

Problem Description:

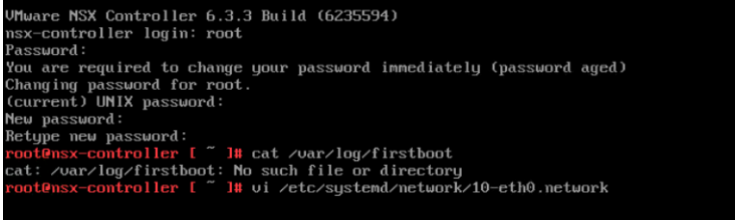
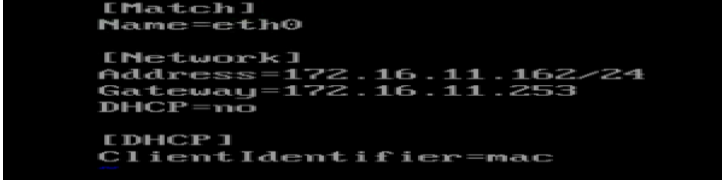
NSX controllers' deployment is failing on NSX 6.3.3 version. The controller shows "Deploying" status for around 30-45 mins and later failed/VM is deleted although your entire NSX configuration looks good. During the deployment state, the controller VM is deployed and powered on. But, it is not assigned with IP Address which is specified in the IP Pool.

It looks like that "**root password expired**" issue with NSX controller VM. The NSX Controller is built-on Photon OS and root password age is set 90 days. This may be cause for the controller machine unable to assign the IP Address during its customization stage.

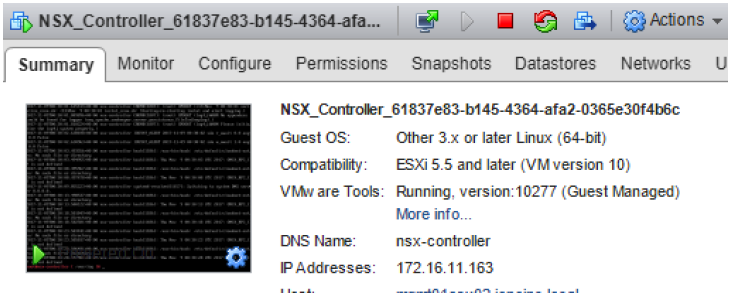
```

NSX_Controller_b6a3e1c5-77dc-44e1-a196-4fcfb0459d0c
Guest OS:    Other 3.x or later Linux (64-bit)
Compatibility: ESXi 5.5 and later (VM version 10)
VMware Tools: Running, version:10277 (Guest Managed)
More info...
DNS Name:    nsx-controller
IP Addresses:
Host:        lab7-esxi02.lab7.
  
```

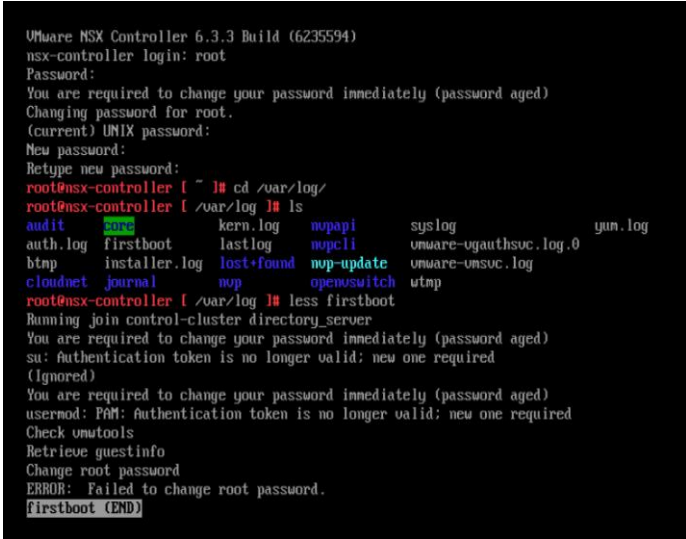
Work Around:

<ol style="list-style-type: none"> 1. After the controller VM is deployed and powered on, connect the VM and Launch web console. 	
<ol style="list-style-type: none"> 2. Enter the username as "root" and password "vmware" 	
<ol style="list-style-type: none"> 3. Enter the new password and note down. (must be 8 chrs and one upper, lower and special chr) 	
<ol style="list-style-type: none"> 4. Type the following command: <pre>vi /etc/system/network/10-eth0.network</pre> 	 <pre> VMware NSX Controller 6.3.3 Build (6235594) nsx-controller login: root Password: You are required to change your password immediately (password aged) Changing password for root. (current) UNIX password: New password: Retype new password: root@nsx-controller [~]# cat /var/log/firstboot cat: /var/log/firstboot: No such file or directory root@nsx-controller [~]# vi /etc/systemd/network/10-eth0.network </pre>
<ol style="list-style-type: none"> 5. Press "i" to insert text in the vi 6. Type "Address=<ip address/CIDR> 7. Type "Gateway=<gateway ip> 8. Press ESC key 9. Then, press :wq to save the file 	 <pre> [Match] Name=eth0 [Network] Address=172.16.11.162/24 Gateway=172.16.11.253 DHCP=no [DHCP] ClientIdentifier=mac </pre>

10. Then type “reboot” command for rebooting the controller VM and wait for few minutes. Then you can see the IP address is assigned to the Controller VM.



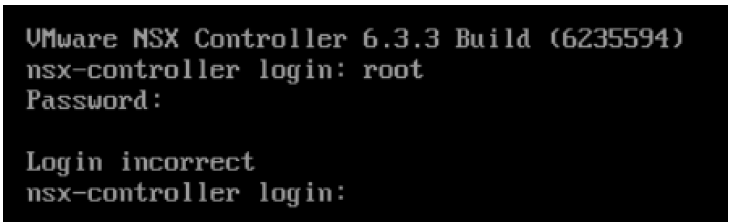
11. You can see the logs /var/log/. I found password expired error on firstboot log file.



12. When I ran the “chage –l root” command in the console, found that “root” password is set to expire in 90 days. This may be issue that causing the controller VM is not assigned with IP Address.



13. Wait for few minutes (approx. 5 mins) and try to login back to the controller VM thru web console by using “root” account. If the VM is not allowing you to login, means that Controller VM is joined to the controller-cluster.



14. SSH to the controllers VM and enter “admin” as user name and password that you mentioned during the time of deployment.
15. Then type “show controller-cluster status”, you can the VM is joined to the cluster.
16. Repeat the same steps for other Controllers VMs.

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Role                Configured status  Active status
-----
api_provider        enabled            activated
persistence_server  enabled            activated
switch_manager      enabled            activated
logical_manager     enabled            activated
directory_server    enabled            activated
-----
Cluster status from vnet-controller:
-----
Active cluster members
isMaster: true
uuid=31c97e40-0037-42ec-a5a4-eaf9cb627db4, ip=172.16.11.161
uuid=1ab805c4-c8cf-488f-90fe-59944d6351db, ip=172.16.11.162
Configured cluster members
uuid=31c97e40-0037-42ec-a5a4-eaf9cb627db4, ip=172.16.11.161
uuid=1ab805c4-c8cf-488f-90fe-59944d6351db, ip=172.16.11.162

```

17. After all 3 controllers deployed and verify the node status and no error reported anywhere.

NSX Controller nodes

4 Failed

Name	Controller Node	NSX Manager	Managed By	Status	Peers	Software Version
Mgmt-NSX-Ctrns	172.16.11.163 controller-22	172.16.11.65	172.16.11.65	Connected	■ ■ ■	6.3.6235594
Mgmt-NSX-Ctrns	172.16.11.162 controller-21	172.16.11.65	172.16.11.65	Connected	■ ■ ■	6.3.6235594
Mgmt-NSX-Ctrns	172.16.11.161	172.16.11.65	172.16.11.65	Connected	■ ■ ■	6.3.6235594

```

-----
Active cluster members
isMaster: false
Configured cluster members
uuid=31c97e40-0037-42ec-a5a4-eaf9cb627db4, ip=172.16.11.161
uuid=1ab805c4-c8cf-488f-90fe-59944d6351db, ip=172.16.11.162
uuid=53bc3e00-b255-41c0-be91-a4f8dff608b0, ip=172.16.11.163

```