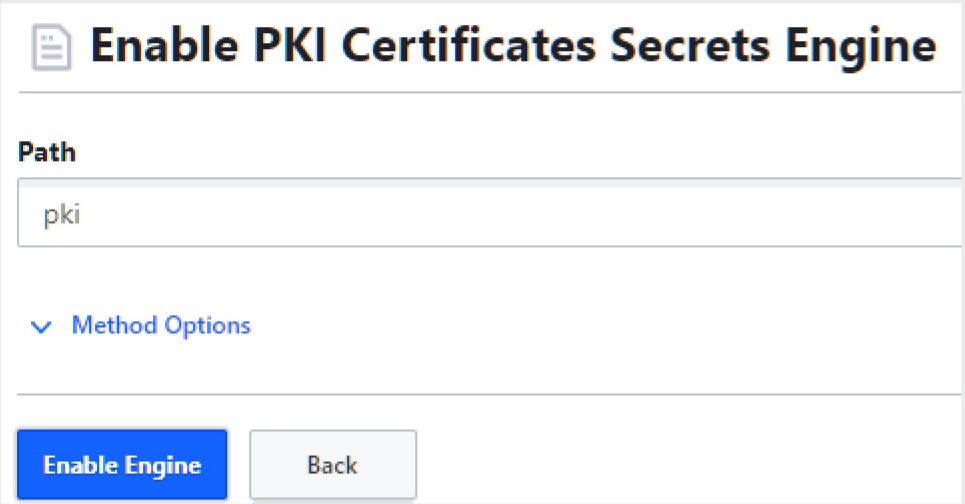
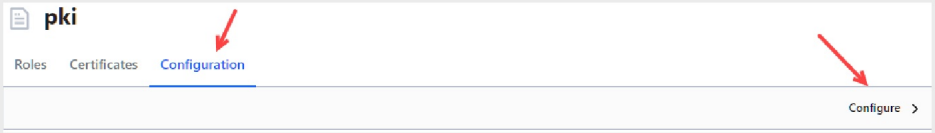
HashiCorp Vault Vault PKI Secret Engine

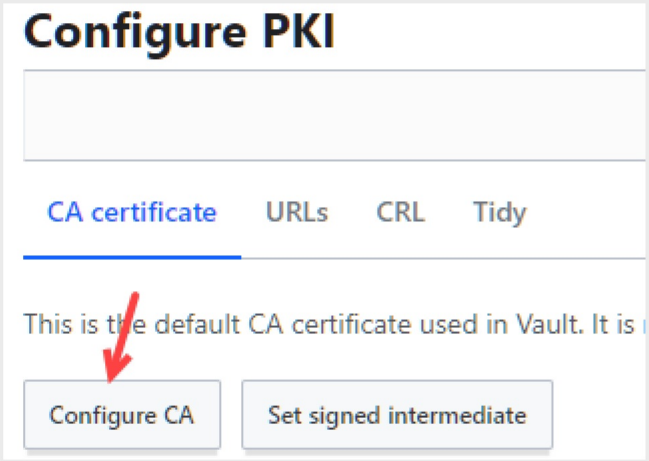
1 Enable the PKI Secret Engine

2 Enable the Engine



3 Configure the ROOT CA





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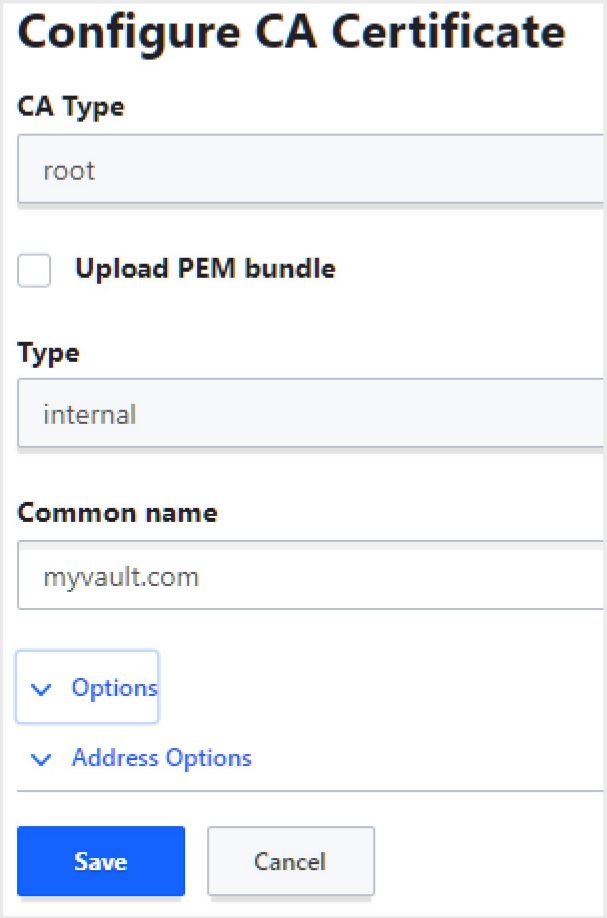
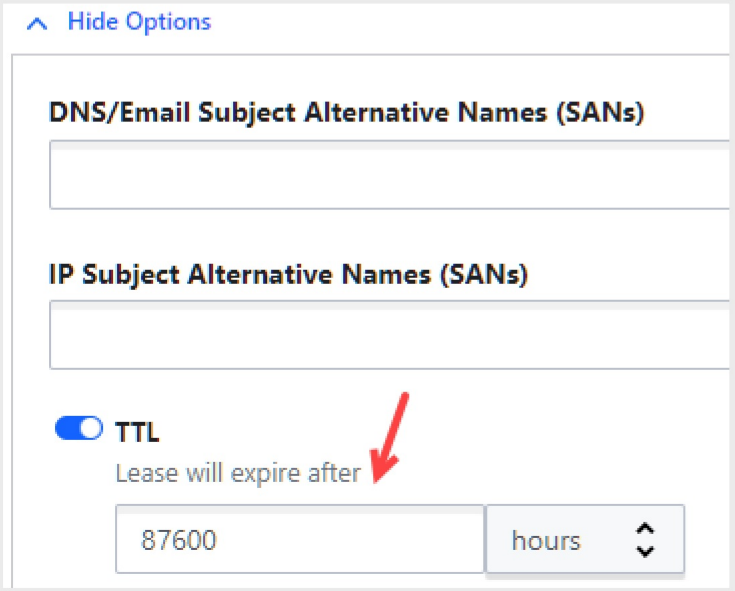
4 Configure CA Certificate

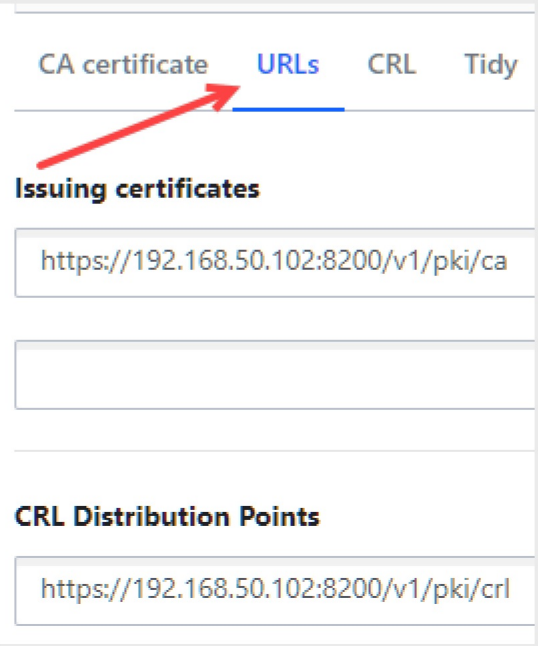


5 Configure the TTL



After TTL Configuration click on save

6 Configure the URL



enter the your vault server ip address

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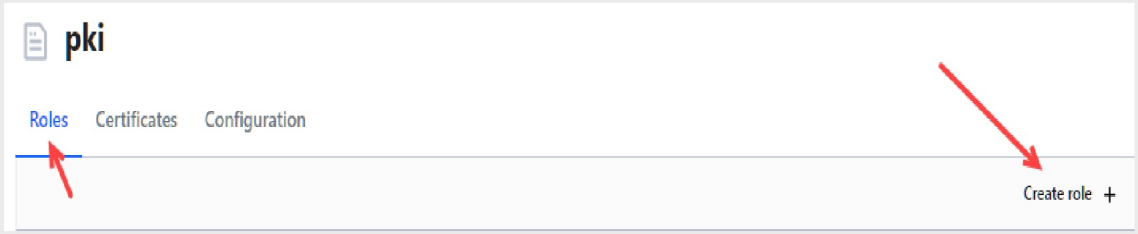
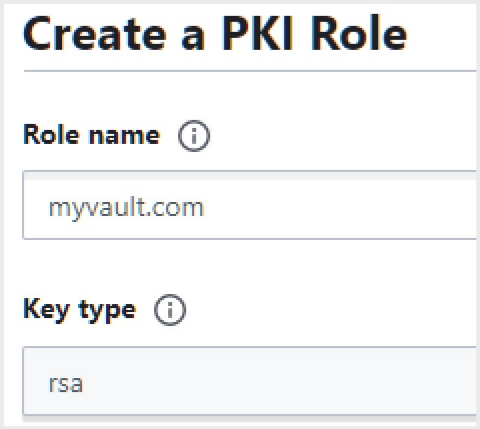
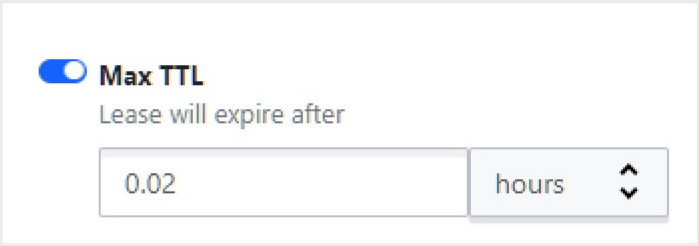
7 create role



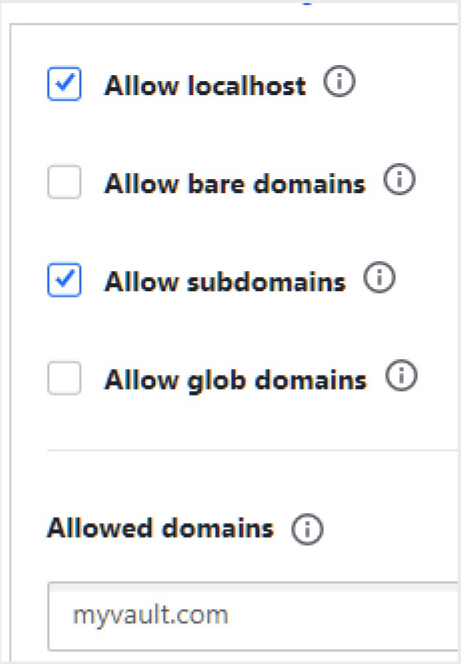
7.1



7.2



7.3



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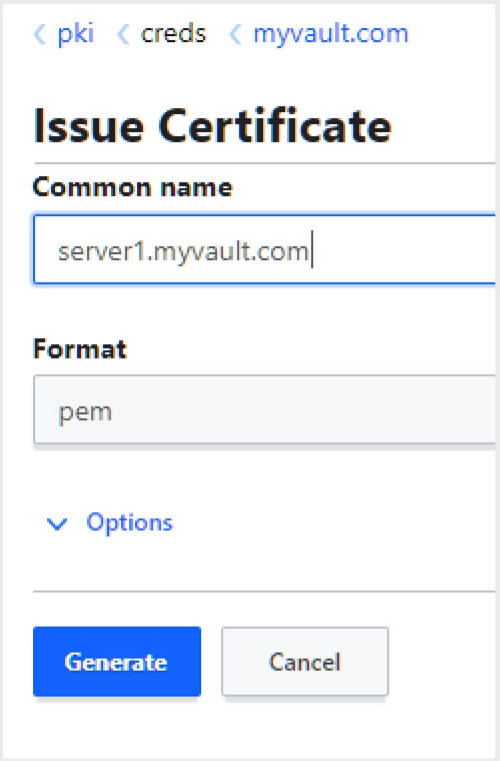
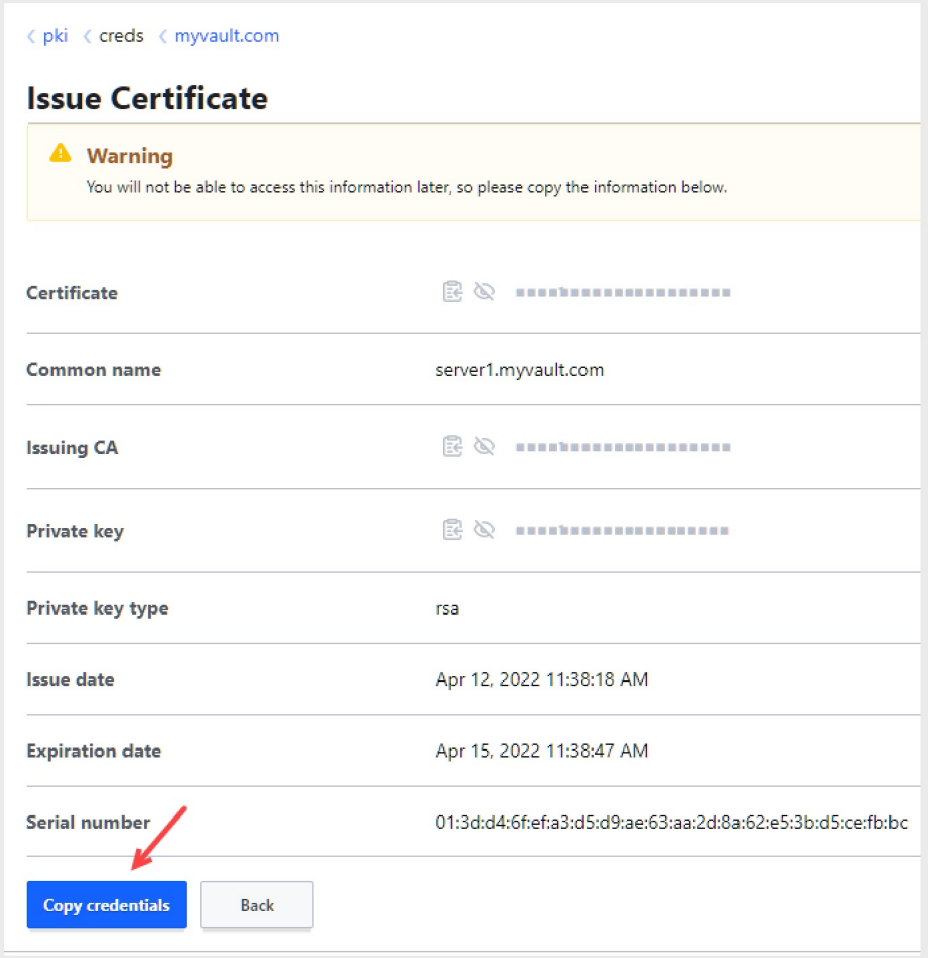
8 Generate Certificate

8.1



8.2



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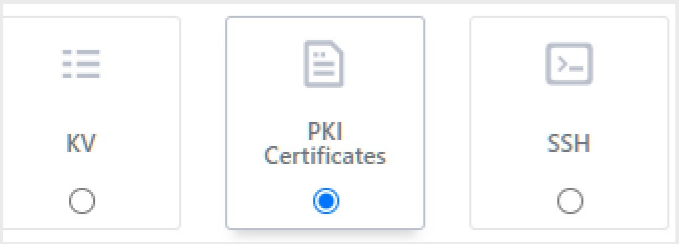
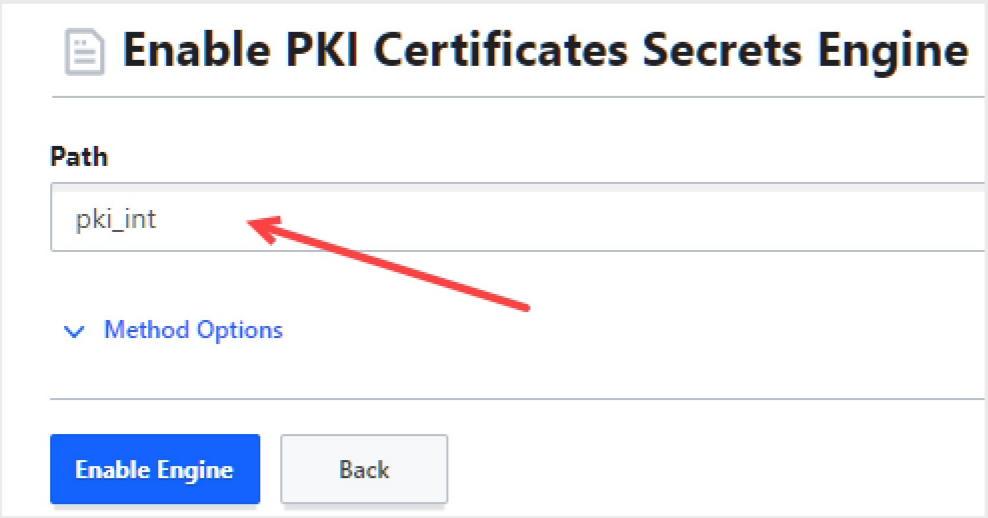
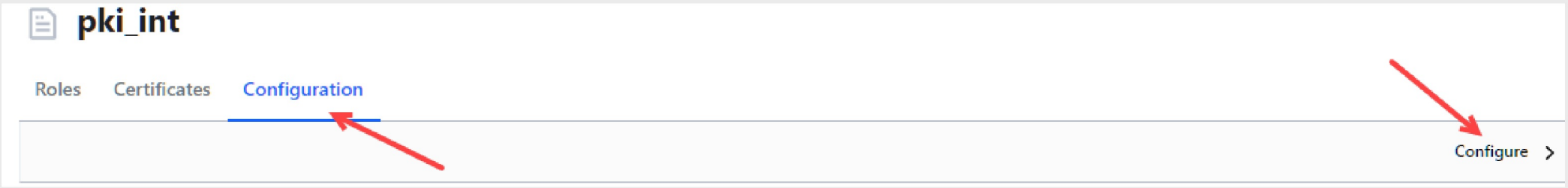
9 Configure the Intermediate CA



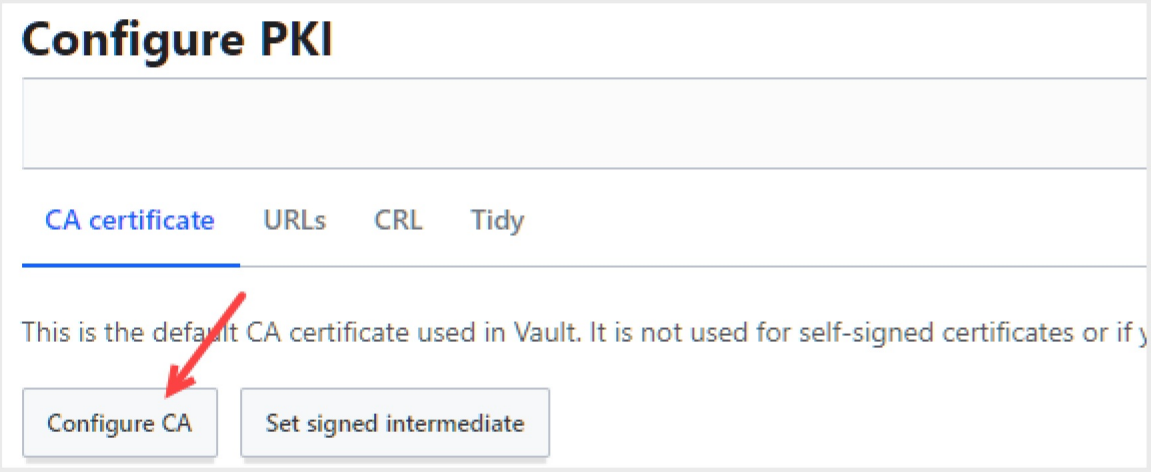
9.1



9.2



9.3



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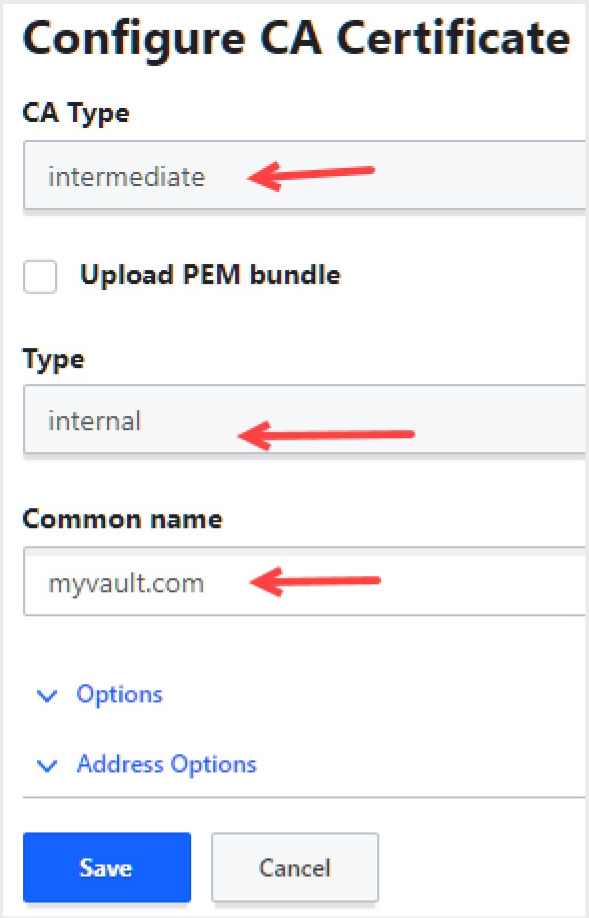
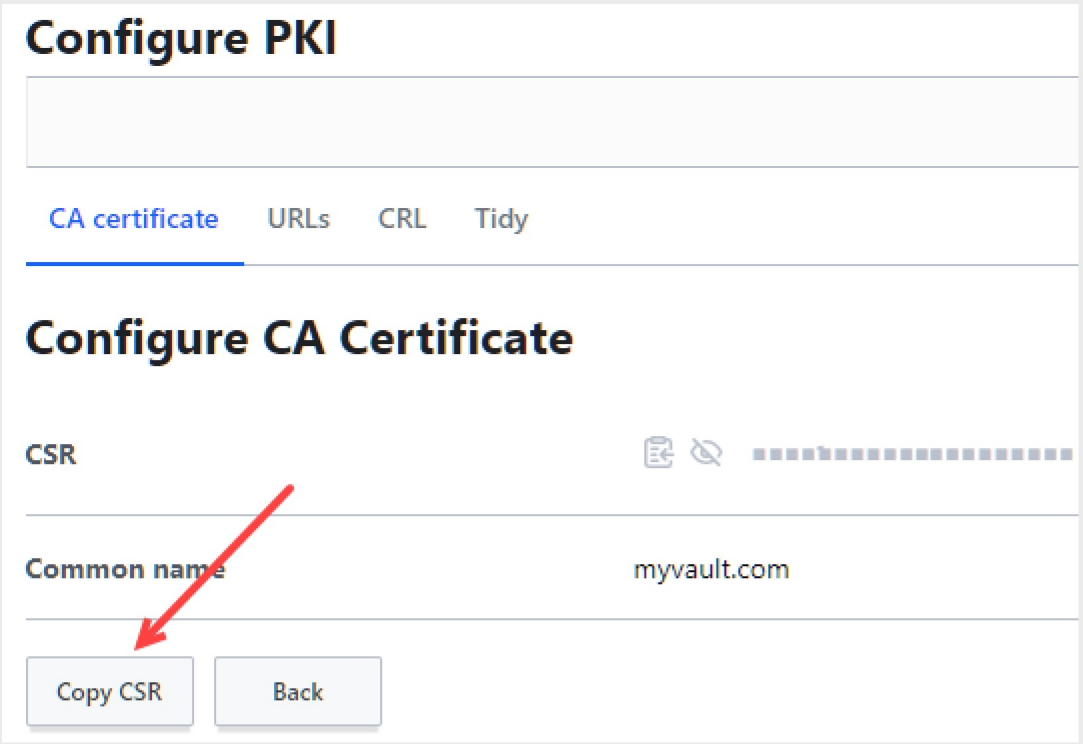
9.4 Configure the Intermediate CA



9.5 Copy CSR



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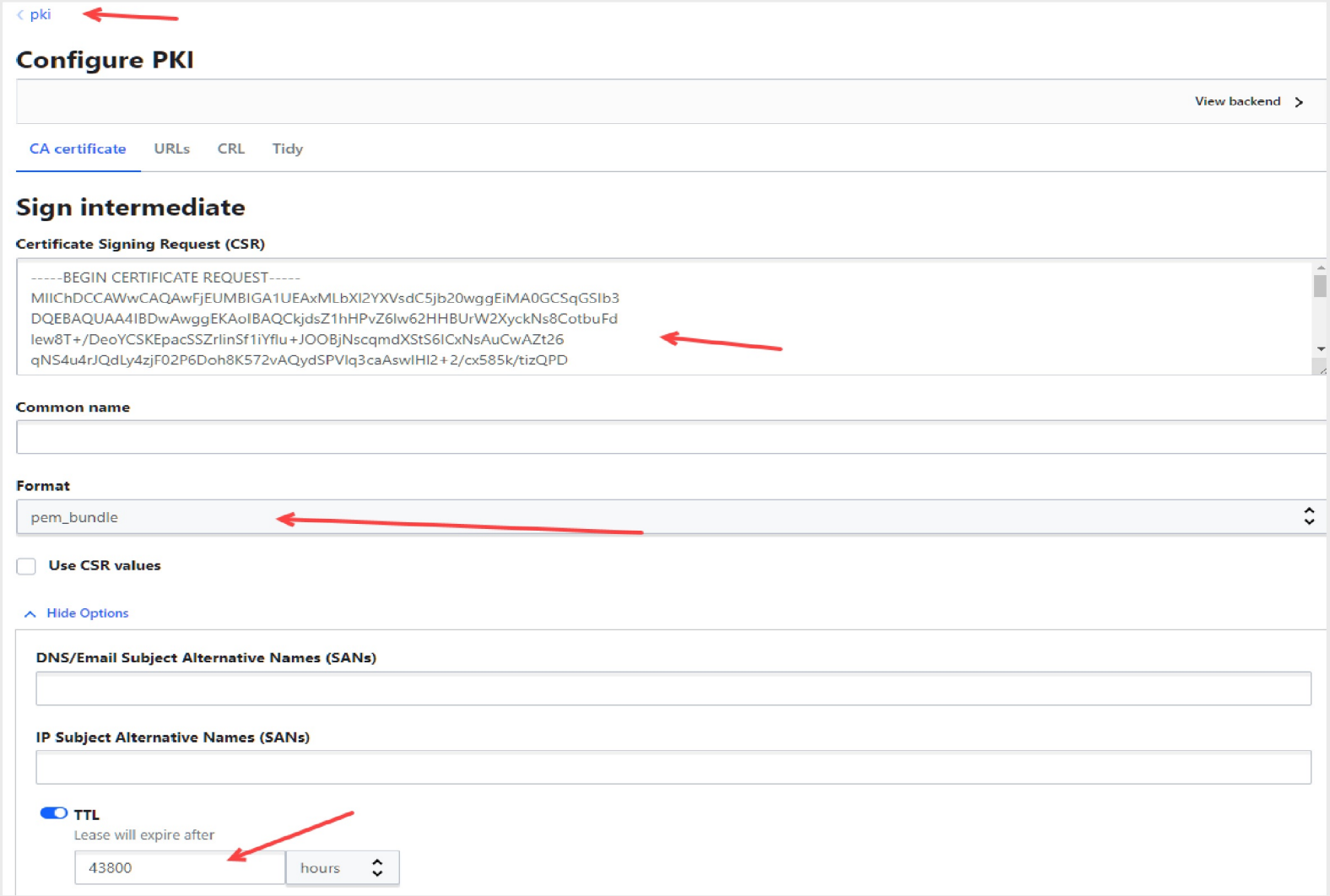
10 copy CSR and visit root CA and paste CSR



after these steps one more certificate generate please copy it sign the intermediate

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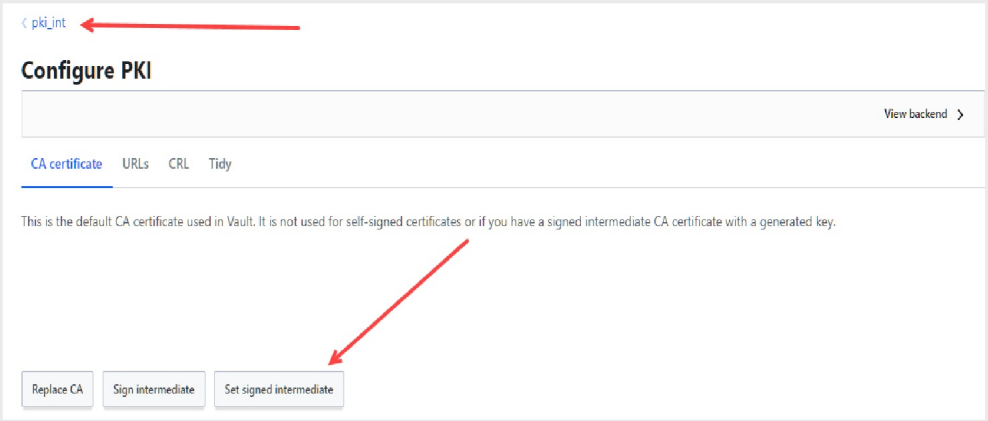
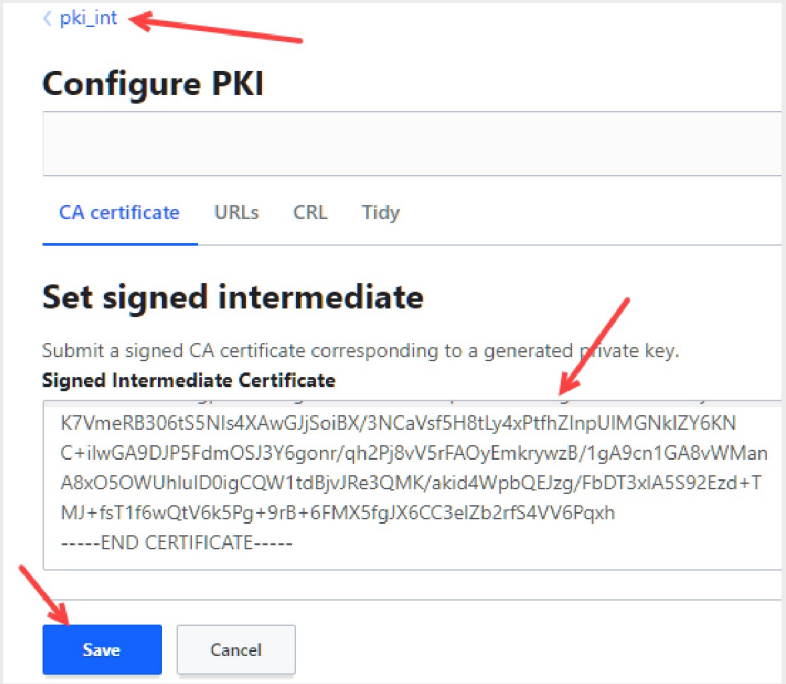
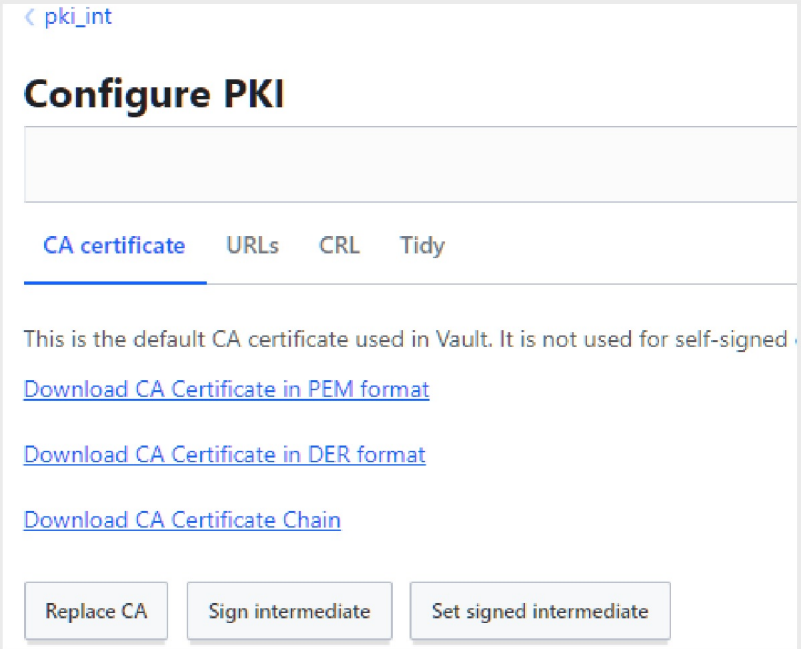
10.2 Set Signed Intermediate







Certifcate are generated

Add your text here

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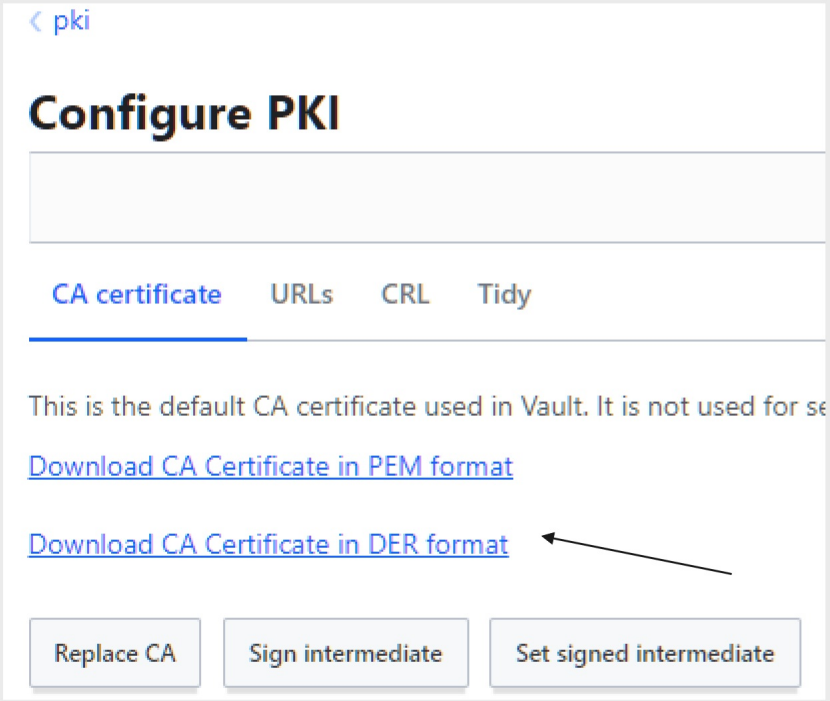
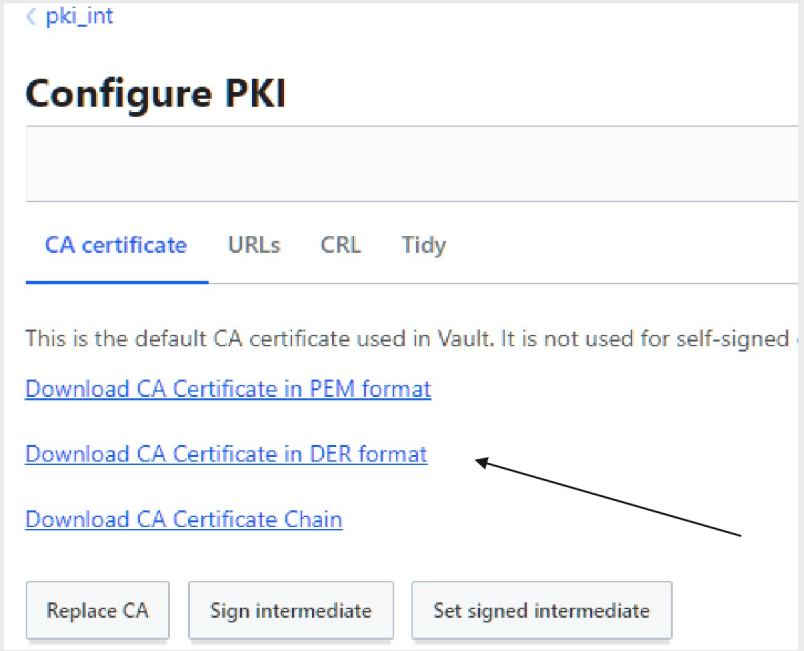
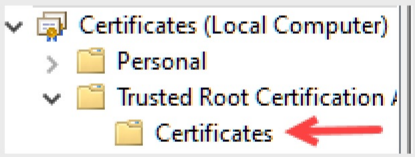
11 Download ROOT CA and Intermediate CA Certficate In Import to ROOT and Intermediate Authority

ROOT CA Certificate

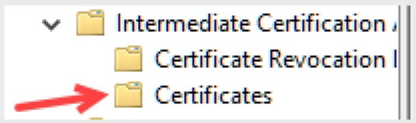


Intermediate Certificate





Import In window Certifcate store



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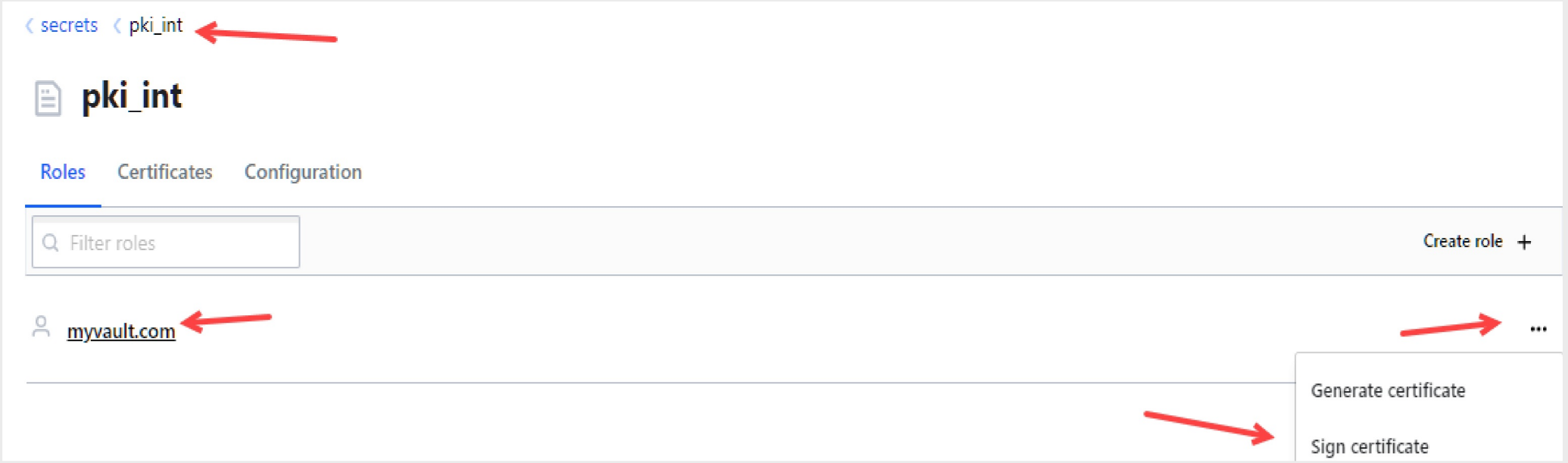
12 Visit pki_int/role click on generate certificate



Rolename

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13 Generate the Certificate for the Website

```
vault write pki_int/issue/myvault.com ttl=31556952 common_name="server1.myvault.com" ip_sans="192.168.50.106"  -format=json > client_certs.json
```

Note You Must install jq before execute command make Seperate folder and do these step to avoid confustion

```
cat client_certs.json | jq -r '.data.certificate' > client-cert.pem
cat client_certs.json | jq -r '.data.private_key' > client-key.pem
cat client_certs.json | jq -r '.data.issuing_ca' >  ca.pem
cat client_certs.json | jq -r '.data.ca_chain[]' > ca_chain.pem
```

Generate the pfx for windows server

```
openssl pkcs12 -export -in client-cert.pem -inkey client-key.pem -out certificate.pfx -certfile ca_chain.pem
```

Generate the pfx for windows server

copy generated pfx to windows server

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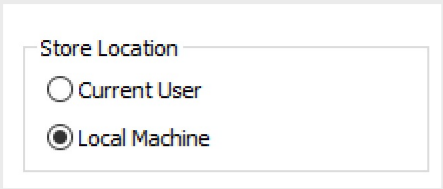
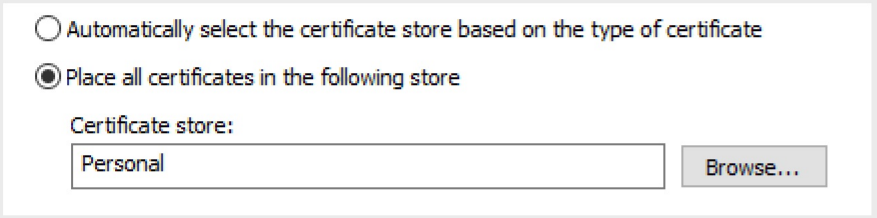
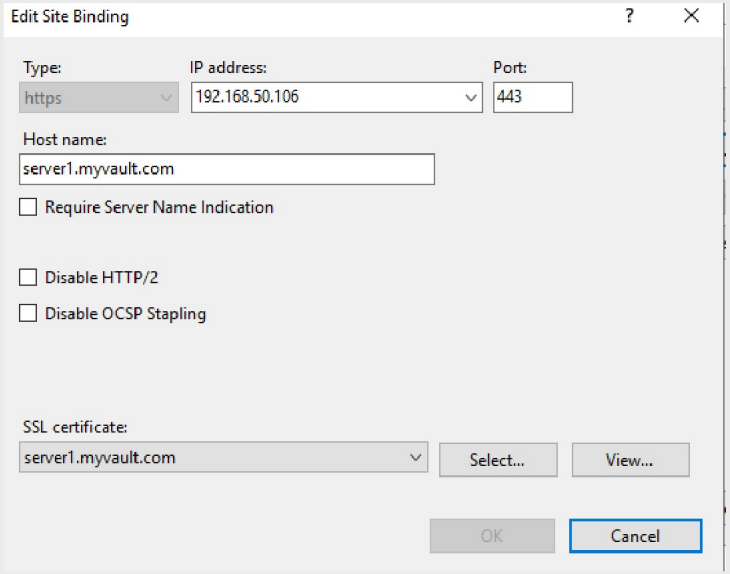
13 Bind the certificate in the IIS server

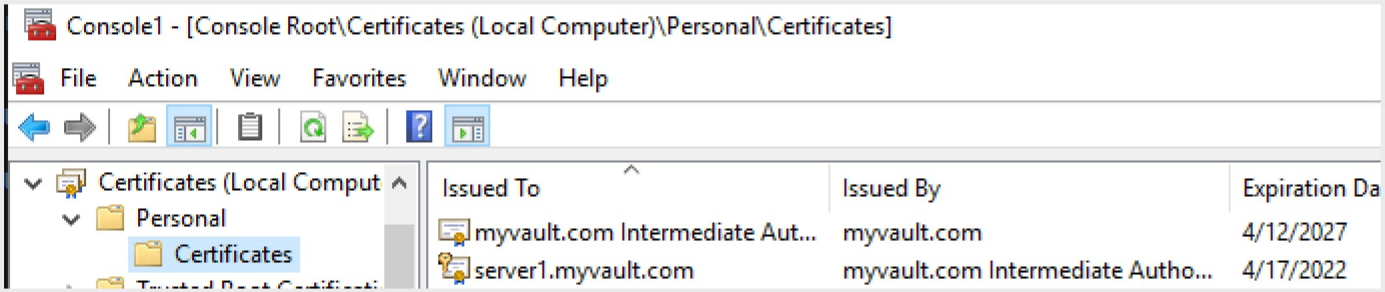
13.1 Install the certificate.pfx by double click





13.2 Bind the certificate in IIS





Make Entry in etc/hosts 192.168.50.106 server.nyvault.com

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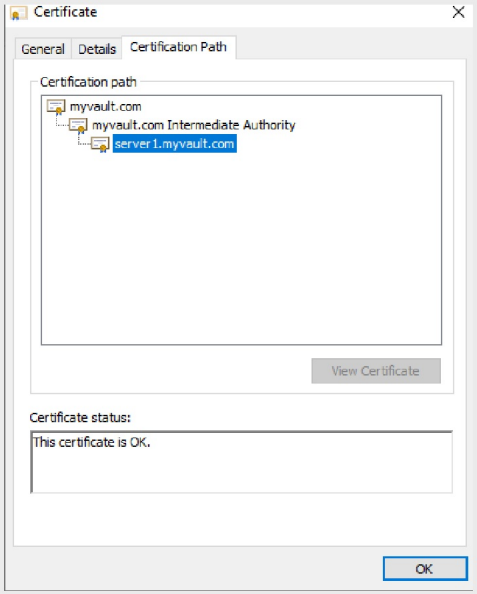
Vault PKI Secret Engine

13 Bind the certificate in the IIS server

13.3 entry in /etc/hosts

Make Entry in etc/hosts 192.168.50.106 server.myvault.com

machine which try to access the website should have ROOT CA and Intermediate CA Certificate Imported According to Page Number 9



13.4 Access the Website