KB LEVEL: SVR	KB ARTICLE	VD AU IMADED.	
	How to Generate SSL Certificate for ESXi Host	KB NUMBER: 01	

KB Category:	Internal		
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Problem Description:	Accessing VMware web client is not secured due to invalid certificate.
Symptoms and Cause of the issue:	Existing SSL Certificate is not valid due to untrusted CA Root.

### Servers:

GL2-PESX-HV01.openaccess.bpo GL2-PESX-HV02.openaccess.bpo JKA-PESX-HV01.openaccess.bpo

### **Procedures:**

**Step 1:** Perform backup by accessing the ESXi host server via SSH or remote console using VMware web client. Navigate to **/etc/vmware/ssl** then copy the existing certificate and key.

cd /etc/vmware/ssl mv rui.crt rui.crt.bak cp rui.key rui.key.bak

**Step 2:** Edit the *openssl.conf* on the same directory and add the lines below.

## vi openssl.conf

```
[req]
distinguished_name = req_distinguished_name
prompt = no
[req_distinguished_name]
C = PH
ST = NCR
L = Makati
O = OAMPI Inc.
OU = IT Department
CN = (server_name)
```

Then press:wq! to save the configuration.

Step 3: Generate now the Certificate Signing Request by executing the command below.

openssl req -new -key /etc/vmware/ssl/rui.key -config openssl.cnf \-out /etc/vmware/ssl/rui.csr

**Step 4:** After generating the CSR file, copy it to the CA server (Kalliope) via SCP. Save the CSR file to /root/ca/intermediate/csr

scp /etc/vmware/ssl/rui.csr jlictao@10.1.0.250:/root/ca/intermidiate/csr



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**Step 5:** In CA server, navigate to **/root/ca/intermediate** and edit the **openssl.conf**. Add the FQDN of the requesting server to the last line as **Subject Alternative Name** then save.

# cd /root/ca/intermediate vi openssl.conf

[ nameSan ]

DNS.1 = GL2-PESX-HV01.openaccess.bpo

**Step 6:** Sign the CSR using the command below.

openssl ca -config intermediate/openssl.cnf \-extensions server\_cert -days 365 -notext -md sha256 \-in intermediate/csr/rui.csr \-out intermediate/certs/rui.crt

Enter the intermediate key then press Y.

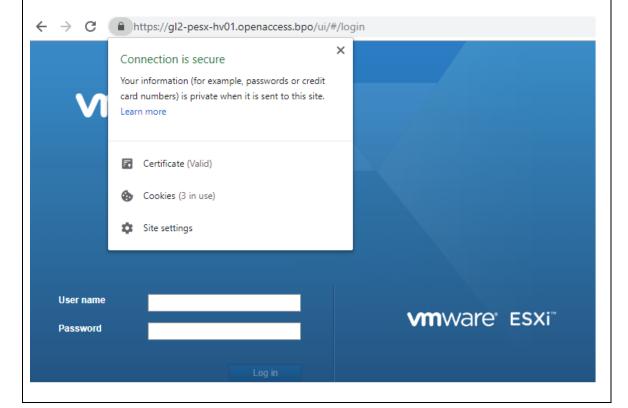
**Step 7:** Copy the signed certificate to the ESXi host from the CA server.

scp /root/ca/intermidiate/certs/rui.crt root@172.22.8.1:/etc/vmware/ssl

**Step 8:** Reboot the ESXi host server.

## **Verification Steps:**

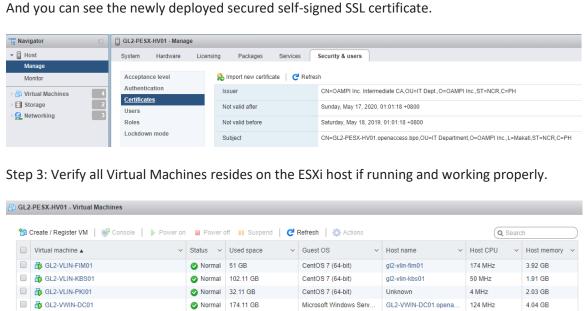
Step 1: After rebooting the ESXi host server, login into the VMware web client using https.





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Step 2: Enter the root login credential then navigate to Host > Manage > Security > Certificates. And you can see the newly deployed secured self-signed SSL certificate.





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