**Purpose:**

This Document explains how to configure Disjoint Layer2 in UCS, which is already in Production.

**Audience:**

VMware team and Network Team

**Pre-Requisites:**

1. Identify free ports on UCS and switch for cabling.
2. Cabling is done for new repnet connectivity.
3. Export list of VLAN’s in UCS environment (both prod and repnet).
4. Work with network team to double verify prod and repnet vlans.
5. Make sure Vlans are in standard naming convention. (Important for script to run)
6. Export List of VM’s in environment which we are going to make change.
7. Work with unix and windows operations team to perform pre-test on VM’s.
8. Make sure VLAN Groups Prod and Repent are available in UCS. If not create one.

**During the Change window:**

**Scenario1 (No existing Port channel in UCS):**

**Part 1 – Creating port channel and moving all Vlans**

1. Login to UCSM which we want to make change.
2. Move to LAN tab -> LAN Cloud -> Fabric A - > Port Channels.
3. Right click and select Create Port Channel.
4. Enter 1 for ID and Prod as name and say next.
5. Add one uplink to port channel and make sure that is configured on network side as well.
6. When network team confirms other uplink is ready, add it to port channel.
7. Move to LAN tab -> LAN Cloud -> VLAN Groups -> Vlan Group Prod-Mgmt
8. Right Click Edit Vlan Group Members and select all Vlans (prod, mgmt and Repnet ) which are in use.
9. Say next, do not make any change in Add uplink ports window.
10. Click on Next and add Prod Port channel 1 and finish.
11. Now move to LAN tab -> LAN Cloud -> Fabric B - > Port Channels and repeat step 3- step 10.

**Part 2 – Creating Repnet port channel and moving Repnet Vlans:**

1. Move to LAN tab -> LAN Cloud -> Fabric A - > Port Channels.
2. Right click and select Create Port Channel.
3. Enter ID as 2 and name as Repnet and say next.
4. Add one uplink to port channel and make sure that is configured on network side as well.
5. When network team confirms other uplink is ready, add it to port channel.
6. Repeat the same steps 1-6 for creating port channel in Fabric B as well.
7. Run below script, which will remove Repnet vlans from Prod vlan group and add to Repnet vlan group. If any vlan don’t have standard naming convention, rename it before running script.

connect-ucs 10.42.111.10 <# replace correct IP here #>

$currentvlans=@()

$currentVlans = Get-UcsVlan -Type lan -Cloud ethlan -DefaultNet false | Where-Object {$\_.Name -like "\*-HETD-\*"} <# replace HETD with other envrionment code #>

$RepnetVlans = $currentVlans | Where-Object {$\_.Name -like "Repnet-HETD-\*"} <# replace HETD with other envrionment code #>

$prodvnictemplates=get-ucsvnictemplate | Where-object {$\_.descr -like "\*prod\*"}

$prodvlanGroup=get-ucsfabricnetgroup -name Prod-Mgmt

$repnetvnictemplates=get-ucsvnictemplate | Where-object {$\_.descr -like "\*rep\*"}

$repnetvlanGroup=get-ucsfabricnetgroup -name Repnet

Foreach ($repnetVLAN in $repnetVLANs){

$vlanName=$null

$vlanName=$repnetvlan.name

$prodvlanGroup | Remove-ucsfabricpooledvlan -Name $vlanName

"[REMOVE] Removing $($vlanName) to $($prodvlangroup.name)"

$repnetvlanGroup | Add-ucsfabricpooledvlan -Name $vlanName

"[ADD] Adding $($vlanName) to $($repnetvlangroup.name)"

foreach ($prodvnictemplate in $prodvnictemplates){

$prodVnicTemplate | Remove-UcsVnicInterface -name $vlanName -Force

"[REMOVE] Removing $($vlanName) from $($prodvnictemplate.name)"

}

foreach ($repnetvnictemplate in $repnetvnictemplates){

$repnetVnicTemplate | Add-ucsfabricpooledvlan -Name $vlanName

"[ADD] Adding $($vlanName) from $($repnetvnictemplate.name)"

}

}

1. Move to LAN tab -> LAN Cloud -> VLAN Groups -> Vlan Group Repnet.
2. Right Click Edit Vlan Group Members and click Add port channel in Left window, add Port-Channel 2(repnet) from both A and B, click Finish.

**Scenario2 (One Port channel Exist in UCS):**

**Part 1 – Creating port channel and moving all Vlans**

1. Login to UCSM which we want to make change.
2. Move to LAN tab -> LAN Cloud -> VLAN Groups -> Vlan Group Prod-Mgmt
3. Right Click Edit Vlan Group Members and select all Vlans (prod, mgmt and Repnet ) which are in use.
4. Say next, do not make any change in Add uplink ports window.
5. Click on Next and add Prod Port channel 1 for both Fabric and finish.
6. Follow same steps in scenario-1 /Part2 to separate repnet Vlans.

**Post activity:**

1. Inform network team to cleanup all repent vlans from prod switches.
2. Inform Windows and Unix team to perform health check on VM’s.