

# Enabling HTTPS (SSL)

Follow the steps below in order to enable HTTPS (SSL) for the ServerGenius administration website and agents endpoint. As a result, administrators and machine agents will be able to access ServerGenius using the configured HTTPS port.

Please note that enabling SSL support for ServerGenius does not prevent administrators and machine agents from accessing ServerGenius using the current HTTP port configured (default is 7777 for administration website). Therefore, **there is no need to reconfigure machines already monitored by ServerGenius!**

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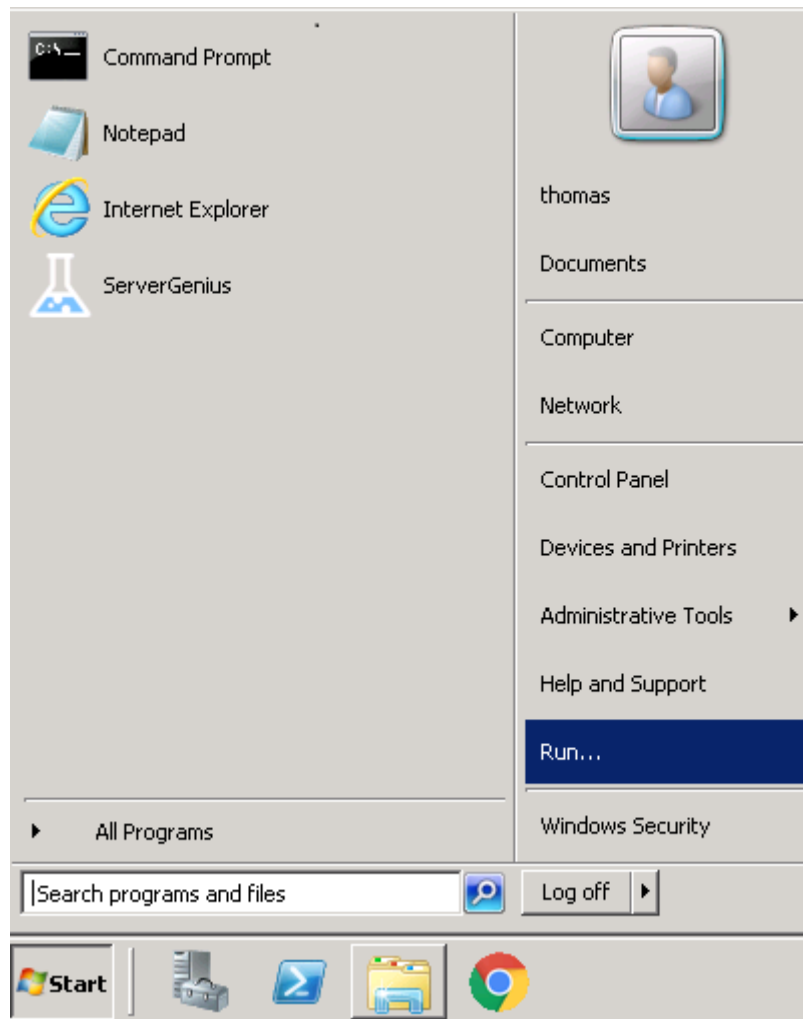
## Summary

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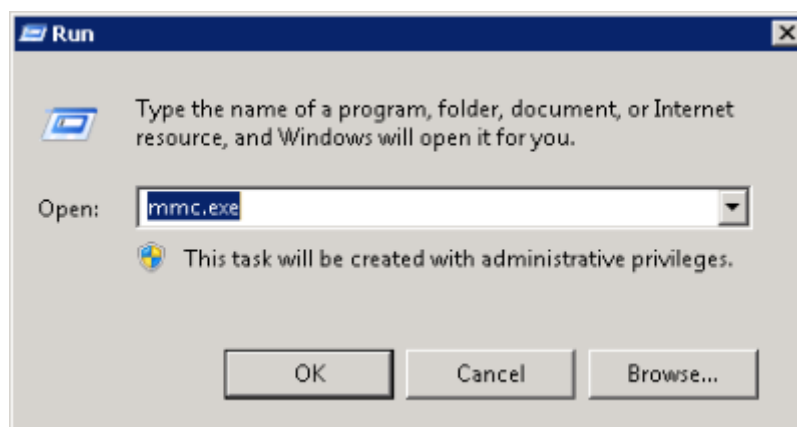
## Requirements

- Please make sure you have administrator privileges on the server where ServerGenius is installed.
  - Enabling SSL support for ServerGenius requires a valid certificate, with the following details:
    - The certificate's **Issued To** or **Alternate Subject Name** should specify the ServerGenius website's domain name (i.e. servergenius.mycompany.com) or the server name (i.e. COMP-SRVR01)
    - The certificate's purpose should be **Server authentication**
    - The certificate must contain the **private key**
  - If the certificate is not validated by a trusted certificate authority (CA) already installed in ServerGenius server, then the CA certificate is also required. Usually, the CA certificate is required when the certificate is a self generated certificate.
  - The password for the private key of the certificate and the CA certificate, if applicable, are required for the following steps.
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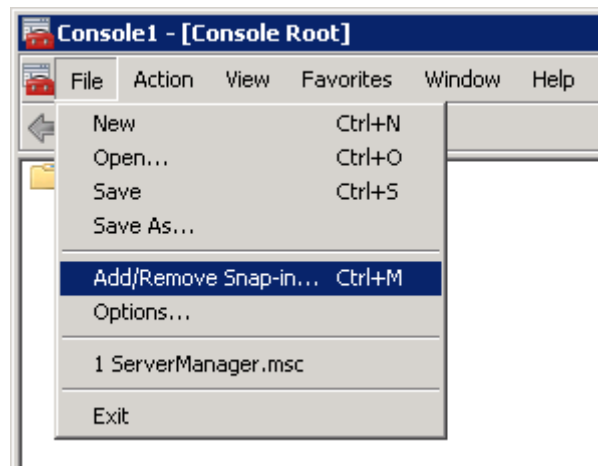
## Open Certificate Manager



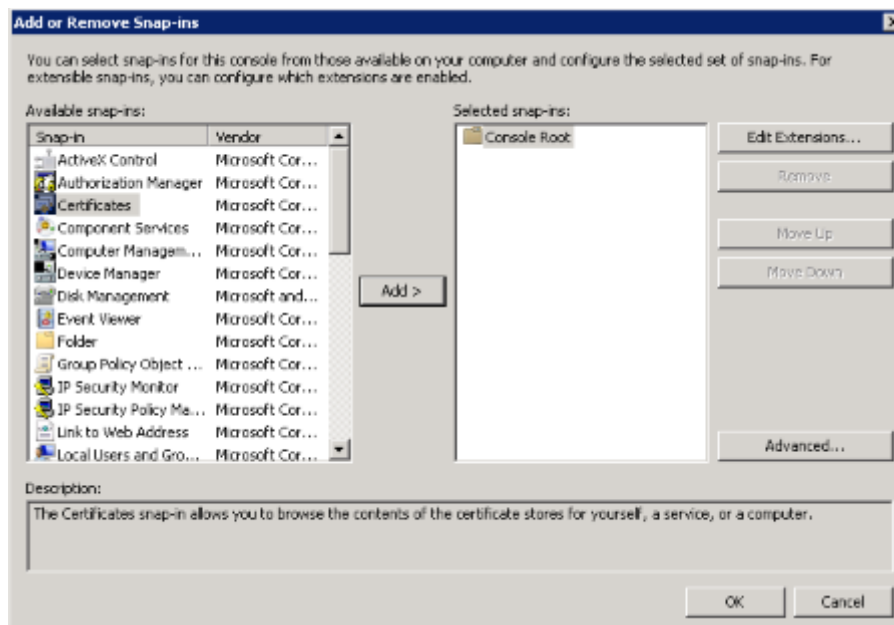
Log in as a local administrator on the server where ServerGenius is installed. Then, from the Windows task bar, click on **Start**. Then, click on **Run....**



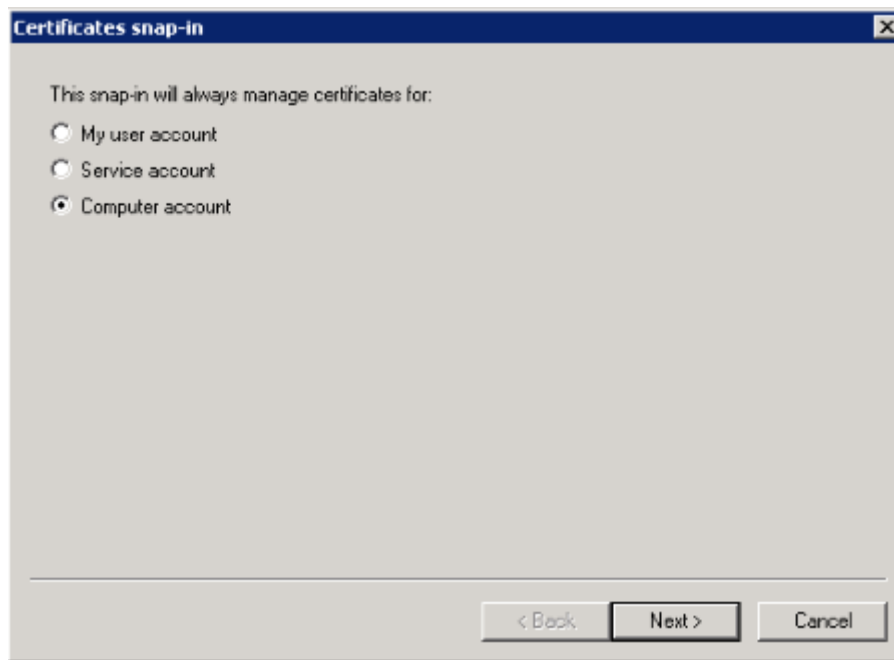
A window opens and prompts for a program executable name. Type **mmc.exe** and click **OK**.



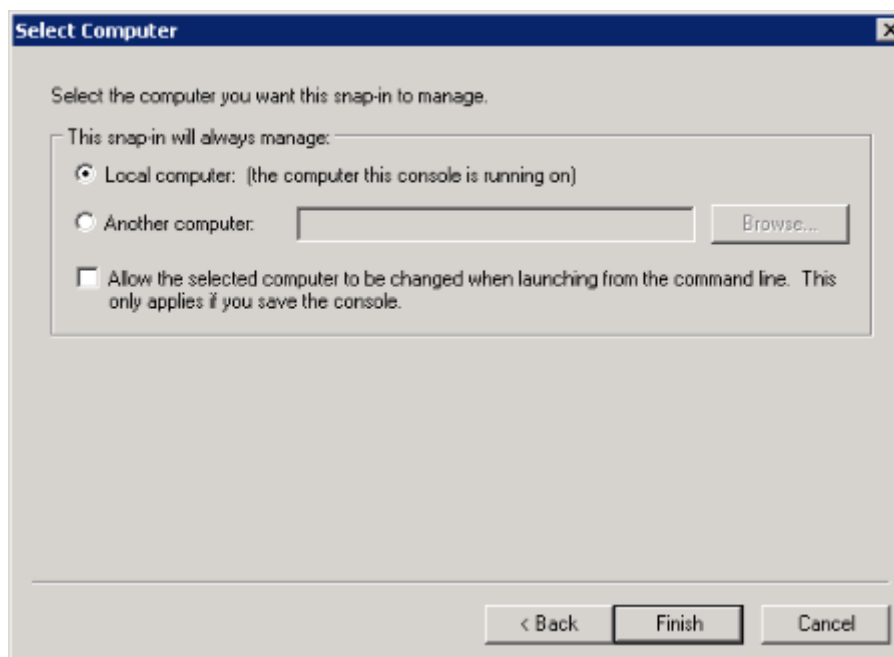
The Microsoft Management Console (MMC) opens. Click on **File** and then click on **Add/Remove Snap-in** to choose the feature to manage.



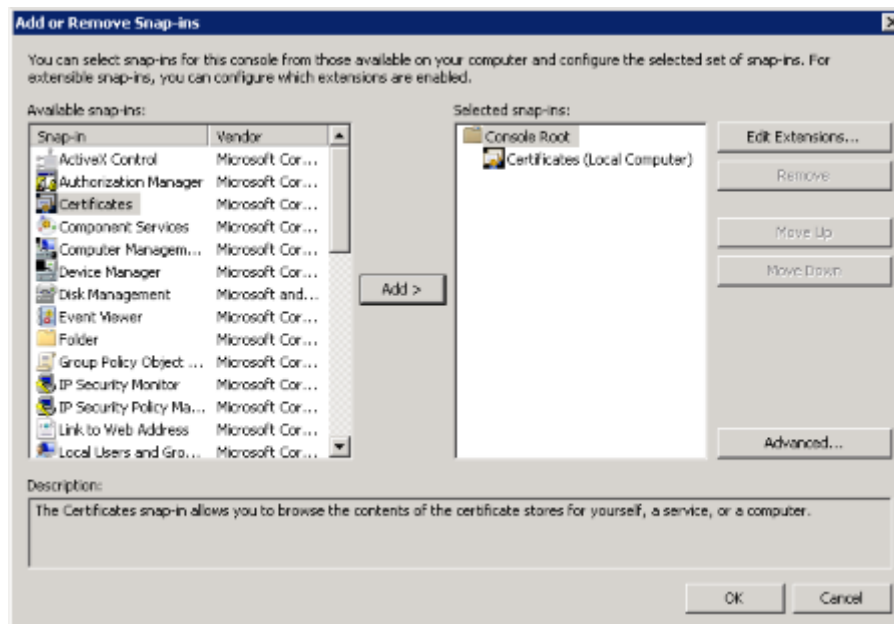
In the list of Snap-in, choose **Certificates** and then click on **Add**. The snap-in is added to the **Selected snaps-ins** column. Then, click **OK**.



In the dialog that appears, select **Computer Account**, then click **Next**.

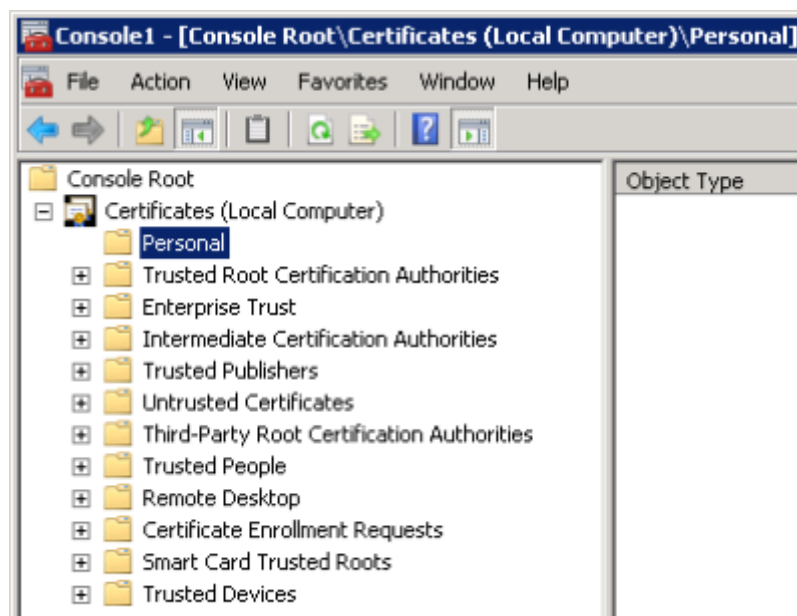


Choose **Local Computer** and click **Finish**.

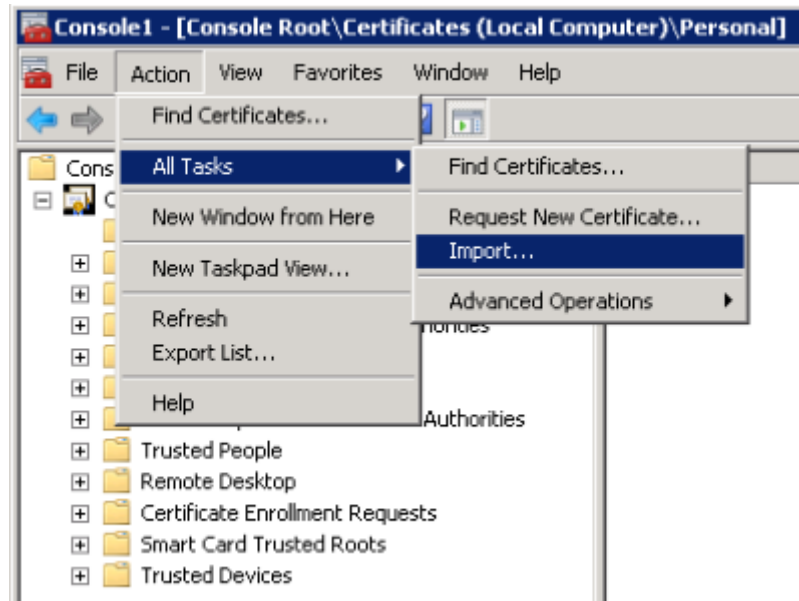


Click **OK** to proceed with importing the certificates.

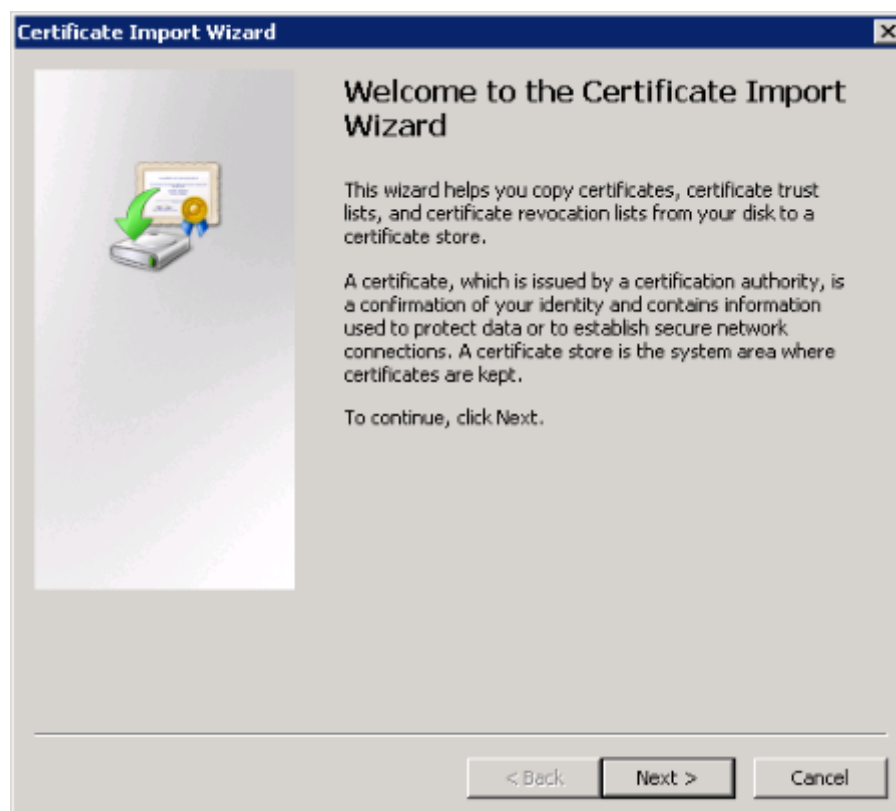
## Import certificates



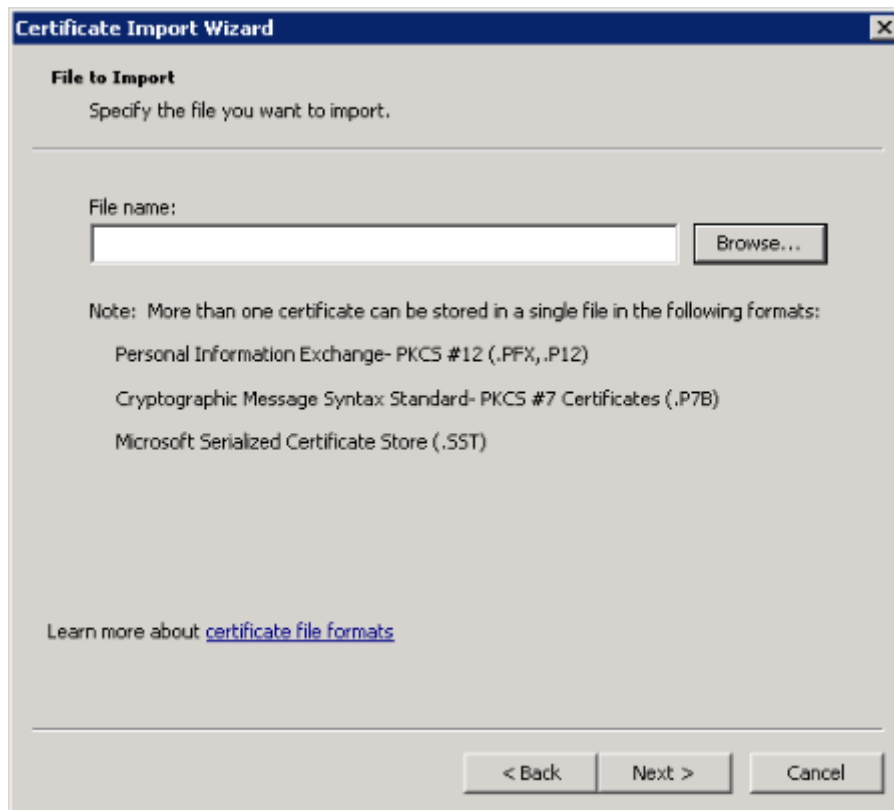
In the MMC window opened in the previous section, drill down to **Certificates (Local Computer)** and **Personal**.



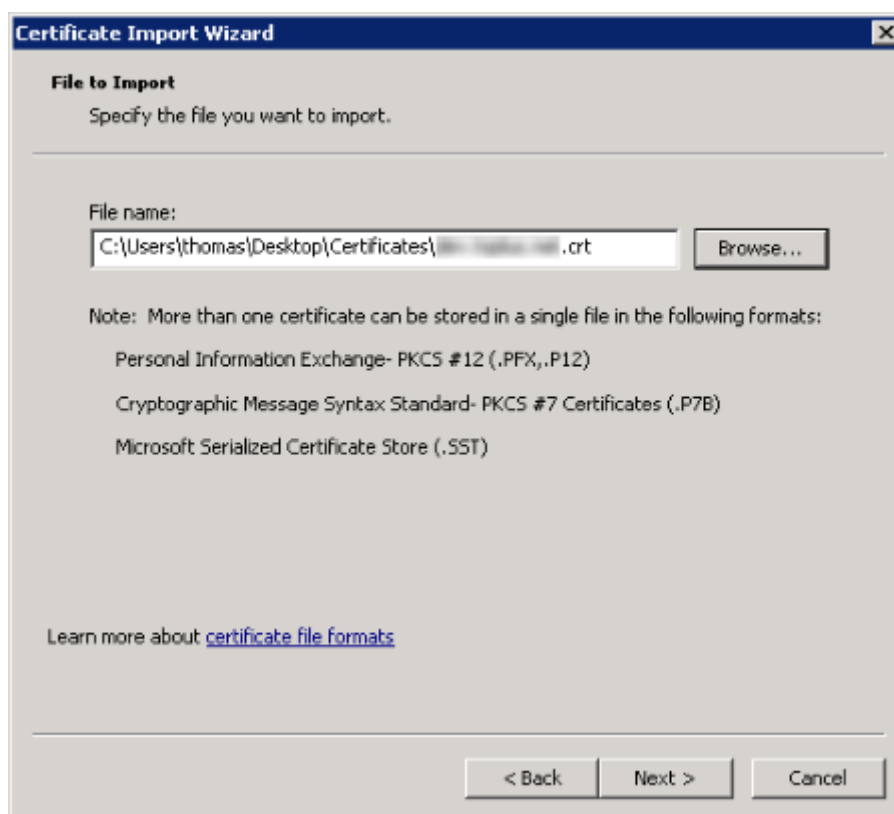
From the **Action** menu on the command bar, select **All Tasks** and then click on **Import...**



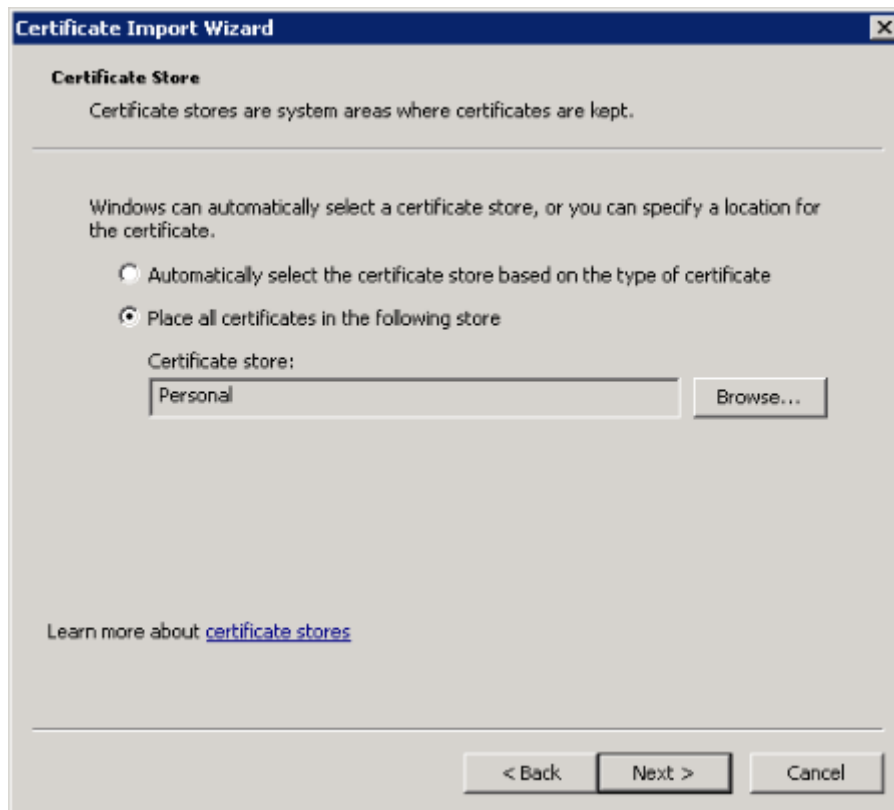
The Certificate Import Wizard opens. Click **Next** to continue.



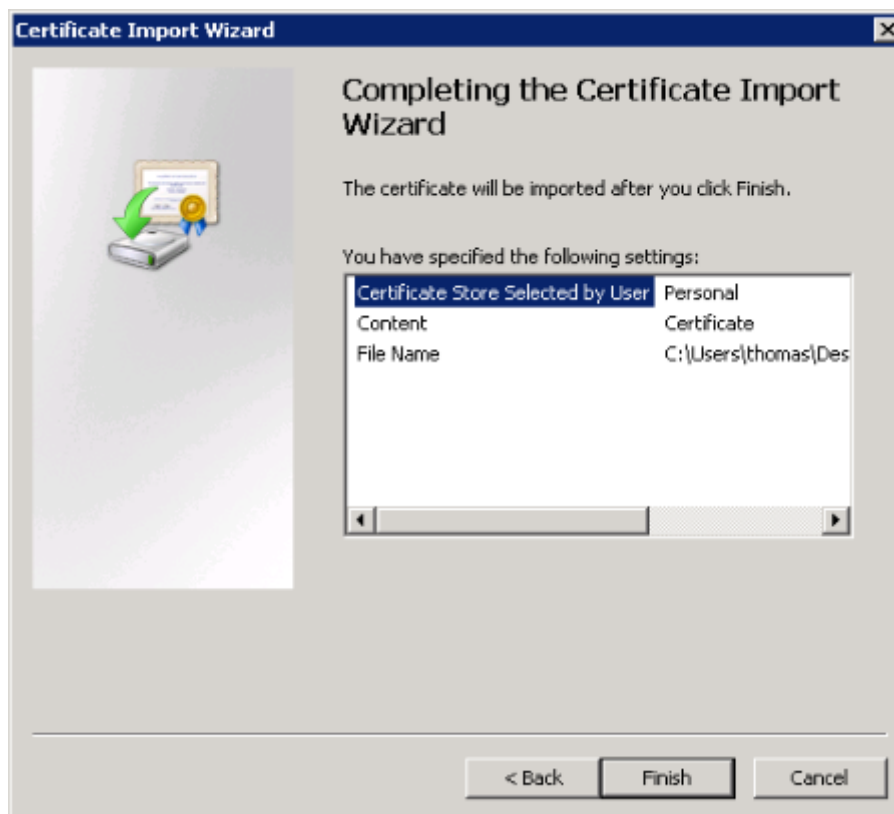
In this step, Click on **Browse** to find the certificate. Then, click **Next** to continue and import the selected certificate. On the next screen, enter the password you chose for the certificate.



Click **Next** to continue.

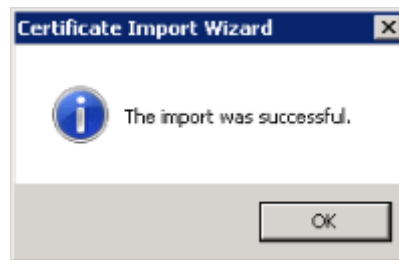


Choose **Place all certificates in the following store**. Verify that the selected certificate store is **Personal**, then click **Next**.



Click **Finish** to import the certificate.

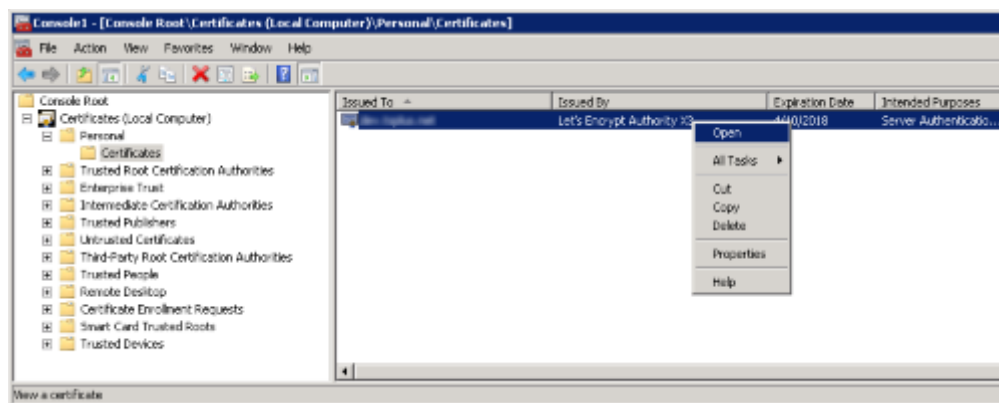




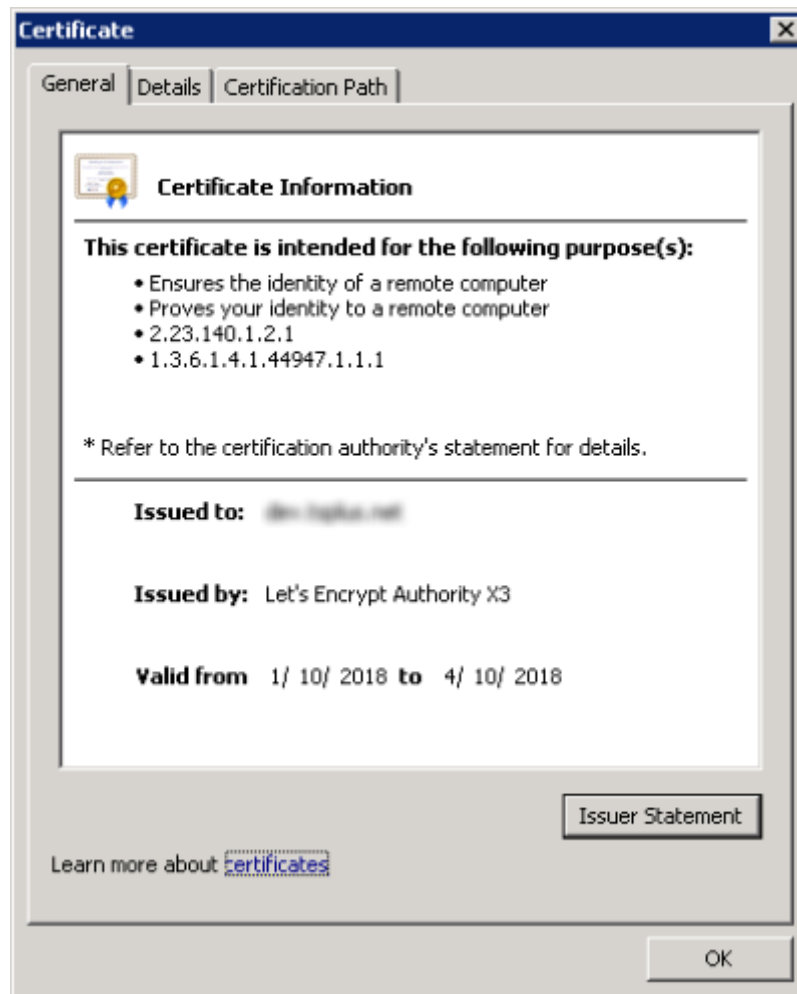
Note:

If you need to import a CA authority certificate, repeat the import procedure above for the CA certificate.

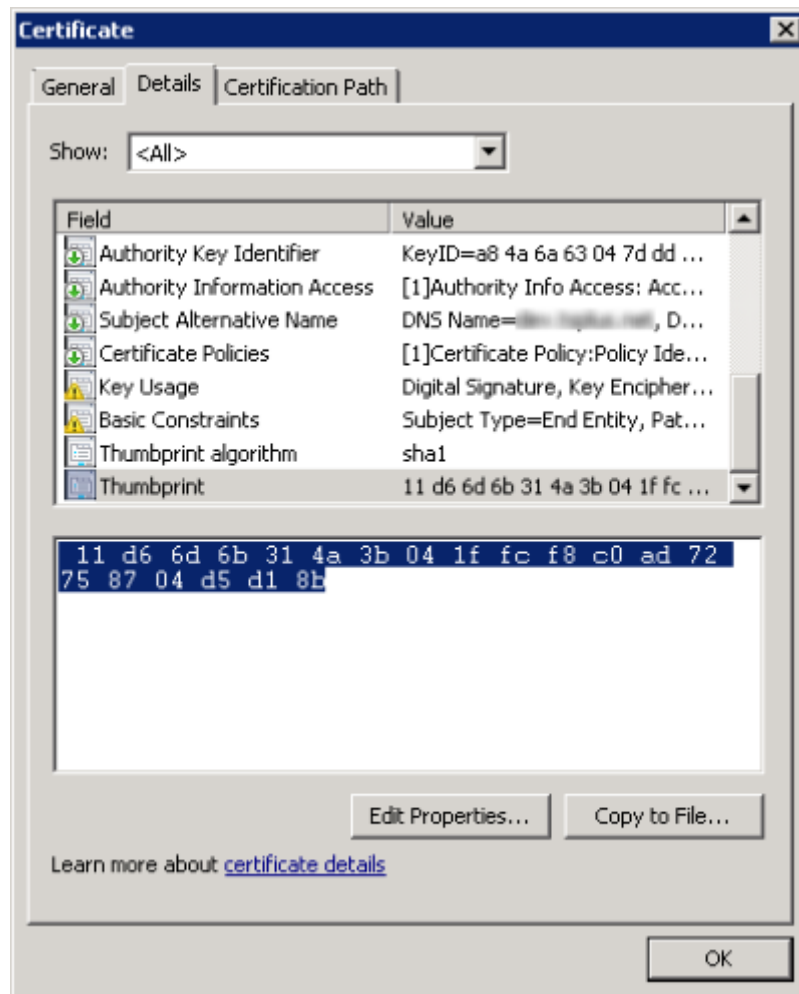
## Find the certificate thumbprint



From MMC, right-click on the certificate and click **Open**.



The certificate's details are displayed. Click on **Details** tab to display the certificate's properties.

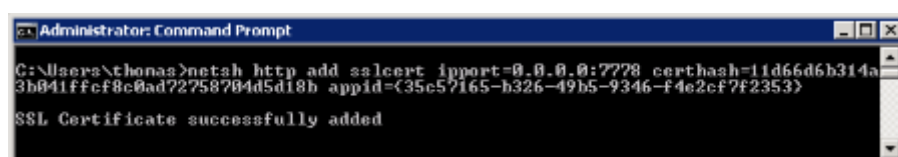


Copy the value of the **Thumbprint** property for the next steps.

## Register SSL certificate for ServerGenius

From the administrative command line, type the following to set up the SSL binding to ServerGenius, and specify the appropriate port:

```
netsh http add sslcert ipport=0.0.0.0:7778  
certhash=??11d66d6b314a3b041ffcf8c0ad72758704d5d18b appid={35c57165-b326-49b5-  
9346-f4e2cf7f2353}
```



The above command line takes the following parameters:

- **ipport** defines the IP address and port which should be configured for ServerGenius. By default, we suggest to use port 7778.

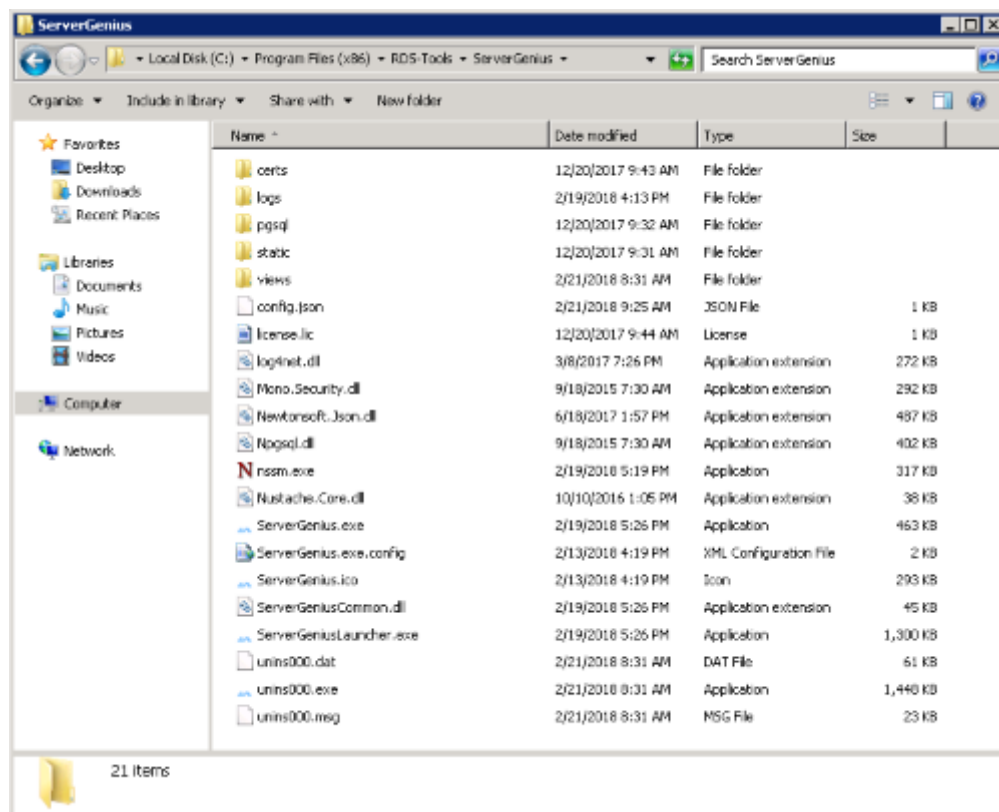
- **certhash** identifies the certificate by its thumbprint, found in the previous section.
- **appid** specifies the application ID. ServerGenius application ID is 35c57165-b326-49b5-9346-f4e2cf7f2353.

### For Windows XP and earlier:

If your ServerGenius server is running under Windows XP or an earlier Windows release, the command **netsh** won't be available. use the **httpcfg** command instead as below:

```
httpcfg set ssl /i 0.0.0.0:7778 /h 11d66d6b314a3b041ffcf8c0ad72758704d5d18b /g  
"{35c57165-b326-49b5-9346-f4e2cf7f2353}"
```

## Configure ServerGenius SSL port



Open Windows **File explorer** and navigate to ServerGenius setup directory. By default, the ServerGenius setup path is the following:

C:\Program Files (x86)\RDS-Tools\ServerGenius

Then, open the file **config.json** and specify the SSL port (e.g. 7778) as the value of the **SslPort** property.

```
1  {  
2    "Port":7777,  
3    "SslPort":7778,  
4    "Key":"VzHDqOIeKJge1YBQqdvxrv05pLX09GGD",  
5    "AdminUsername":"admin",  
6    "AdminPassword":"admin",  
7    "SmtpUsername":"","  
8    "SmtpPassword":"","  
9    "SmtpHost":"localhost",  
10   "SmtpPort":25,  
11   "EmailSender":"reporting@localhost"  
12 }
```

**Note:** in order to disable SSL for ServerGenius, rollback the changes by setting the **SslPort** property's value to **0** and then restart ServerGenius.

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## Restart ServerGenius

From the administrative command line, type the following to restart ServerGenius service:

```
net stop ServerGenius && net start ServerGenius
```

ServerGenius is now configured to use SSL (HTTPS).

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