ESX INSTALLATION :

1.Install VMWARE and pick hostip and password

**2.Download ova/ovf file from location to host and register as vm**

**A requirement is we need a host to upload where already ovf tool installed**.

Last login: Fri Sep 11 18:21:17 2020 from nunna-b.invpn.stratus.com

vi://root:syseng01\!@**192.168.61.222tes**/ESX6/RHEL7.1

Opening VMX source: /root/vmx\_template\_files//ESX-VMTemplates/ESX6/RHEL7.1-v11-TPL/RHEL7.1-v11-TPL.vmx

Opening VI target: vi://root@192.168.61.222:443/

Once ova/ovf copied to host , perform register appliance and grep IP through commands

Change password of appliance

**3.AUL\_INSTALL:**

login with new appliance ip and password

copy iso file to /root from share

example : Z:\Aeries\Aeries\_New\ftESX\ftESX-6.7.3\185\\*\*\*\*\*\*.iso

Once file copy successful , use /opt/ft/sbin/ft-install <iso file name> -n

LOGS :

[root@dhcp-192-168-61-230 ~]# /opt/ft/sbin/ft-install ftSys\_for\_ESX\_6.7.3\_185.iso --help

Updating installer...

Performing install...

Usage: ft-install.py [option ]... <repository>

where <repository> is one of:

device - containing an ISO, e.g. "/dev/cdrom"

file - containing an ISO image

url - referencing either an ISO image or its contents

Options:

-h, --help show this help message and exit

-H <host>, --host=<host>

Name or IP of Host to be managed

-a <username>, --admin=<username>

Administrator account [default: root]

-p <password>, --password=<password>

Administrator password

-P, --prompt Prompt for all required values

-N, --noprompt Do not prompt for required values

-n, --nosigcheck disable signature checking

-r, --reinstall reinstall packages

-d, --debug spew debug information to log and/or console

[root@dhcp-192-168-61-230 ~]#

[root@dhcp-192-168-61-212 ~]# /opt/ft/sbin/ft-install ftSys\_for\_ESX\_6.7.3\_185.iso -n

Updating installer...

Current network configuration:

Method : auto

Hostname : dhcp-192-168-61-212

DNS domain :

IP Address/prefix: 192.168.61.212/24

Gateway : 192.168.61.1

DNS Servers : 134.111.18.9 164.152.126.7

1) Set hostname and static IP address

2) Set DHCP hostname

3) Make no network changes

Enter your desired network configuration option: 3

Performing install...

Name or IP address of the host machine[]: 192.168.61.166

Administrative password for 192.168.61.166:

Configuring appliance to communicate with the specified host...

Host 192.168.61.166 is running ESX version 6.7.0-3.73.13885523

This procedure will install Stratus Automated Uptime Layer version 6.7.3-185 on host 192.168.61.166 running ESX version 6.7.0-3.73.13885523.

Please refer to your system documentation before proceeding.

Do you want to continue [Y/n]: y

Do you approve of system health information messages being sent to Stratus over the Internet? [Y/n]: y

Activating port 80 for host upgrades

Appliance software is up to date.

Host system software will be updated.

**Do you want to continue? [Y/n]: y**

Installing to host 192.168.61.166. Please wait...

Setting claimrule 119 for driver ftSys\_msgpt3 to use NMP

Updating the host's system software...

Deactivating port 80 for host upgrades

A host reboot is required to place these updates into service.

Do you want to reboot now [Y/n]:y

[root@dhcp-192-168-61-212 ~]#

Connection will lost now and take lot of time to bring up host and appliance

WE can use **verify\_piviot()** ## checking ping of hostip VerifyHostUp

Once host is up , login to host and appliance **and set\_sync\_speed ()**

**check\_sync\_status()**

**duplex\_state( )**

set\_sync\_speed () Need to see if we can make it dynamic with values

Then next step is to set sync speed and create a raid and wait for all disks are in sync

[root@QA907:~] esxcli storage mpm list

Info

-----------------------------------------------------------------------------

mpm0 : 292968640 blocks (286102 MB) [2/2]

\\_ vmhba0:C0:T0:L0 (10/40/1) [ in\_sync ]

\\_ vmhba1:C0:T0:L0 (11/40/1) [ in\_sync ]

mpm2 : 586061696 blocks (572325 MB) [1/2]

\\_ vmhba0:C0:T3:L0 (10/40/3) [ in\_sync ]

Unused disks:

- vmhba0:C0:T2:L0 (10/40/2)

- vmhba1:C0:T2:L0 (11/40/2)

- vmhba1:C0:T3:L0 (11/40/3)

[root@QA907:~]

-----------------------------------------------------------------------------

mpm0 : 292968640 blocks (286102 MB) [2/2]

\\_ vmhba0:C0:T0:L0 (10/40/1) [ in\_sync ]

\\_ vmhba1:C0:T0:L0 (11/40/1) [ in\_sync ]

mpm1 : 586061696 blocks (572325 MB) [2/2]

| resync=12.8% (75085760/586061696) finish=36.9min (230323K/s)

\\_ vmhba0:C0:T2:L0 (10/40/2) [ in\_sync ]

\\_ vmhba1:C0:T2:L0 (11/40/2) [ in\_sync ]

mpm2 : 586061696 blocks (572325 MB) [2/2]

| resync=12.4% (73239680/586061696) finish=36.4min (234359K/s)

\\_ vmhba0:C0:T3:L0 (10/40/3) [ in\_sync ]

\\_ vmhba1:C0:T3:L0 (11/40/3) [ in\_sync ]

[root@QA907:~] watch esxcli storage mpm list

Every 2s: esxcli storage mpm list 2020-09-17 14:56:12

Info

-----------------------------------------------------------------------------

mpm0 : 292968640 blocks (286102 MB) [2/2]

\\_ vmhba0:C0:T0:L0 (10/40/1) [ in\_sync ]

\\_ vmhba1:C0:T0:L0 (11/40/1) [ in\_sync ]

mpm1 : 586061696 blocks (572325 MB) [2/2]

\\_ vmhba0:C0:T2:L0 (10/40/2) [ in\_sync ]

\\_ vmhba1:C0:T2:L0 (11/40/2) [ in\_sync ]

mpm2 : 586061696 blocks (572325 MB) [2/2]

\\_ vmhba0:C0:T3:L0 (10/40/3) [ in\_sync ]

\\_ vmhba1:C0:T3:L0 (11/40/3) [ in\_sync ]

[root@QA907:~]

**check ft-verify() 🡪 always check this for health status**

with /opt/ft/sbin/ft-verify -D

[root@dhcp-192-168-61-230 ~]# /opt/ft/sbin/ft-verify

ftSys Management Appliance hosted by 192.168.61.231 [PASS]

Host is configured with enough memory [PASS]

Automated Uptime Layer installed on host [PASS]

Host software version matches expected version (6.7.3-184) [PASS]

ftSys Management Appliance firewall settings [PASS]

Host Firmware Boot Type - requires UEFI [PASS]

Host Legacy memory copy BIOS setting [PASS]

ftSys Management Appliance installed on boot volume [PASS]

Multiple paths to storage [PASS]

Network Configuration [PASS]

Hardware Compatibility [PASS]

Host ftServer Uptime Manager Service started [PASS]

Host logs available after reboot [PASS]

DNS Configuration [PASS]

Host BIOS up to date - requires 8.1:77, or better [PASS]

Host BMC up to date - requires Runtime=04.75, or better [PASS]

[root@dhcp-192-168-61-230 ~]#

A verification as build version and all pass ..

If version mismatch , warning but not exit …

But include one **condition /opt/ft/bin/ftsmaint -v 🡪 this version should match with build num**

[root@dhcp-192-168-61-212 ~]# /opt/ft/bin/ftsmaint -v

ftsys-ftsmaint version 6.7.3-185

[root@dhcp-192-168-61-212 ~]#

Then we can proceed else exit saying aul build not matched with installed version

Create new volume mpm2 ? (y/n)^H^C

[root@dhcp-192-168-61-230 ~]# /opt/ft/sbin/mpm\_assist

Storage Enclosures

|-------------------------------------------------------------------------------|

| Enclosure 10/40 |

|-------------------------------------------------------------------------------|

| 10/40/1 mpm0 | 10/40/3 avail | 10/40/5 | 10/40/7 |

| 10/40/2 avail | 10/40/4 | 10/40/6 | 10/40/8 |

|-------------------------------------------------------------------------------|

| Enclosure 11/40 |

|-------------------------------------------------------------------------------|

| 11/40/1 mpm0 | 11/40/3 avail | 11/40/5 | 11/40/7 |

| 11/40/2 avail | 11/40/4 | 11/40/6 | 11/40/8 |

|-------------------------------------------------------------------------------|

Available Disks

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Path Name Size

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10/40/2 vmhba0:C0:T2:L0 600127266816

10/40/3 vmhba0:C0:T3:L0 600127266816

11/40/2 vmhba1:C0:T2:L0 600127266816

11/40/3 vmhba1:C0:T3:L0 600127266816

Disk 10/40/2:

Found partner disk 11/40/2.

Can create new volume mpm1 using disk vmhba0:C0:T2:L0 in 10/40/2 and disk vmhba1:C0:T2:L0 in 11/40/2.

Create new volume mpm1 ? (y/n)n

Volume mpm1 will not be created

Disk 10/40/3:

Found partner disk 11/40/3.

Can create new volume mpm2 using disk vmhba0:C0:T3:L0 in 10/40/3 and disk vmhba1:C0:T3:L0 in 11/40/3.

Create new volume mpm2 ? (y/n)

Download vib files ..

[root@QA907:~] esxcli software vib install -v /tmp/qatools-6.7.3-185.vib --force

Installation Result

Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective.

Reboot Required: true

VIBs Installed: STR\_bootbank\_qatools\_6.7.3-185

VIBs Removed:

VIBs Skipped:

[root@QA907:~]

[root@dhcp-192-168-61-230 ~]# /opt/ft/sbin/ft-verify -D

ftSys Management Appliance hosted by 192.168.61.231 [PASS]

Host is configured with enough memory [PASS]

Automated Uptime Layer installed on host [PASS]

Host software version matches expected version (6.7.3-184) [PASS]

ftSys Management Appliance firewall settings [PASS]

Host Firmware Boot Type - requires UEFI [PASS]

Host Legacy memory copy BIOS setting [PASS]

ftSys Management Appliance installed on boot volume [PASS]

Multiple paths to storage ^[[B[PASS]

Network Configuration [PASS]

Hardware Compatibility [PASS]

Host ftServer Uptime Manager Service started [PASS]

Host logs available after reboot [PASS]

DNS Configuration [PASS]

Host BIOS up to date - requires 8.1:77, or better [PASS]

Host BMC up to date - requires Runtime=04.75, or better [PASS]

ftServer CRUs duplexed [PASS]

[root@dhcp-192-168-61-230 ~]# /opt/f^C

[root@dhcp-192-168-61-230 ~]# /opt/ft/bin/ftsmaint -v

ftsys-ftsmaint version 6.7.3-185

[root@dhcp-192-168-61-230 ~]#