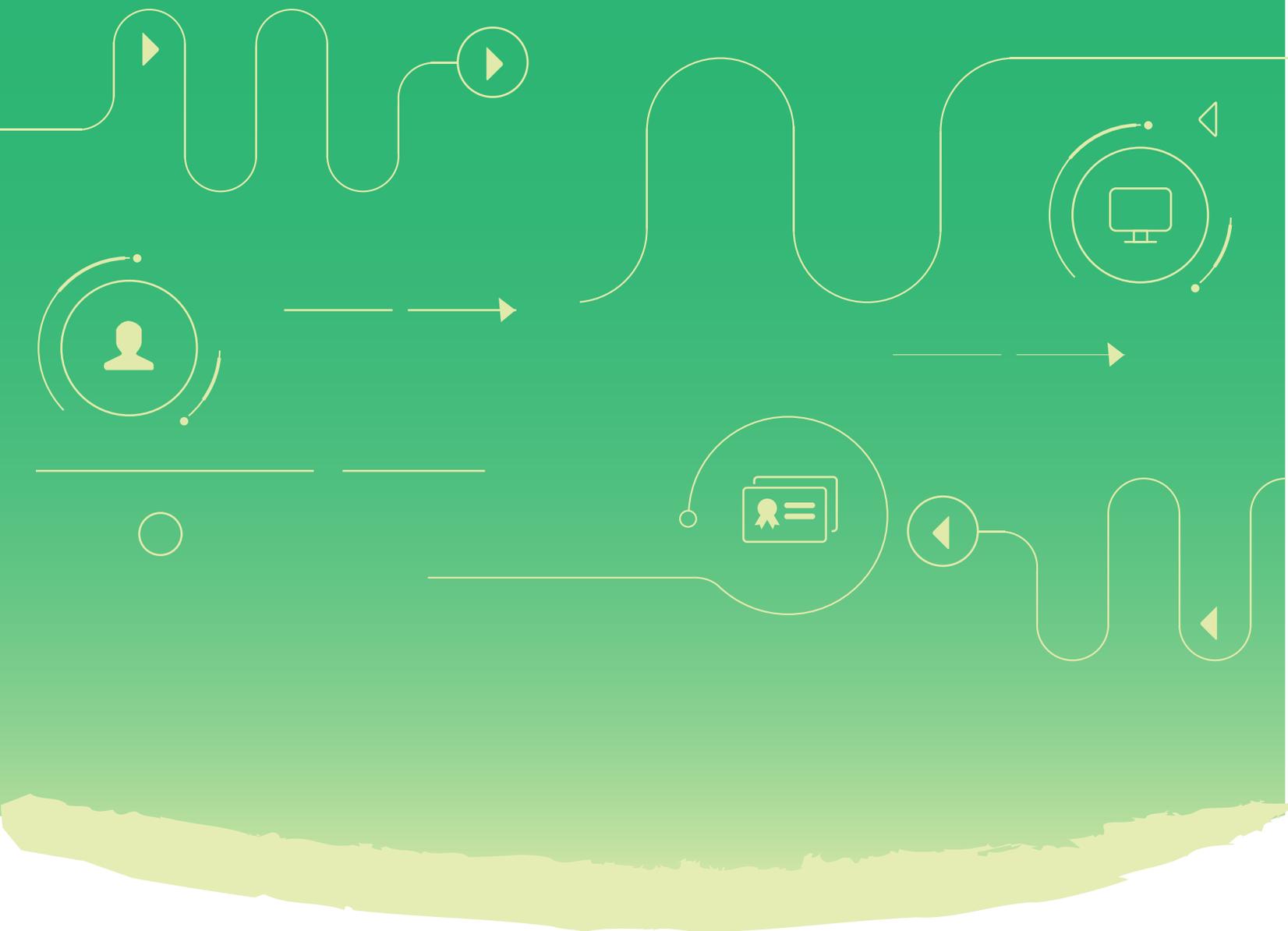


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# Installing SSL Certificates in Microsoft Internet Information Services(IIS)

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## Article purpose

This article provides step-by-step instructions for installing SSL certificates in Microsoft Internet Information services (IIS) using Key Manager Plus.

If you are an organization dealing with a large number of web applications, deploying SSL certificates for your websites and managing them might be one of your top concerns. Let's go over on how to simplify the process of deploying and managing SSL certificates for your websites using Key Manager Plus.

## Deploying existing SSL certificates to IIS

If you have already purchased SSL certificates, follow the steps below to deploy them in Internet Information Services (IIS) and manage them using Key Manager Plus.

### Step 1: Add your certificate to Key Manager Plus repository

To deploy and manage certificates in IIS, you initially have to add your certificates to KeyManager Plus certificate repository. To do that,

- Navigate to **SSL > Certificates** tab
- Click **Add**
- In the **Add Certificate** window that opens, provide the path and click **Add**
- The certificate gets added to Key Manager Plus certificate repository and you can view it from the **SSL > Certificates** tab

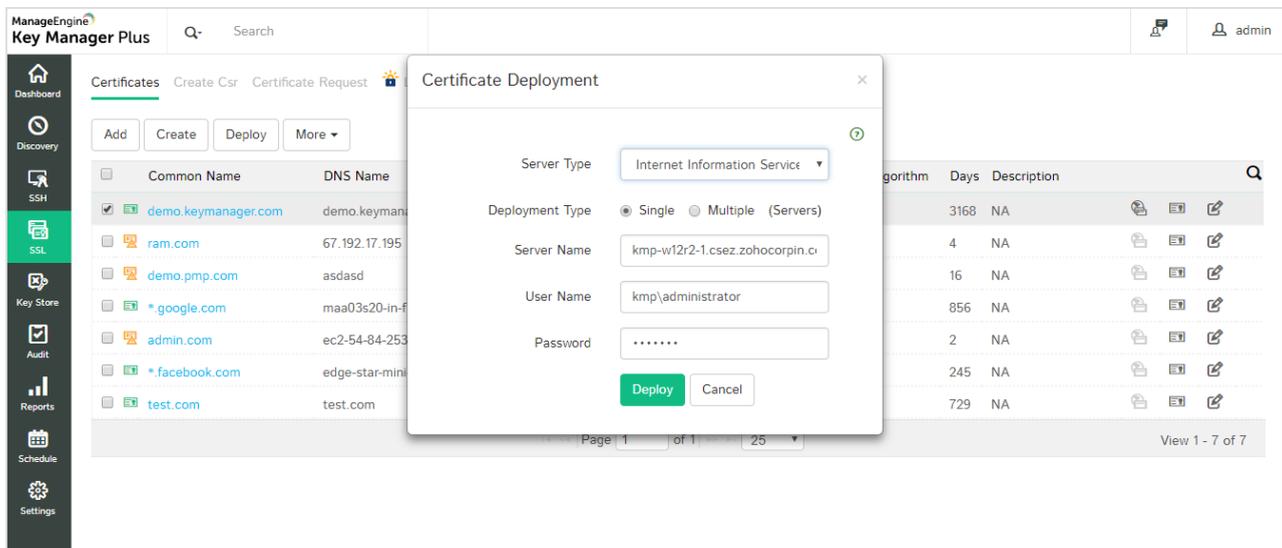
### Step 2: Deploy the certificate to Internet Information Services (IIS)

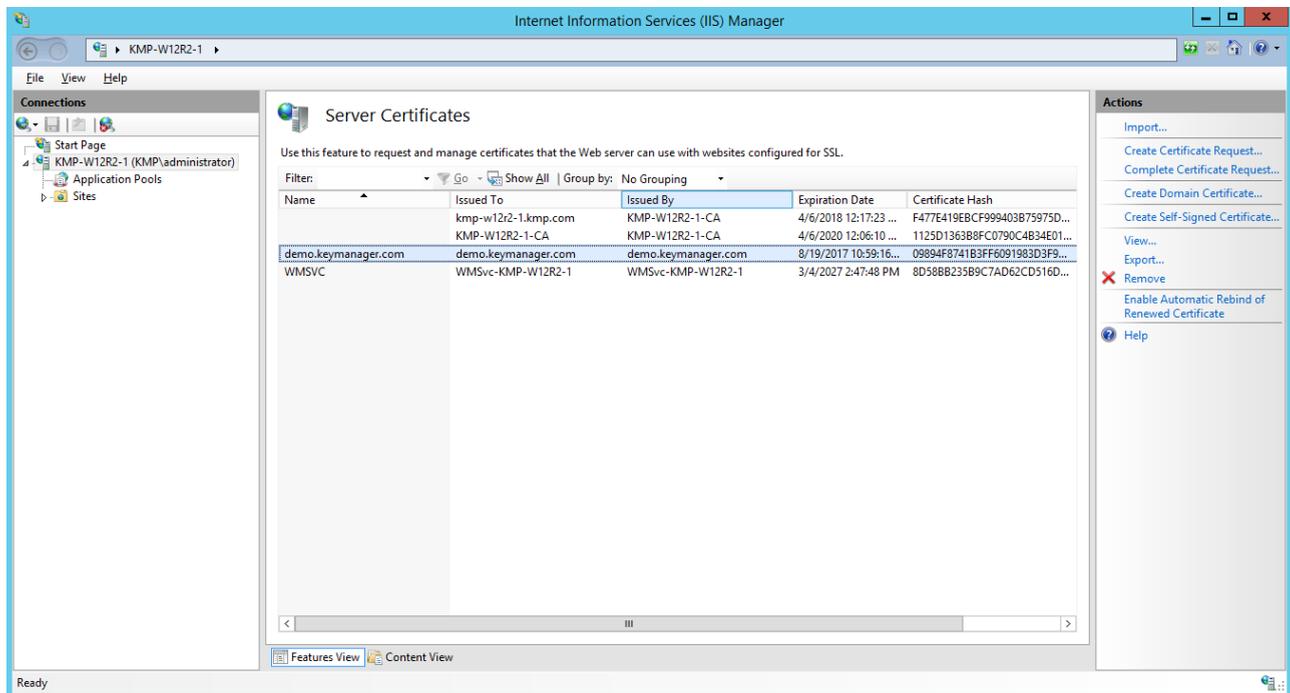
After adding the certificate to the centralized repository, you have to deploy it to your Windows server. This can directly be done from the Key Manager Plus interface.

To deploy the certificate to IIS,

- Navigate to **SSL --> Certificates** tab
- Select the required certificate and click **Deploy**
- In the **Certificate Deployment** window that opens, choose the server type as **Internet Information services (IIS)**
- Choose the deployment type as **single** or **multiple** as per your need Select the required certificate and click **Deploy**
- For single deployment, provide the required details: **Server name**, **user name**, password.
- For certificate deployment on multiple servers, upload a .csv file comprising the following details:  
Server name, user name, password
- After providing the details, click **Deploy**
- The certificate is deployed in **Server Certificates** of the specified server(s)

(Note: By default, the common name is taken as the certificate file name).





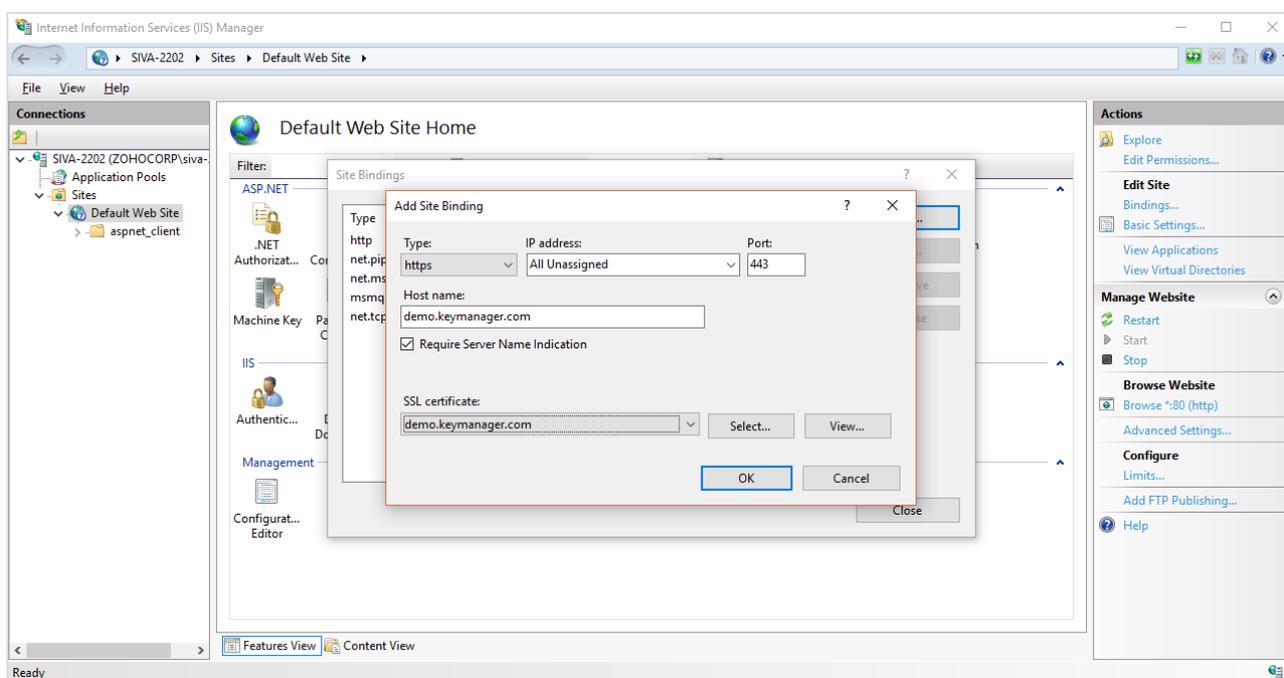
### Step 3: Bind the certificate to your website

Once the certificate is installed on the required server(s), you have to bind the certificate with your website. To do this,

- Navigate to the domain server
- Open the Internet Information Services (IIS) manager

(In the Windows **start** menu, click **Administrative Tools --> Internet Information Services (IIS) manager**)

- In IIS manager, under connections, expand your server name, then expand **Sites**, and then select the site that you want to secure with the SSL certificate
- In the **Actions** pane, under **edit sites** click **Bindings**
- In the **Site Binding** window that opens, click **Add**
- Enter the following information in the **Add Site Binding** window
  1. **Type**: In the drop-down list, select **https**.
  2. **IP address**: In the drop-down list, select **All unassigned**. If your server has multiple IP addresses, select the one that applies.
  3. **Port**: Enter 443, unless you are using a non-standard port for SSL traffic.
  4. **SSL certificate**: In the drop-down list, select the name of the certificate that you just installed.
  5. After filling in the details, click **OK**



There you go, your domain is now SSL secured!

#### **Step 4: Manage certificate expiry and notification**

After deploying your certificates in IIS, you can manage, monitor, audit and track them for expiry from Key Manager Plus interface.

Click [here](#) to try your hand at Key Manager Plus live demo

## **Acquiring Microsoft CA signed certificates and deploying them to IIS**

Follow the steps below to request for certificates from Microsoft CA, deploy and manage them in Internet Information Services (IIS) using Key Manager Plus.

#### **Step 1: Generate Certificate Signing Request (CSR)**

The first step is generating a Certificate Signing Request (CSR), which is more like a blue print for the certificate you are going to purchase.

The screenshot shows the 'Create CSR' form in the ManageEngine Key Manager Plus interface. The form is titled 'Create CSR' and has two radio button options: 'Create CSR' (selected) and 'Create CSR From Private Key'. The form contains the following fields and values:

- Common Name: demo.keymanager.com
- Alternative Names: demo.keymanager.com
- Organization Unit: zoho
- Organization: zoho corp
- Location: chennai
- State: Tamil Nadu
- Country: IN
- Key Algorithm: RSA
- Key Size: 2048
- Signature Algorithm: SHA256
- Keystore Type: PKCS12
- Validity: 356 days
- Store Password: [masked]

A green 'Create' button is located at the bottom of the form.

To generate CSR using Key Manager Plus,

- Login to Key Manager Plus and navigate to **SSL-->Create Csr**
- Click **Create**
- In the **Create CSR** form that opens, fill in the required details and click **Create**
- The **CSR** is saved and you can view it from the **SSL-->Create Csr** tab

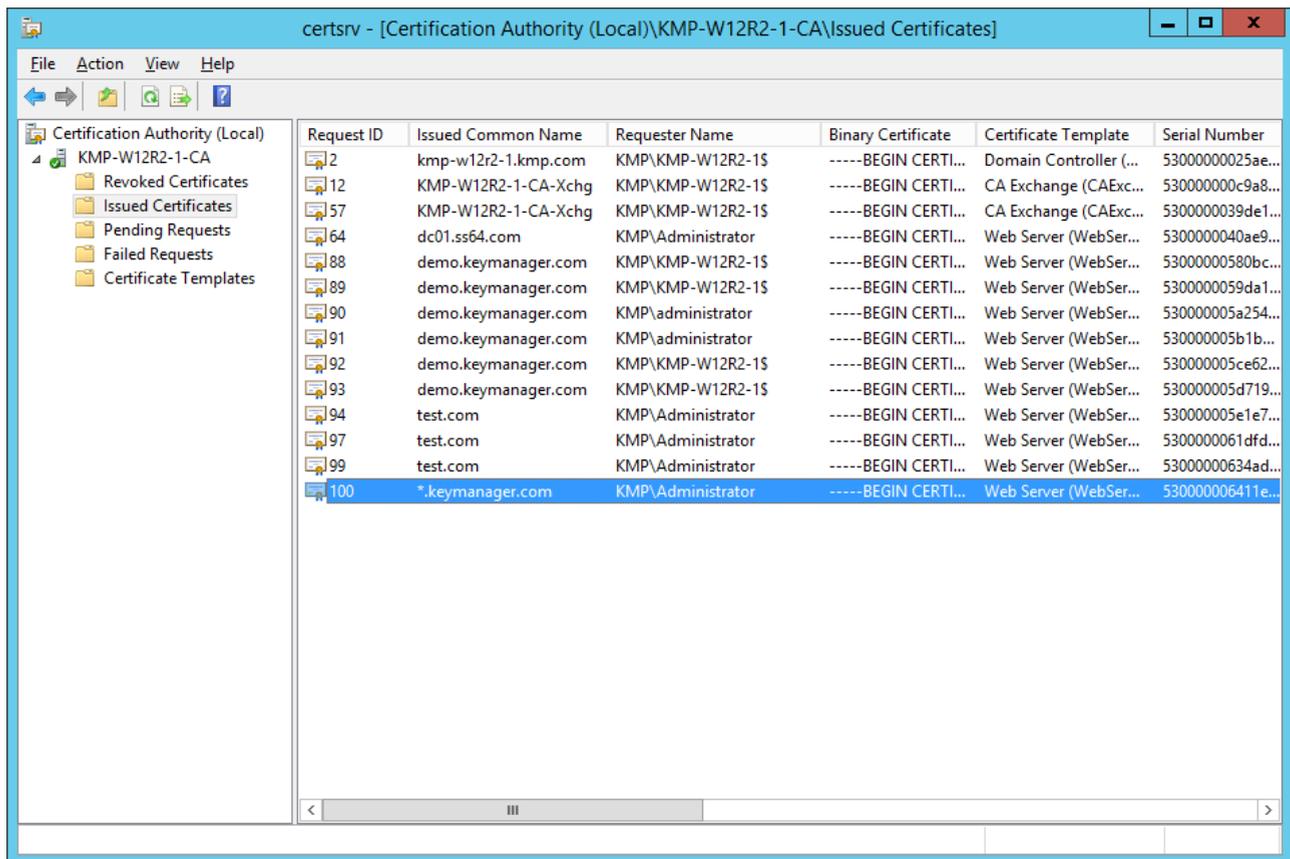
## Step 2: Request for certificate from Microsoft Certificate Services

After generating CSR, the next step is requesting for certificates from Microsoft Certificate Services. To do this,

- Open Microsoft Active Directory Certificate Services on your server
- In the window that opens, click Request a certificate



- The certificate is issued and is present in **Issued Certificates of Local CA**



### Step 3: Add the certificate to Key Manager Plus repository

After the certificate has been issued by MS Certificate Authority, you have to import the certificate to Key Manager Plus repository. To do this,

- Navigate to **Discovery --> MS Certificate Store**
- Select the type as **Local Certificate Authority**
- Specify the server name, user name and password of the machine in which the certificate is present
- Click **Discover**
- The certificates issued by **Microsoft Certificate Authority** are discovered and imported into Key Manager Plus certificate repository, which can be viewed from **SSL --> Certificates** tab

Then follow the steps 2,3 and 4 as mentioned in the previous case to deploy the certificate to your domain server using Key Manager Plus and bind it to the respective website.

## Acquiring trusted third party SSL certificates and deploying them to IIS

### Step 1: Generate Certificate Signing Request (CSR)

Follow the same procedure as in the previous case

### Step 2: Request for certificate from third party CA

After generating CSR, the next step is requesting for certificates from third party CA. This request is usually submitted to the organization administrator or helpdesk, from where it's taken forward to the required Certificate Authority. To raise requests for certificates from Key Manager Plus,

- Navigate to **SSL --> Certificate Request**
- Click on **Add request**
- Select the type of request – **New certificate** or **domain addition**.
  1. **New Certificate** – Attach a CSR to your request (optional) and a domain name for the new certificate.
  2. **Add domain** – Enter the name of the new domain and select a parent domain from the certificates added to the Key Manager Plus repository.
- Enter the mail addresses to which you would like to send the request and specify the certificate the validity period. These email addresses can be that of an administrator, an intermediary who handles certificate requests, or even that of your help desk software to raise the certificate request as a ticket.  
For eg., admin@keymanagerplus.com, help-desk@manageengine.com.
- Click **Additional fields** to add additional information such as device name and IP address
- Click the **Add Request** button to add it to the list of requests in the **Certificate Request tab** and to send the same to the specified email addresses.

ManageEngine  
Key Manager Plus

Search

Certificates Create Csr **Certificate Request** Let's Encrypt

Add Request

Request Type  New Certificate  Domain Addition

Requester Name

Import CSR  Yes  No

Domain Name

Mail-Id

No Of Days

Notes

Additional Fields

**Add Request**

### Step 3: Add the certificate to Key Manager Plus repository

The next step is adding the certificate (that has been purchased from external CA through the above certificate request process) to Key Manager Plus centralized certificate repository.

- Navigate to **SSL --> Certificate Request**
- You can see that the request you have raised earlier is in the '**Open**' state. Now click Open and in the pop up that opens, attach the certificate obtained from the third party CA, an annotation if you want and click **Save & Close**.
- The request is closed and at the same time, the certificate is added to the centralized certificate repository
- You can view the certificate by navigating to **SSL --> Certificates** tab
- To keep track of the requests, email is sent to users who raise and close the certificate requests

### Close Request ×

Request Type	New Certificate
Domain Name	demo.keymanager.com
Annotation	<input type="text" value="testing"/>
Select option	<input checked="" type="radio"/> Certificate <input type="radio"/> JKS / PKCS
Certificate	<input type="button" value="Browse"/> <input type="text" value="cert.cer"/>
Mail-id:	<input type="text" value="admin@zohocorp.com"/>

Then again, follow steps 2,3 and 4 under the first case to deploy the certificate to your domain server using Key Manager Plus and bind it to the respective website.

Go ahead, and give the trial version of Key Manager Plus a shot and write to us for any assistance to [keymanagerplus-support@manageengine.com](mailto:keymanagerplus-support@manageengine.com). Click [here](#) to download Key Manager Plus.