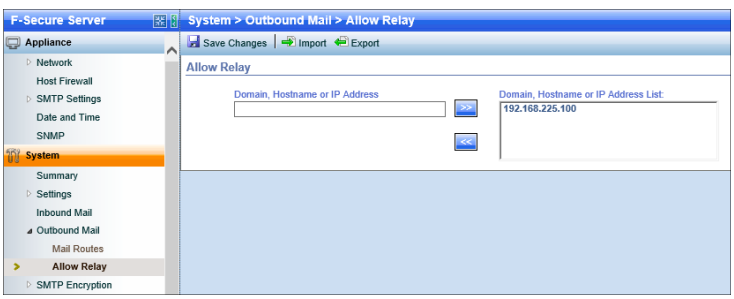
Tip: Use `ntp.proofpoint.com` if you do not have an ntp server that you use already.



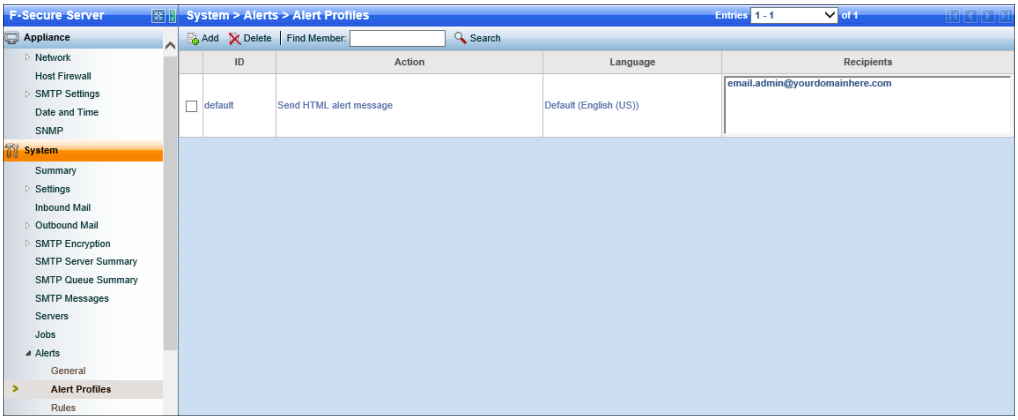
4. Go to **System** > **Inbound mail** and enter the domains that you are use to receive emails, and email servers where filtered emails are routed.



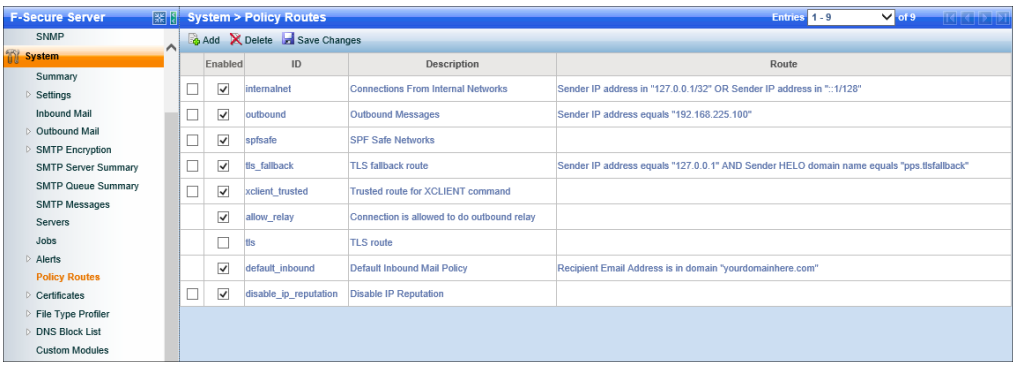
5. Go to **System** > **Outbound Mail** > **Allow Relay** to add all servers that have rights to send outbound emails to the Internet. Normally, this is your email server address.



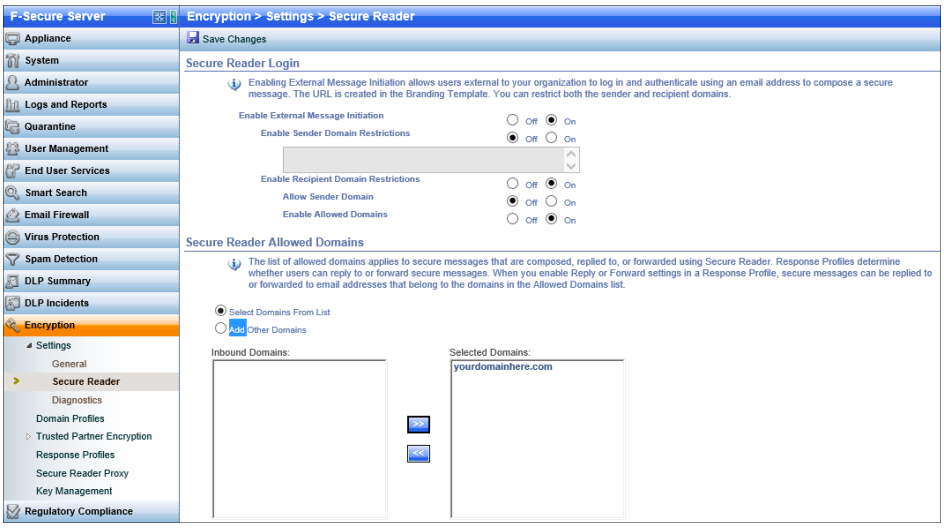
6. Go to **System** > **Alerts** > **Alert Profiles** to add the email address where the product can send alerts.



7. Go to **System** > **Policy Routes** to add all those IP addresses that you added to **System** > **Outboud Mail** > **Allow Relay** to the outbound policy route.

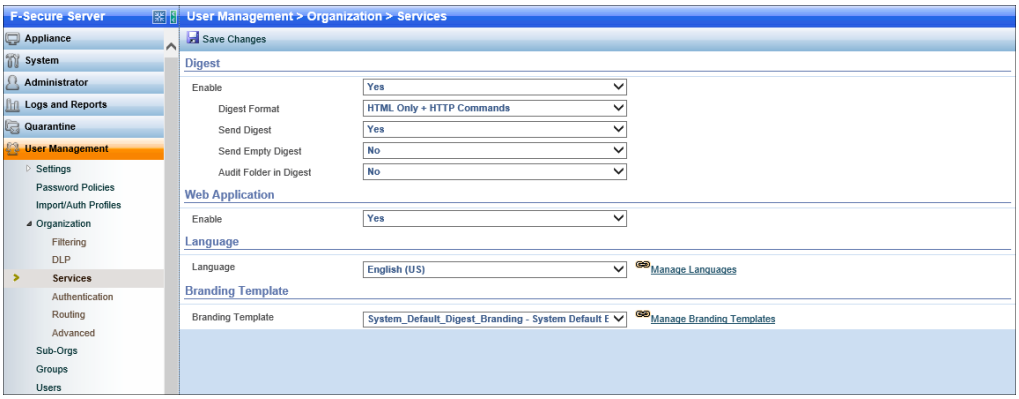


8. If you have a *Protection Bundle* license and you use email encryption, change following settings:
   a) Go to **Encryption** > **Settings** > **Secure Reader**.
   b) Turn on **Enable External Message Initiation**.
   c) Turn on **Enable Recipient Domain Restrictions**.
   d) Turn on **Enable Allowed Domains**.
   e) Move your inbound domains to Selected domains list.

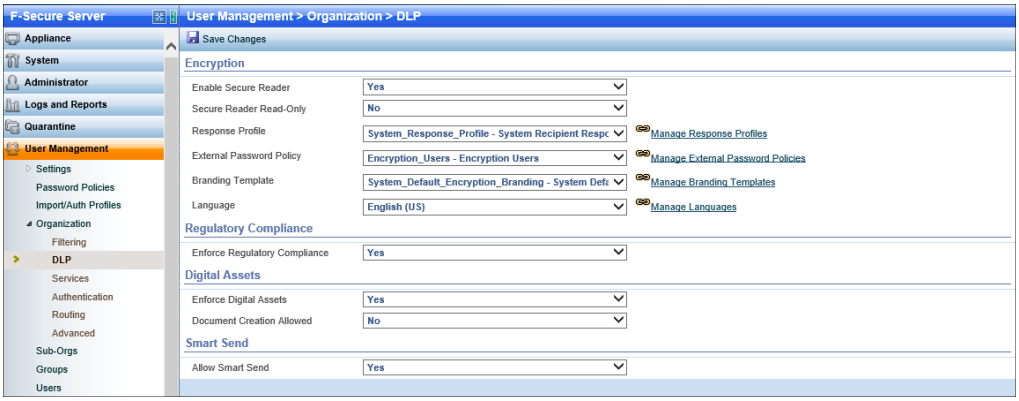


9. Choose the language that you want to use in email encryption (DLP) and Digest.

Digest: Go to **User Management** > **Organization** > **Services** and choose the language.

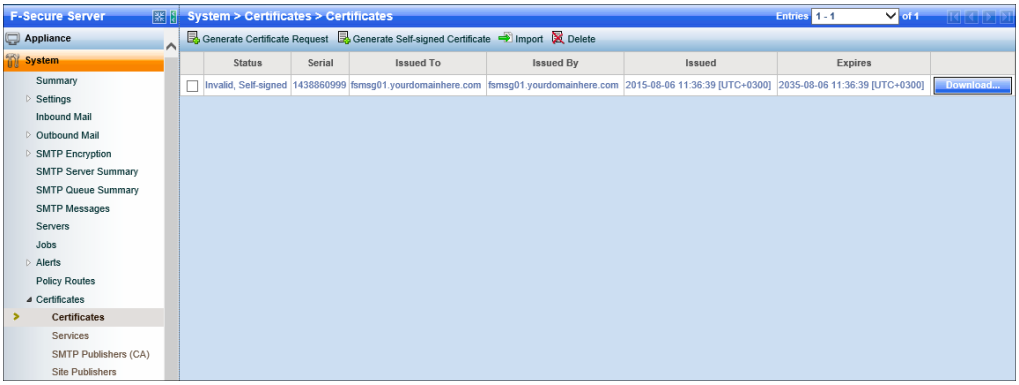


Encryption: Go to **User Management** > **Organization** > **DLP** and choose the language.

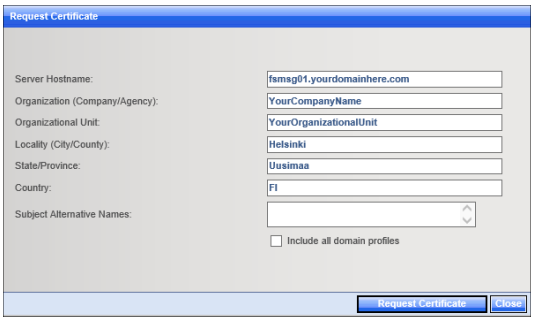


10. Admin and all end user connections are encrypted with HTTPS. We recommend that you use a signed SSL certificate and that you use wildcard or SAN certificates, because you need to use the same SSL certificate with multiple services (admin, enduser services, and encryption).

a) If you need to create a certificate request, go to **System** > **Certificates** > **Certificates** and click **Generate Certificate Request**.



b) Add your server and company details to the certificate request.

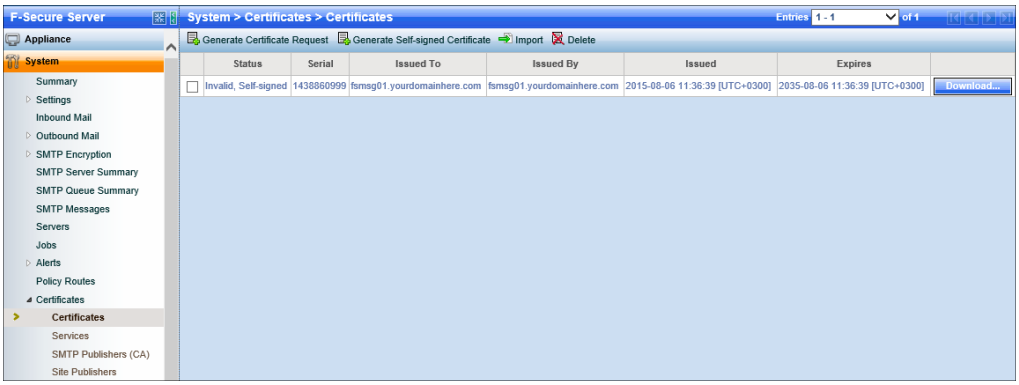


c) Send your certificate request to your SSL certificate provider.

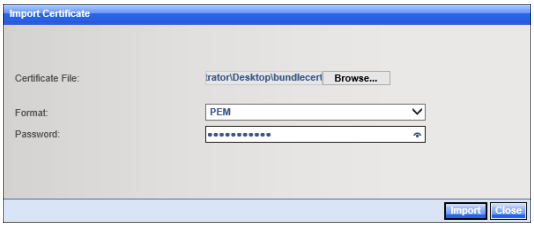
d) After you have received the signed certificate, click **Import** to import it to Messaging Security Gateway.

Add all needed certificates in one file. The correct order is:

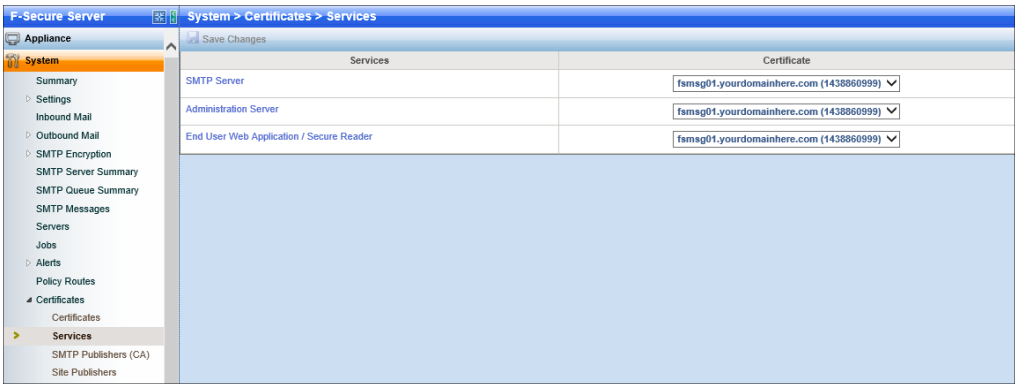
1. Private Key (if you did not create a certificate request)
2. Server Certificate
3. Intermediate Certificates
4. Root Certificate (optional)



e) Browse to your certificate file and add a password if you are importing private key as well, and click **Import**.



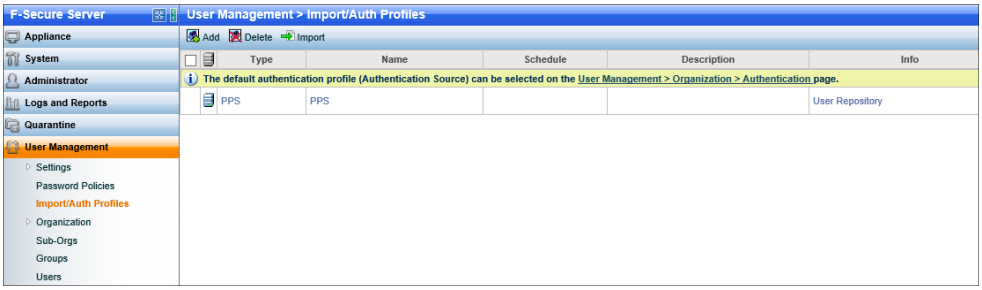
f) Go to **System** > **Certificates** > **Services** to change your certificate to all services. Click **Save** to confirm the new settings.



11. The service needs to know your company email addresses.

You can use several different methods to import users (manually, file, or LDAP). The following steps instruct how to use LDAP, which is the method that we recommend.

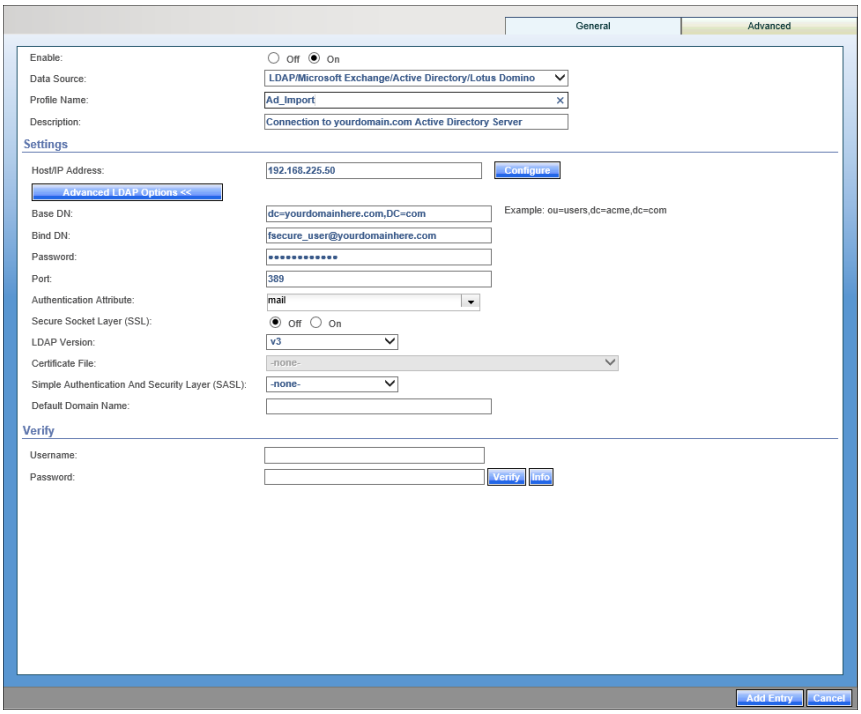
a) Go to **User Management** > **Import/Auth Profiles** and click **Add**.



b) In the **Import** window, click **Advanced LDAP Options**.

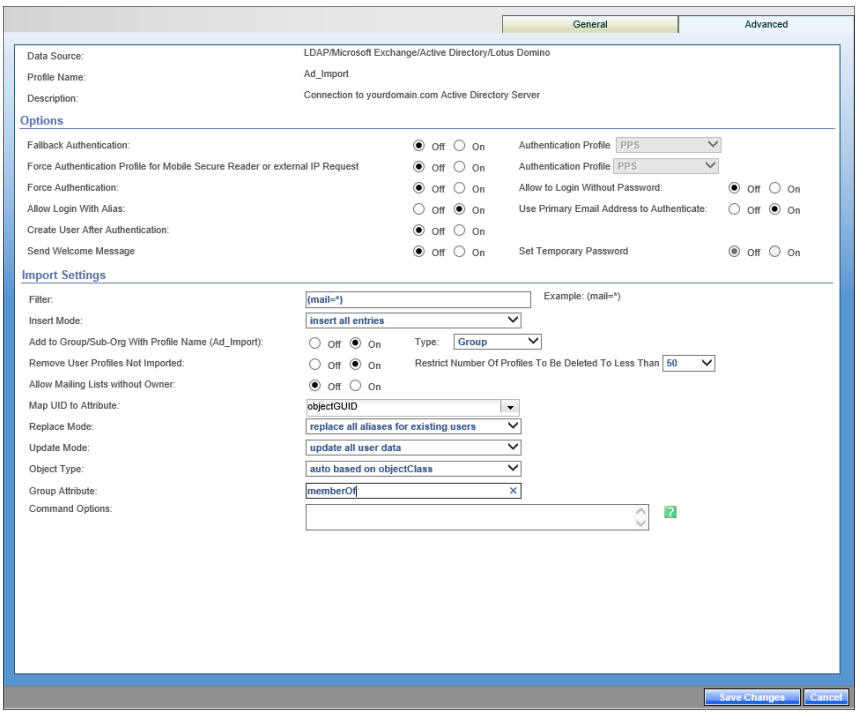
Fill in the following information:

- **Data Source**: Defines the location where the user data is imported. The LDAP query is sent to this location.
- **Profile Name**: ID of the import profile.
- **Host/IP Address**: Host name or IP address of the LDAP (Active Directory) server.
- **Base DN**: A distinguishable name for the AD scope.
- **Bind DN**: The user whose (read) credentials are used to access the AD.
- **Password**: Bind DN user's password.

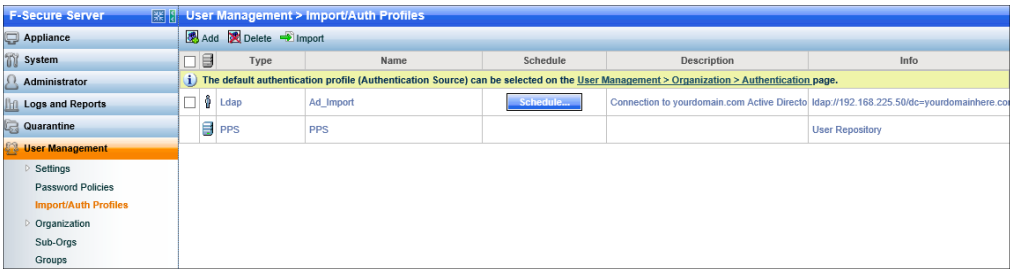


c) Go to the **Advanced** tab.

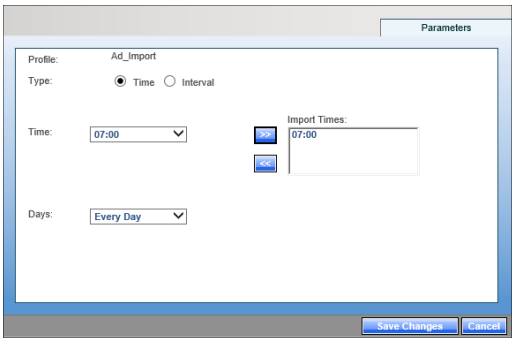
- **Allow Mailing lists without Owner**: Choose *Off* if you use *Managed By* with all email enabled groups in Active Directory. Otherwise, choose *Yes*.
- **Map UID to Attribute**: Use objectGUID if your LDAP server is Active Directory. Otherwise, use your unique attribute in your LDAP server.
- **Group Attribute**: memberOf



d) Click **Schedule** to schedule your LDAP import profile.



e) Add how often you want to run LDAP import.



Adding agents to the cluster

Topics:

The following steps are optional and needed only if you want to add another agent to your current environment.

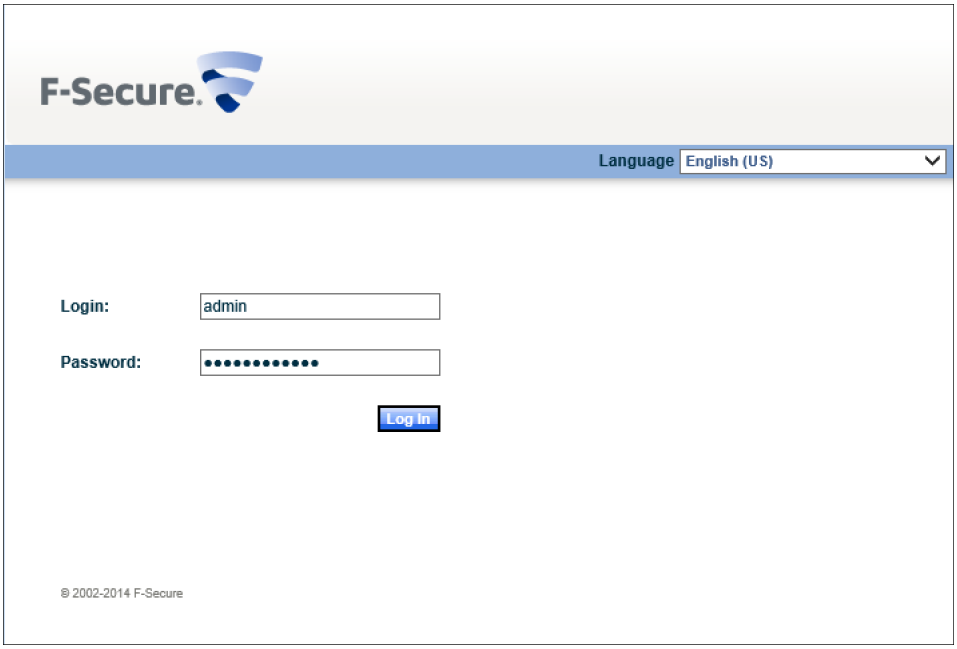
A.1 Adding a new agent to the cluster

You need to have a second installation of Messaging Security Gateway to add an agent to your current environment.

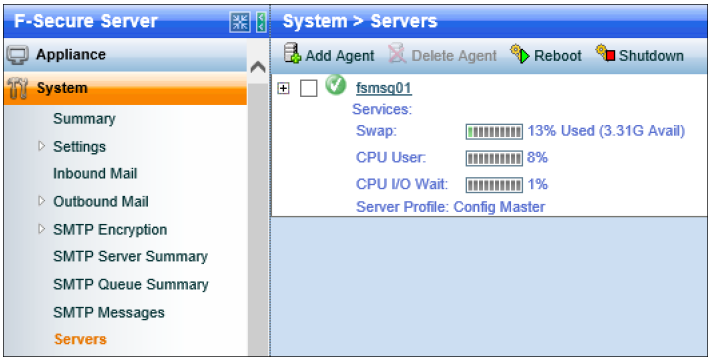
To get a second installation of Messaging Security Gateway, repeat the installation steps. You do not need to complete the setup in the web interface.

1. Log in to the web interface of the master appliance.

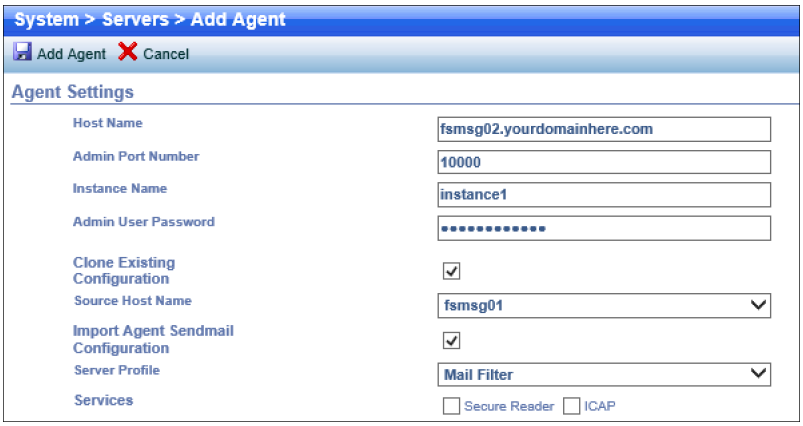
   At this stage, the keyboard input language is English. When choosing the new password, use those characters that you can access after you change the keyboard layout.



2. Go to **System** > **Servers** and click **Add Agent**.

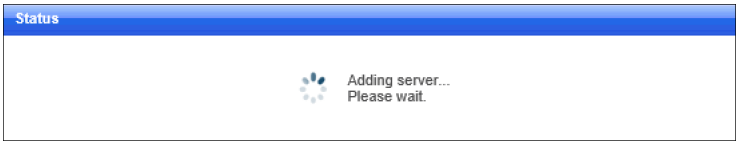


3. Fill in the agent information and click **Add Agent**.



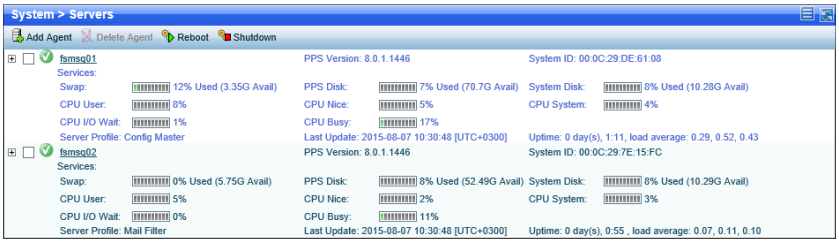
Note: **Admin User Password** is the admin password for the agent.

Note: If you are using email encryption, select **Secure Reader**.



Adding the server may take several minutes.

4. The agent is now added to the cluster.
5. After the agent has been added to the cluster successfully, go to **System** > **Summary** and wait until the agent status turns green. This can take a while.



6. Repeat the same steps for the agent to configure the environment and click **Change Certificate to all services** in **System** > **Certificates** > **Services**.