

Lab Topology # 1





www.nettechcloud.com

Configuring underlay Network

Interface Configuration

R5 Router

Interface	IP Address	Subnet Mask
fa1/0	192.168.45.5	255.255.255.0
fa2/0	172.16.1.254	255.255.255.0
fa0/0	192.168.57.5	255.255.255.0
fa0/1	192.168.56.5	255.255.255.0

R6 Router – Internet Cloud Router

Interface	IP Address	Subnet Mask
fa1/0	192.168.16.6	255.255.255.0
fa2/0	192.168.56.6	255.255.255.0
fa0/0	192.168.36.6	255.255.255.0
fa0/1	192.168.26.6	255.255.255.0

R7 Router – MPLS Cloud Router

Interface	IP Address	Subnet Mask
fa1/0	192.168.17.7	255.255.255.0
fa2/0	192.168.57.7	255.255.255.0
fa0/0	192.168.37.7	255.255.255.0
fa0/1	192.168.27.7	255.255.255.0



Task 1 – R5 Router Configuration

- Configure the Interfaces based on the Logical Diagram
- Configure OSPF as the IGP to communicate with the MPLS Cloud. Enable all the interfaces.
- Make sure OSPF only sends and receives OSPF packets on the link towards the MPLS Cloud using the Passive-interface command.
- Configure a default route on the router towards the Internet

enable conf t ! Hostname R5 1 Interface fa1/0 ip address 192.168.45.5 255.255.255.0 no shut ! Interface fa2/0 ip address 172.16.1.254 255.255.255.0 no shut Interface fa0/0 ip address 192.168.57.5 255.255.255.0 no shut 1 Interface fa0/1 ip address 192.168.56.5 255.255.255.0 no shut ! router ospf 1 network 0.0.0.0 0.0.0.0 area 0 passive-interface default no passive-interface fa0/0 ! ip route 0.0.0.0 0.0.0.0 192.168.56.6 do wr



Task 2 – R6 Router (Internet Cloud) Configuration

- Configure the Interfaces based on the Logical Diagram
- Configure a Default Static Route. The Next Hop should point towards the IP of the R5Router [192.168.56.5].

We're Sorry; Full Content Access is for Members only.



Initializing the Controllers

1. Initializing vManage – CLI

Task 1 – Configuring the System Component

Configure the System parameters based on the following:

Host-name: vMANAGE1 Organization: XXXXXXX [Organization Name] System-IP: 10.1.254.1 Site ID: 254 vbond Address: 172.16.1.2 Timezone: Based on the appropriate Timezone

Note: Default username/Password: admin/admin

```
config
```

```
!
system
host-name vMANAGE1
system-ip 10.1.254.1
site-id 254
organization-name XXXXXX
clock timezone Asia/Kolkata
vbond 172.16.1.2
!
commit
```

Task 2 - Configure the VPN parameters

Configure the VPN parameters based on the following: vpn 0 - Interface eth1 - IP Address: 172.16.1.1/24 - Tunnel Interface - Tunnel Services (All, NetConf, SSHD) - Default Route: 172.16.1.254

vpn 512 - Interface eth0

- IP Address: 192.168.0.51/24



config ! vpn 0 no interface eth0 interface eth1 ip address 172.16.1.1/24 tunnel-interface allow-service all allow-service netconf allow-service sshd no shut ip route 0.0.0.0/0 172.16.1.254 !

vpn 512 interface eth0 ip address 192.168.0.51/24 no shut !

commit



2. Initializing vBond – CLI

Task 1 – Configuring the System Component

Configure the System parameters based on the following:

Host-name: vBOND Organization: XXXXXXX [Organization Name] System-IP: 10.1.254.2 Site ID: 254 Vbond Address: 172.16.1.2 Timezone: Based on the appropriate Timezone

Note: Default username/Password: admin/admin

config

We're Sorry; Full Content Access is for Members only

- Tunnel Interface

- Tunnel Services (All, NetConf, SSHD)

- Default Route: 172.16.1.254

vpn 512 - Interface eth0

- IP Address: 192.168.0.52/24



config !

vpn 0 no interface eth0 interface ge0/0 ip address 172.16.1.2/24 tunnel-interface encapsulation ipsec allow-service all allow-service netconf allow-service sshd no shut ip route 0.0.0/0 172.16.1.254 !

vpn 512 interface eth0 ip address 192.168.0.52/24 no shut !

commit



3. Initializing vsmart – CLI

Task 1 – Configuring the System Component

Configure the System parameters based on the following:

Host Orga Syste Site	t-name: vSMART1 anization: XXXXXXX [Organization Name] em-IP: 10.1.254.3 ID: 254
Tin	
No	
со 1	
sy	
hc sv	
sit	
or clu	
vb	
! со	We're Sorry; Full Content Access is for
	Members only
Ta	WEINDERS ONLY
Co	
vpi	
- IF - Ti	
- TI	
- 0	
vpi - IF	

config !

vpn 0 no interface eth0 interface eth1 ip address 172.16.1.3/24 tunnel-interface allow-service all allow-service netconf allow-service sshd no shut ip route 0.0.0/0 172.16.1.254 !

vpn 512 interface eth0 ip address 192.168.0.53/24 no shut ! commit



Installing Enterprise Certificate Server (Windows 2008 server)

Task 1 - Configure the Interfaces

First Ethernet Interface: IP Address: 192.168.0.54 Subnet Mask: 255.255.255.0

Third Ethernet Interface: IP Address: 172.16.1.4 Subnet Mask: 255.255.255.0 **Default Gateway: 172.16.1.254**

Task 2 - Configure the Timezone and Time

Configure the appropriate Timezone and Date/Time on the Windows Server. (Date/Time should be exactly same as on controllers – very important)

Task 3 - Installing the Enterprise Root Certificate Server

Step1: Open server Manager -> Roles -> Add Roles -> Select the "**Active Directory Certificate Services**" and click **Next**

Step2: Select "Certification Authority Web Enrolment" and click Next

Step3: Leave it as Standalone and click Next

Step4: Leave it as Root CA and click Next

Step5: Leave "Create a new private key" and click Next

Step6: Leave the default for the Cryptography for CA and click **Next**

Step7: Set the Common name as NETTECH-CA and click Next

Step8: Leave the default for the Validity Period and click Next

Step9: Click Install





Initializing vMANAGE – GUI

Task 1 – Organization name & vBond Address

- Log into the vManage from the Server by browsing to https://192.168.0.51:8443 using a username of admin and a password of admin.
- Navigate to Administration -> Settings

- Click Edit on the Organization name and set it to Your Organization Name. Confirm the Organization name. Click OK.
- > Click Edit on the vBond address and change it to 172.16.1.2 Confirm and click OK

≡	cisco vManage		▲ 🛔 📣 Ø	admin
H	BASHBOARD MAIN DASHBOARD			
□ ≎	vSmart - 0 😥 WAN Edge	0 vBond - 0 € 1 ⊘ vManage - 1	Reboot 0 Warnin	ng O 1
٩	Control Status (Total 0)	Site Health (Total 0)	nsport Interface Distribution	
Û	Control Up 0	Full WAN Connectivity O sites	0 Mbps Mbps - 100 Mbps	0
*	Administration 0	Partial WAN Connectivity 0 sites 10	0 Mbps - 500 Mbps	0

We're Sorry; Full Content Access is for Members only

Task 2 - Configure Controller Certificate Authorization as Enterprise Root

÷	\rightarrow (C A Not secure 192.168.0.51:8443/index.html#/app/adminis	tration/settings			Ð	* 💡	* 0
≡	ol ci	sco VManage		•	Ê	<u>_</u>	?	admin
		ADMINISTRATION SETTINGS						
□		Organization Name					View	Edit
\$		vBond	172.16.1.2 : 12346				View	Edit
٩		Email Notifications	Disabled				View	Edit
ŝ		Hardware WAN Edge Certificate Authorization	Onbox				View	Edit
*		Controller Certificate Authorization	Cisco					
1.		Certificate Signing by: O Cisco Automated (Recommended)	Symantec Automated Manual	Enterprise Root Certificate				
		Certificate					Select	t a file
		1						

Task 3 - Download and Install Enterprise Root Certificate

- Log in to windows 2008 server machine
- > Open Google Chrome and browse to http://192.168.0.54/certsrv
- Click "Download Root Certificate".
- ➢ Select "Base 64".
- Click "Download CA Certificate".

Microsoft Active Directory Certificate Services -- NETTECH-CA

Download a CA Certificate, Certificate Chain, or CRL

To trust certificates issued from this certification authority, install this CA certificate.

To download a CA certificate, certificate chain, or CRL, select the certificate and encoding method.

CA certificate:

Current [NETTECH-CA]

Enc

Ins Dov Dov Dov

Ĩ

We're Sorry; Full Content Access is for

Members only

- > Open Explorer and navigate to the downloads folder.
- > Change the name of the Downloaded file "Certnew" to "RootCert".
- > Open the "**RootCert.cer**" file using Notepad.
- Copy using CTRL-A and CTRL-C.



We're Sorry; Full Content Access is for Members only



ADMINISTRATION | SETTINGS

Certificate Signing by: Cisco Automated (Recommended) Symantec Automated Certificate	oriz	oriza	atio	on							Ci	sc	0																																															
Certificate BEGIN CERTIFICATE MIIDBTCCAe2gAwIBAgIQYYkFCYNwb45On0LEB7oi/DANBgkqhkiG9w0BAQUFADAV MRMwEQYDVQQDEwpORVRURUNILUNBMB4XDTIxMDQwNzA4MzMyOVoXDTI2MDQwNzA4 NDMyN1owFTETMBEGA1UEAxMKTkVUVEVDSC1DQTCCASIwDQYJKoZIhvcNAQEBBQAD ggEPADCCAQoCggEBAK1XQbFpL5VVXS2WzZ13rAAVwZjetEqQ6icvaShZD/nexz2c MypT5EuuYi0ZgORz1o+Y0dYeoaJnBVbS6o22QQK99PbUnhUM7pbfkahjd3+IKHNj /x19fdvhMLtRm6J04+10iCYhYEO46UDLLJJS3EZfByRI7GWWZutzUZRBqXeQK50 eUAjZdbavtBoAuGzFL7yvSIbv6MasOVVTVOm4FNbnTN9/pmpd04BEQqiIY7ZXBxe YyWxinvCH6gPZf0VV11B02ZqOHjfgh7G3FuxKGU8i3brTQicUNFmXg6Bck00ZAx7 1TA6eRQ1RJWdOuBilAVh+3M7Y+36ILoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSIb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPY0ODqQa8eox9aEe+BIss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4IYqgy 0gur232HLWJIrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+IKdAvgL	o A	ico Aut	utom	mate	ed (I	Rec	om	mer	ndeo)	(C	5	Sy	yr	m	a	nt	te	ec	: A	٩u	ute	to	om	na	ate	ec	d	C)	N	/ a	٩n	ıU	al		(0	E	Ēr	nt	e	e r j	рі	ri	se	e	R	{c	00	ot	C	Ce	eı	rt	tif	fic	ca	te
BEGIN CERTIFICATE MIIDBTCCAe2gAwIBAgIQYYkFCYNwb450n0LEB7oi/DANBgkqhkiG9w0BAQUFADAV MRMwEQYDVQQDEwp0RVRURUNILUNBMB4XDTIxMDQwNzA4MzMy0VoXDTI2MDQwNzA4 NDMyN1owFTETMBEGA1UEAxMKTkVUVEVDSC1DQTCCASIwDQYJKoZIhvcNAQEBBQAD ggEPADCCAQoCggEBAK1XQbFpL5VVXS2WzZ13rAAVwZjetEqQ6icvaShZD/nexz2c MypT5EuuYi0Zg0Rz1o+Y0dYeoaJnBVbS6o22QQK99PbUnhUM7pbfkahjd3+IKHNj /xI9fdvhMLtRm6J04+I0iCYhYEO46UDLLuJjS3EzfByRI7GWWZutzUZRBqXeQK50 eUAjZdbavtBoAuGzFL7yvSIbv6MasOvVTVOm4FNbnTN9/pmpd04BEQqiIY7ZXBxe YyWxinvCH6gPZf0VVI1B02ZqOHjfgh7G3FuxKGU8i3brTQicUNFmXg6Bck00ZAx7 1TA6eRQ1RJWd0uBilAVh+3M7Y+36ILoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSIb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPY00DqQa8eox9aEe+BIss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4IYqgy 0gur23ZHLWJIrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+IKdAvgL																																																												
MRMwEQYDVQQDEwpQVRURUNILUNBMB4S010LED/01/DANBGRQ1105W0DAQ0PADAV MRMwEQYDVQQDEwpQVRURUNILUNBMB4XDTIXMDQwNzA4MzMyOVoXDTI2MDQwNzA4 NDMyN1owFTETMBEGA1UEAxMKTkVUVEVDSC1DQTCCASIwDQYJKoZIhvcNAQEBBQAD ggEPADCCAQoCggEBAK1XQbFpL5VVXS2WzZ13rAAVwZjetEqQ6icvaShZD/nexz2c MypT5EuuYi0ZgORz1o+Y0dYeoaJnBVbS6o22QQK99PbUnhUM7pbfkahjd3+IKHNj /XI9fdvhMLtRm6J04+I0iCYhYEO46UDLLuJjS3EZfByRI7GWVZutzUZRBQXeQK50 eUAjZdbavtBoAuGzFL7yvSibv6MasOvVTVOm4FNbnTN9/pmpd04BEQqiIY7ZXBxe YyWxinvCH6gPZf0VVI1B02Zq0Hjfgh7G3FuxKGU8i3brTQicUNFmXg6Bck00ZAx7 1TA6eRQ1RJWd0uBiIAVh+3M7Y+36ILoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSIb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPY0ODqQa8eox9aEe+BIss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4IYqgy 0gur23ZHLWJIrD8qG6ELPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+IKdAvgL	lwb/	Nwb45	4500	n01 [CD7/	ni/D/		aka	ubkić	0.4	0.0	۸.	-	IF		٨٢		v	,																																									
NDMyN1owFTETMBEGA1UEAxMKTkVUVEVDSC1DQTCCASIwDQYJKoZlhvcNAQEBBQAD ggEPADCCAQoCggEBAK1XQbFpL5VVXS2WzZ13rAAVwZjetEqQ6icvaShZD/nexz2c MypT5EuuYi0ZgORz1o+Y0dYeoaJnBVbS6o22QQK99PbUnhUM7pbfkahjd3+lKHNj /xl9fdvhMLtRm6J04+l0iCYhYEO46UDLLuJjS3EZfByRl7GWWZutzUZRBqXeQK50 eUAjZdbavtBoAuGzFL7yvSlbv6MasOvVTVOm4FNbnTN9/pmpdO4BEQqilY7ZXBxe YyWxinvCH6gPZf0VV11B02ZqOHjfgh7G3FuxKGU8i3brTQicUNFmXg6Bck00ZAx7 1TA6eRQ1RJWdOuBilAVh+3M7Y+36lLoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSlb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPY0ODqQa8eox9aEe+Blss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4lYqgy 0gur23ZHLWJIrD8qG6LPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+lKdAvgL	ILUN	NILUNE	NBME	IB4X	(DTI)	xMD	QW	NzA	4Mz	:My	юв (0V	AC (0)	ν XD	лс ОТ	TI:	ац 121	M	D	Q١)w	/N	lz,	A	44	1																																			
ggEPADCCAQoCggEBAK1XQbFpL5VVXS2WzZ13rAAVwZjetEqQ6icvaShZD/nexz2c MypT5EuuYi0ZgORz1o+Y0dYeoaJnBVbS6o22QQK99PbUnhUM7pbfkahjd3+lKHNj /xl9fdvhMLtRm6J04+l0iCYhYEO46UDLLuJjS3EZfByRl7GWWZutzUZRBqXeQK50 eUAjZdbavtBoAuGzFL7yvSlbv6MasOvVTVOm4FNbnTN9/pmpd04BEQqilY7ZXBxe YyWxinvCH6gPZf0VV11B02Zq0Hjfgh7G3FuxKGU8i3brTQicUNFmXg6Bck00ZAx7 1TA6eRQ1RJWdOuBilAVh+3M7Y+36lLoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSlb3DQEBBQUAA4lBAQAZAYoVwTL3 8EWH9dPY0ODqQa8eox9aEe+Blss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4lYqgy 0gur23ZHLWJIrD8qG6eLPGfdLAXRjJtlKTHypWvPba+tR2e9iD+qc7xG+lKdAvgL	TkV	KTkVU	/UVE	EVDS	SC1[DQT	CCA	SIW	/DQY	JK	oZI	lhv	/cl	N	IA	٩Q)E	BB	BC	Q	A	D	1																																					
MypT5EuuYi0ZgORz1o+Y0dYeoaJnBVbS6o22QQK99PbUnhUM7pbfkahjd3+lKHNj /xl9fdvhMLtRm6J04+l0iCYhYEO46UDLLuJjS3EZfByRl7GWWZutzUZRBqXeQK50 eUAjZdbavtBoAuGzFL7yvSlbv6Mas0vVTVOm4FNbnTN9/pmpdO4BEQqilY7ZXBxe YyWxinvCH6gPZf0VV11B02ZqOHjfgh7G3FuxKGU8i3brTQicUNFmXg6Bck00ZAx7 1TA6eRQ1RJWdOuBilAVh+3M7Y+36lLoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSlb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPY0ODqQa8eox9aEe+Blss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4lYqgy 0gur23ZHLWJIrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+lKdAvgL	5VV)	_5VVXS	XS2W	WzZ	(13r/	AAV	wZje	etEq	IQ6io	va	Sh	ZD,	/n	ne	ex	ΧZ	20	2																																										
VXI9fdVhMLtkm6J04+f0fcVhYE0460DLLUJJS3E2fByR/7GWW20f202RBQXeQk50 eUAJZdbavtBoAuGzFL7yvSlbv6MasOvVTVOm4FNbnTN9/pmpd04BEQqiIY7ZXBxe YyWxinvCH6gPZf0VVI1B02ZqOHjfgh7G3FuxKGU8i3brTQicUNFmXg6Bck00ZAx7 1TA6eRQ1RJWd0uBilAVh+3M7Y+36lLoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSlb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPY00DqQa8eox9aEe+Blss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4lYqgy 0gur23ZHLWJIrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7XG+lKdAvgL	nBV	JnBVb	bS60	0220	QQK	.99P	bUr	ihUN	M7pl	ofk	ahj	d3	+	IK	(H		Nj																																											
YyWxinvCH6gPZf0VVI1B02Zq0Hjfgh7G3FuxKGU8i3brTQicUNFmXg6Bck00Zx7 1TA6eRQ1RJWd0uBilAVh+3M7Y+36lLoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSlb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPY00DqQa8eox9aEe+BIss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4lYqgy 0gur23ZHLWJIrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7Xg+IKdAvgL			VTVC	/J536 0m/		bnTN			dO4		Bq. Ogi	xe IV	27	ικ. 7 γ	VD VF		v 0																																											
1TA6eRQ1RJWdOuBilAVh+3M7Y+36lLoRicFEiV0CAwEAAaNRME8wCwYDVR0PBAQD AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR0OBBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSlb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPYOODqQa8eox9aEe+BIss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4lYqgy 0gur23ZHLWJIrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+lKdAvgL	ah7	ifah7G	/G3Ft	uxK	GU8	i3br	TOi	cUN	(Fm)	(a6	Bcl	k0(02	ZA	A)	x7	7 7																																											
AgGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFLJDzRr3qutCmboYviyVCUqX jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSlb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPY00DqQa8eox9aEe+BIss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4IYqgy 0gur23ZHLWJIrD8qG6eLPGfdLAXpjJtlkTHypWvPba+tR2e9iD+qC7xG+IKdAvgL	36IL	+36 Lo	oRic	FEi	VOC/	AwE	AA	aNR	ME8	wC	wY	D\	VF	RO	OF	PE	BA	Q)D	D																																								
jURfMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSlb3DQEBBQUAA4IBAQAZAYoVwTL3 8EWH9dPYOODqQa8eox9aEe+BIss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4lYqgy 0gur23ZHLWJIrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+lKdAvgL	3Af8	1BAf8w	BwHQ	QYD	VRO	OBB	YEF	FLJE	DzRr	3qı	utC	mb	bo	οY	٢v	viy	٧٧	CI	U	Jq	Х																																							
8EWH9dPYOODqQa8eox9aEe+BIss7+V+vGk3gqqiSkfwLXwaNQBzkH30DWg4lYqgy 0gur23ZHLWJlrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+lKdAvgL	JEAN	gEAM	MAOG	GCS	SqGS	3Ib3I	DQE	BBC	QUA	441	BA	QA	١Z	ΖA	٩Y	Yo	V	W	Τl	Ľ	3																																							
0gur23ZHLWJlrD8qG6eLPGfdLAXRjJtlkTHypWvPba+tR2e9iD+qC7xG+lKdAvgL	s7+\	ss7+V+	V+vG	3k3g	gqqi	Skfw	۱LX	waN	IQBz	kН	30[DW	٧g	j 4	ŧŊ	Yc	qg	y																																										
	RjJtl	(RjJtlk)	kTHy	ypW	/vPb	a+tR	{2e	9iD+	-qC7	xG	+lK	dA	٩v	gl	L	-																																												
8Kyx/OMEg4hi/9HjDVU4sudFbeeHOPwa3MDTMf1RcgWmFl+MY7HzvwLkPq4ApJXD	HOP	eHOPw	wa31	MD.	TMf	1Rcc	gWr	nFl+	+MY	7H2	ZVW	/Lk	(P	°P	4	4A	۰p	JX	XD	Ď																																								
W/FPb/NCGeebUWytgCSFE620X10G5GEZpX5VnZaCGlotZ/TWjUUSIPFgZpMXX3DW	JG50	770ov	GEZP	2X5V	vnza	CGIC	otZ7	'TWJI	UUSI	PF	gzp		іх) шь	Xa	31	D\	W																																											

ADMINISTRATION | SETTINGS



Task 4 - Generate a CSR for vManage

- > Navigate to Configuration -> Certificates -> Controllers -> vManage -> Generate CSR
- > It will open a window with the CSR. Copy by using **CTRL-A** and **CTRL-C**.

🕸 со	NFIGURATION CERTIFIC	CATES						1	Install Cert	tificate
WAN	Edge List Controllers									
► Ser	d to vBond									
									0	98
Q			Search Options $\mathbf{\vee}$						Total	Rows: 1
\rightarrow	Operation Status	Controller Type	Hostname	System IP	Site ID	Certificate Serial	Expiration Date	uuid	vEdge Lis	
>	N/A	vManage	vMANAGE1	10.1.254.1	1	No certificate installed	-	19ec5	Sync	
									View CSR View Certifi Generate CS Reset RSA Invalidate	cate SR

We're Sorry; Full Content Access is for Members only



www.nettechcloud.com