Dragona Occuracy	FORM	
Process Owner: IT Operations	Generate Certificates for all ESXi Host	F-CMG-3.1

Request Information				
Requestor	Jan	Francis Lictao		
Implementing Team	Ser	Server Operation		
Ticket Number/s				
Change Classification	Х	Major		Minor
After the fact	Х	Yes		No
Emergency		Yes	Х	No
Proposed Change Date	ATF			
Proposed Change Start/End Time	ATF			
Proposed Change Verification Time	ATF			

Objective of the change

Creating and installing Certificates to fulfill the PCIDSS compliance requirement.

Technical/Operational Impact of the change				
Negative:	Beneficial:	Neutral:		
Required downtime as reboot	Certificate for ESXi host are	Compliance with PCIDSS		
is needed after the installation	valid.	requirements.		
of certificate.				

Affected	Affected IT Infrastructure components			
Site	Hostname	IP Address	Function	
G2	GL2-PESX-	172.22.8.1	Virtualization	
	HV01			
G2	GL2-PESX-	172.22.8.2	Virtualization	
	HV02			
Jaka	JKA-PESX-	172.17.1.11	Virtualization	
	HV01			

Affected Departments and corresponding contact persons				
Department	Contact Name	Contact Info		
Server Operation	Rovie Salvatiera	0917-627-4325		

Test Environment implementation and Verification Summary

Tested in 172.22.8.4 ESXi Host test server.

Test Environment Results Summary

Test ESXi host server has a valid certificate.



Dragoss Owners	FORM	
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Configuration Change Template

Baseline File	3.1.135 DELL EMC - ESXi
Baseline Version	2.0

Baseline File Changes:

Existing Configuration	Proposed Change	Impact	Section
VMware self-signed certificates.	Create CSR and signed by our own CA then install to the ESXi host.	Addition tab for Certificates.	Certificates

Physical Implementation Procedures / Advisory
No physical implementation will be facilitated.

Backup Procedures

- 1. Login to ESXi Host via ssh and enter the super user account.
- 2. Navigate to /etc/vmware/ssl. cd /etc/vmware/ssl
- 3. Copy the existing certificate and key. mv rui.crt rui.crt.bak cp rui.key rui.key.bak

Technical Configuration Procedures

- 1. Login to the ESXi Host via SSH using root account.
- 2. Navigate to /etc/vmware/ssl.
- 3. Edit the openssl.conf and enter the following lines below.

OPEN ACCESS	

Dragoss Oumari	FORM	
Process Owner: IT Operations	Generate Certificates for all ESXi Host	F-CMG-3.1

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 = GL2-PESX-HV01.openaccess.bpo
```

- 4. Press: wq! to save the changed configurations.
- 5. Generate now the Certificate Signing Request. openssl req -new -key /etc/vmware/ssl/rui.key -config openssl.cnf \-out /etc/vmware/ssl/rui.csr
- 6. After generating the CSR file, copy it to the CA server (Kalliope) via SCP.
- 7. Save the CSR file to /root/ca/intermediate/csr scp /etc/vmware/ssl/rui.csr jlictao@10.1.0.250:/root/ca/intermidiate/csr
- 8. In CA server, navigate to /root/ca/intermediate and edit the openssl.conf. Add the FQDN of the requesting server to the last line then save it after editing.

vi openssl.conf

```
[nameSan]
DNS.1 = GL2-PESX-HV01.openaccess.bpo
```

9. 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 the press Y.

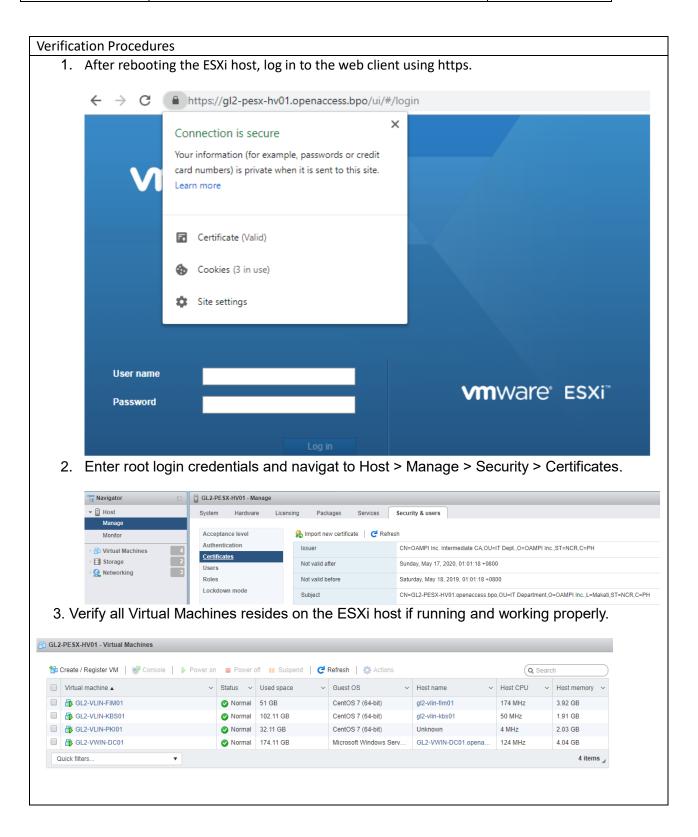
10. Copy the signed certificate to the ESXi host from the CA server.

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

- 11. Reboot the ESXi Host.
- 12. Follow the same procedure to the other ESXi host.

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Dracass Owner	FORM	
Process Owner: IT Operations	Generate Certificates for all ESXi Host	F-CMG-3.1

Back-out Procedures	
1.	Run the command below to the ESXi host.
	/sbin/generate-certificate