

ةيقرتلا لبق ةحصللا نم ققحتلا ةادأ HyperFlex - HyperV ءم انربب

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ةمدقملا

اقبسم اهتبيقرتو HyperCheck ةمالس نم ققحتلا ةادأ لبيءشت ةيلمع ءنتسملا اءه فصبي يءاذ ققحت تايلمع اءرءال ةءعاسم ةادأ نع ةرابع ةادألا هءه HyperFlex HyperV عاطق ىلع ىلع ةادألا هءه ءعاستو . اهتءورمو ةادألا هءه رارقتسا نامضل HyperFlex ةمظنأ ىلع ةيقابءتسا لعمت يءتلا ةمظنألا ىلع ةيقرتلا لبق امو ءحصللا نم ققحتلا تايلمع ةمءاق ةءمءا ةينقت ماءءتساب ةنايصل او ةيقرتلا تايلمع اءنءا ءقولا ريفوتل HyperFlex ةينقتب HyperFlex.

اهنبيءحت مءبي ةادألا نأ امب . اهماءءتسا لبق امءءاء ةادألا نم راءصلا ءءءل لبيزنءب مق : ءطءالم ةمءهلا ءاققءتلا ءقف ىللا يءؤي ءق مءقألا راءصلا ماءءتسا نإف ، رركءم لكشب

ةم وءملا HX ةمظنأ

- 4.0 و 3.5 و 3.0 HyperFlex ءاراءصلا
 - ةيسايقلا HyperFlex ةعومءم
 - Microsoft Hyper-V في HyperFlex ةعومءم ىلع طقف موعءم
- ءرايز ىءري ، HyperFlex ESXi ةعومءم ىلع HyperCheck لبيءشت ةيفيك : ءطءالم

<https://www.cisco.com/c/en/us/support/docs/hyperconverged-infrastructure/hyperflex-hx-data-platform/214101-hypercheck-hyperflex-health-pre-upgr.html>

همءختست ىتم

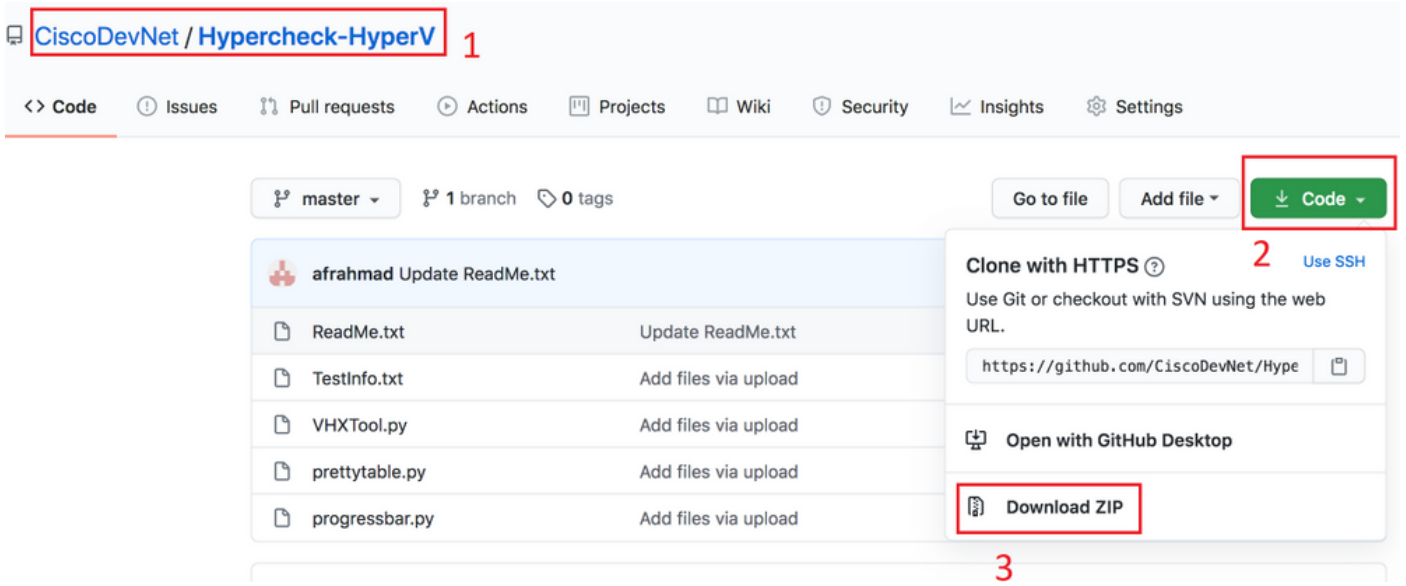
- HyperFlex ءايقرت لبق
- ءءعبو Windows لبيءشتلا ماظن لبق HyperFlex ةمالس نم ققحتلا
- ءلءءملا صارقألا/صارقألا ءاءءءل
- Cisco TAC عم لمءلا ءنع
- ءقو يءيقابءتسالا ةيامءلا صءف

همءختست فيك

لوصءلا ىءري . [إنه](#) Cisco Github Devnet باسء نم HyperFlex-HyperCheck.zip لبيزنء 1. ءوطءلا

تاثي دحت لاول وان يسيحت لارخا يلع يوتحت ةخسن شدا يلع

Cisco Github Devnet باسح نم هليزنت مت يذلا يصنللا جم انربللا طقف مدختسا: ةظحالام



ماظن ةراداب صاخلا IP مادختساب VM (SCVM) نيزختلا مكحت زاهاج يلع هليحتب مق 2 ةوطخلما (CMIP) ةومجمل

HyperCheck-HyperV- master.zip لولكوتورب خسنل - SCP/SFTP/ftp/tftp - ةلضفملا كتيقي رط مدختسا /tmp ليلد يلع

MAC: ةبسنلاب يلع

دلجملا سفن يفي HyperFlex-Hypercheck.zip نأ ديكأت يجرى (رماوألارطس ةهجاو نم SCP ءارج SCP) لولكوتورب ليغشتب موقت شيح نم

```
# scp Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

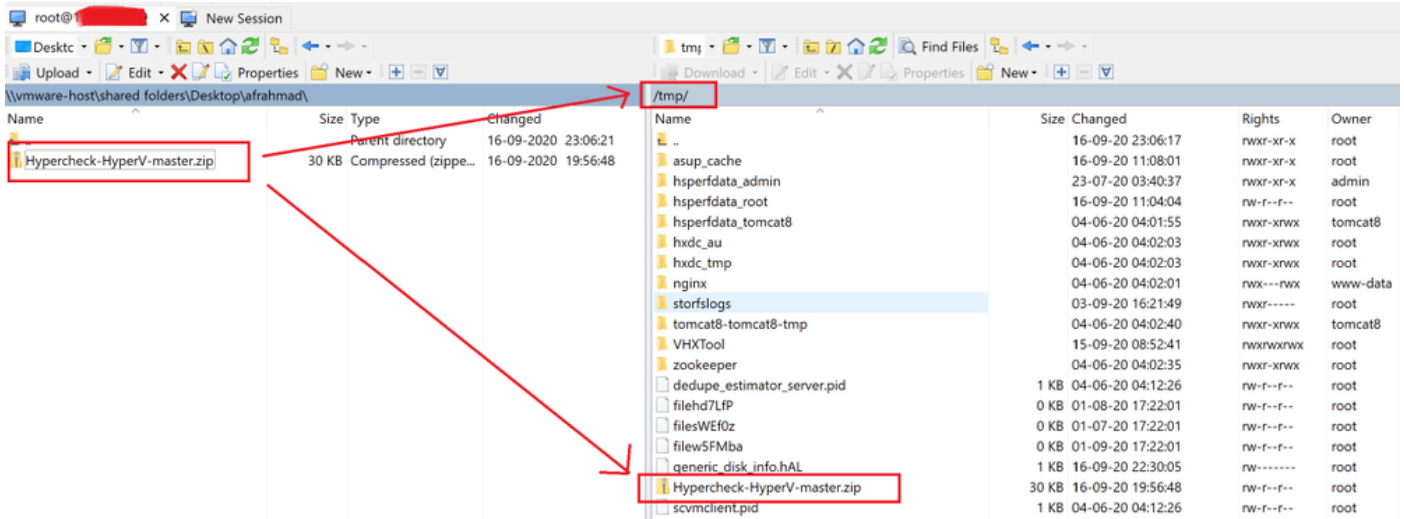
ليلد HX- ةئيبي ف ةومجمللا ماظن ةراداب صاخلا IP ناووع يلع فرعتلل يلي ام مدختسا [HyperFlex ليغشت](#)

```
afrahmad@AFRAHMAD-M-C3RS Desktop $ scp Hypercheck-HyperV-master.zip root@10.10.10.10:/tmp/
HyperFlex StorageController 4.0(1b)
Password:
Hypercheck-HyperV-master.zip
afrahmad@AFRAHMAD-M-C3RS Desktop $ █
```

100% 30KB 40.9KB/s 00:00

Windows: ليغشتلا ماظنل ةبسنلاب

-هاندا حضوم وه امك تافلما لقنل WINSXP لولكوتورب مادختسا اننكمي



3. ةوطخلل HyperCheck-HyperV-master.zip تايوتحم جارختسا

ل /tmp ليلد لىل ربيغتلل `cd /tmp` بتك

```
root@hyper11-stc:~# cd /tmp/
```

تافلما صالختسال `unzip HyperCheck-HyperV-master.zip` بتك

```
root@hyper11-stc:/tmp# unzip Hypercheck-HyperV-master.zip
```

```
Archive: Hypercheck-HyperV-master.zip
67f0d63639785f5c18b8ed35ff789f748157e944
creating: Hypercheck-HyperV-master/
inflating: Hypercheck-HyperV-master/README.md
inflating: Hypercheck-HyperV-master/ReadMe.txt
inflating: Hypercheck-HyperV-master/TestInfo.txt
inflating: Hypercheck-HyperV-master/VHXTTool.py
inflating: Hypercheck-HyperV-master/prettytable.py
inflating: Hypercheck-HyperV-master/progressbar.py
root@hyper11-stc:/tmp#
```

4. ةوطخلل Python VHXTTool جمانرب ذيفنت

`HyperCheck-HyperV-master` ليلد لىل لاقنتال `cd Hypercheck-HyperV-master` بتك

```
root@hyper11-stc:/tmp# cd Hypercheck-HyperV-master
```

يصلنلا جمانربلا ذيفنتل `python vhxtOol.py` بتك

```
root@hyper11-stc:/tmp/Hypercheck-HyperV-master# python VHXTTool.py
```

لوؤسمب ةصاخلا ةعومجملماظن رذج رورم ةملاك ورورملا ةملاك و مدختسملا مسا لخدأ. 5. ةوطخلل
HyperV دن ءوطخلل

```
Please enter below info of Hyper-V Cluster:
Enter the Hyper-V Username(Ex: Domain\Username):
Enter the Hyper-V Password:
Enter the HX-Cluster Root Password:
```

اروف فوقوتى فوسو `[CTRL+Z]` حاتفملا مدختسأ يصلنلا جمانربلا ذيفنت فاقيل: ةطخال

اتبثم Active Directory ناك اذامع لوؤستلاب `HyperFlex-Hypercheck` ءادأ كبلاطتس. 6. ةوطخلل

كثيبي ف ديح ندع ىل ع

مسيس. انه (ال/م/ن) ل اخلال ن ع رظنل لضغب يصنل اجم انربل ل ليغشت رمتسيسي: عطلال م ريذحت ةم لكك هاندأ ةلاس رل اضرع

زهجالا في DNS مداوخ / Active Directory مداوخ ةفاك ني مضت مدعب ةيارد ىل ع نوكت نا اءارل " في (ةيراع ةيندعم) ةيدام تانال ع اءاد كانه نوكي نا ب جي. HyperFlex Datastore ةيضا رتالال كتيبي

اهب ةصاخلا ققحتل تاي لمع ليغشت ب HyperFlex-Hypercheck ةادأ موقت 7. ةوطخل ةعوم اظن في ةعجم ال دق ال ددع بسح ققحتل 10 ىل 5 ني ب ام ذي فننل ق رغتسيسي

اهوارا مت يتل تاققحتل / تارخلم مهف 8. ةوطخل

HyperFlex-HyperCheck ةادأ ةطساوب ةيلا تاققحتل اءارل متي

Hyperflex Checks: (Below checks are performed on all the storage controller VMs)

Cluster services check - Verifies the status of storfs, stMgr and stNodeMgr services.

Enospc state check - Checks if the cluster space usage is above the warning threshold or no.

Zookeeper check - Checks whether the Zookeeper is running or no.

Exhibitor check - Verifies the status of the Exhibitor service which manages the ZK.

System Disks Usage - Checks if /sdal, var/stv and /var/zookeeper is less than 80%.

HDD health check - Reports if you have any blacklisted disk in your cluster.

DNS check - Checks whether DNS is configured and reachable.

Timestamp check - Checks if all the controller VMs have the exact same time.

NTP sync check - Checks whether NTP is reachable from the storage controller VMs and synced.

Check package & versions - Checks for packages and versions on Storage Controller VMs.

Check Iptables count - Checks for Iptables count on and ensure it is same on all Storage Controller VMs.

Cache Disks check - Checks the number of Cache Disks.

Extra pnodes check - Looks for any extra/duplicate pnode entries in the cluster.

Memory usage check - Checks for available memory more than 2GB.

Incidence of OOM in the log file - Checks for any previous incidence of Out Of Memory Condition.

Check permissions for /tmp - Checks if the /tmp permissions are set correctly.

Check Cluster Access Policy - Checks the Configured Cluster Access Policy

CMIP Hostname - Check if the clustermanagementip has hostname defined

Check domain join health - checking domain join health of the node.

HYPER-V Checks: (Below checks are performed on each HyperV node)

Hostname - check and print the hostname of the node.

Cluster Failover - check and ensure cluster failover is enabled.

Hyper-V Role - Check and ensure HyperV role is enabled.

Node State - Checks the state of the node.

Network Interfaces State - Checks the Network Interfaces State of the node.

Remote Management Enabled - Check if the Remote Management is enabled on the node.

MTU for Storage Data Network - Check MTU for the Storage Data Network of the node.

Domain and forest details - Check the Domain and forest details of the cluster.

Host file entries - Check if the host file have correct entries.

Check Adapter details - Check Adapter details of the node.

Drivers test - Check the status of minifilter drivers.

SMB Test - Checking SMB Path reachability from the node.

VMMS - Checking the VMMS Service status

وه امك اه ل ع ل و ص ح ل ا ك ن ك م ي. يصنل اجم انربل تارخلم ن ع ريرقت ىل ع ل و ص ح ل ا 9. ةوطخل هاندأ ا ح ص و م

اضرياً يوتحتس يتلاو اهلېمحتو نېزخت معد ةمزح ءاشن| طقف كنكمي ،كلذ نم ال دب
Hypercheck tar ريرقت فلم ظفح متي /var/log/springpath و /tmp/Hypercheck-HyperV-
master. كلذل ،كلذ نم ال دب
HyperCheck tar ريرقت ىلع

تحت /var/log/springpath. Hypercheck ريرقتل tar فلم ظفح متي

راسملا ىل| VHX_REPORT_2020_08_29_08_40_20.tar خسن متي - tar ريرقتل فلم لاثم
/var/log/springpath

HyperFlex- ةادأ ةطساوب اهؤاشن| مت يتلا تافللملا ةعجارمل | GREP VHX_Report ls -l عونلل
Hypercheck

Under /var/log/springpath,

```
root@hyper11-stc:/var/log/springpath# ls -l | grep VHX_Report
-rw-r--r-- 1 root root 370K Aug 29 08:47 VHX_Report_2020_08_29_08_40_20.tar
root@hyper10-stc:/var/log/springpath#
```

Under /tmp/Hypercheck-HyperV-master

```
root@hyper11-stc:/tmp/Hypercheck-HyperV-master# ls -ltrh
total 576K
-rwxrwxrwx 1 root root 53K Apr 10 2018 prettytable.py
-rwxrwxrwx 1 root root 1.4K Jan 22 2019 progressbar.py
-rwxrwxrwx 1 root root 1.6K Aug 28 00:27 ReadMe.txt
-rwxrwxrwx 1 root root 75K Aug 28 06:32 VHXTool.py
-rwxrwxrwx 1 root root 3.5K Aug 28 06:46 TestInfo.txt
-rw-r--r-- 1 root root 49K Aug 29 08:40 prettytable.pyc
-rw-r--r-- 1 root root 1.8K Aug 29 08:40 progressbar.pyc
drwxr-xr-x 2 root root 4.0K Aug 29 08:47 VHX_Report_2020_08_29_08_40_20
-rw-r--r-- 1 root root 370K Aug 29 08:47 VHX_Report_2020_08_29_08_40_20.tar
```

HyperCheck- لجمس ةمزح يف تالجمسلاو تافللملا

```
root@hyper11-stc: tmp/Hypercheck-HyperV-master # cd VHX_Report_2020_08_29_08_40_20
root@hyper11-stc: tmp/Hypercheck-HyperV-master # ls -ltrh
-rw-r--r-- 1 root root 27K Aug 29 08:44 VHX_Report_10.8.16.65.txt
-rw-r--r-- 1 root root 27K Aug 29 08:45 VHX_Report_10.8.16.66.txt
-rw-r--r-- 1 root root 27K Aug 29 08:47 VHX_Report_10.8.16.67.txt
-rw-r--r-- 1 root root 101K Aug 29 08:47 VHX_Tool_Main_Report_2020-08-29_08-47-43_HYPER11-
SMB.txt
-rw-r--r-- 1 root root 186K Aug 29 08:47 VHXTool_2020-08-29_08-40-20.log
```

TAC عم هتكراشم و HX_YYYY_MM_DD_HH_MM_SS.tar ري دصت: 10 ةوطخل

مادختساب HyperCheck تالجمس ري دصتل كي دل ةلضفملا ةقيرطال مدختسأ
يوتحت يتلا ةمظنألا معد ةمزح لي زنت ةطاسبب كنكمي و SCVM نم SCP/SFTP/FTP/TFTP
ل VHX_REPORT. ةمزح ىلع

دقع 3 تاذ ةومجم نم VHXTool جارخا جذومن. 11 ةوطخل

Please enter below info of Hyper-V Cluster:

Enter the Hyper-V Username(Ex: Domain\Username): hx.local\hxadmin

Enter the Hyper-V Password:

Enter the HX-Cluster Root Password:

Is the Active Directory installed on Physical (bare metal) in your Environment (Enter Yes/No):
yes

Note: Please be aware that all Active Directory Servers/ DNS Servers should not be nested in Hyperflex datastore virtual machines. There should always be physical (bare metal) ADs in your environment.

SMB Name: HYPER10-SMB

SSH connection established to HX Node: 10.8.16.65

SSH connection established to HX Node: 10.8.16.66

SSH connection established to HX Node: 10.8.16.67

HX Cluster Nodes:

Nodes	Eth0 IP Address	HostName	Eth1 IP Address	Eth1 MTU	Cluster Mgmt IP
1	10.8.16.65	hyper10-stc	10.8.18.65	9000	HYPER10-MGMT-IP.hx.local
2	10.8.16.66	hyper11-stc	10.8.18.66	9000	HYPER10-MGMT-IP.hx.local
3	10.8.16.67	hyper12-stc	10.8.18.67	9000	HYPER10-MGMT-IP.hx.local

HX Controller: 10.8.16.65

Cluster services check [#####] COMPLETE
ZooKeeper & Exhibitor check [#####] COMPLETE
HDD health check [#####] COMPLETE
Pre-Upgrade Check [#####] COMPLETE
Hyper-V check [#####] COMPLETE

HX Controller: 10.8.16.66

Cluster services check [#####] COMPLETE
ZooKeeper & Exhibitor check [#####] COMPLETE
HDD health check [#####] COMPLETE
Pre-Upgrade Check [#####] COMPLETE
Hyper-V check [#####] COMPLETE

HX Controller: 10.8.16.67

Cluster services check [#####] COMPLETE
ZooKeeper & Exhibitor check [#####] COMPLETE
HDD health check [#####] COMPLETE
Pre-Upgrade Check [#####] COMPLETE
Hyper-V check [#####] COMPLETE

HX Controller: 10.8.16.65

Test Summary:

Name	Comments	Result
Cluster services check		

```

PASS | Checks storfs, stMgr, sstNodeMgr
service running on each node. |
+-----+
+-----+
| Enospc state check |
PASS | Checks if the cluster storage
utilization is above threshold. |
+-----+
+-----+
| Zookeeper check |
PASS | Checks if Zookeeper service is
running. |
+-----+
+-----+
| Exhibitor check | PASS | Checks if Exhibitor in
running. |
+-----+
+-----+
| System Disks Usage |
PASS | Checks if /sdal, var/stv and
/var/zookeeper is less than 80%. |
+-----+
+-----+
| HDD health check |
PASS | Checks if any drive is in
blacklisted state. |
+-----+
+-----+
| DNS check | PASS |
| Checks if configured DNS is reachable. |
+-----+
+-----+
| Timestamp check |
PASS | Checks if the timestamp is same
across all Nodes. |
+-----+
+-----+
| NTP sync check |
PASS | Checks if the NTP is synced with
NTP server. |
+-----+
+-----+
| Check package & versions |
PASS | Checks for count and version of
HX packages on each node. |
+-----+
+-----+
| Check Iptables count |
PASS | Checks if the IP Table count
matches on all nodes. |
+-----+
+-----+
| Cache Disks check | PASS |
| Checks the number of Cache Disks. |
+-----+
+-----+
| Extra pnodes check |
PASS | Checks for any stale Node
entry. |
+-----+
+-----+
| Memory usage check |
PASS | Checks for available memory more

```

```

than 2GB.
+-----+
+-----+
| Incidence of OOM in the log file |
PASS | Checks for any previous
incidence of Out Of Memory Condition. |
+-----+
+-----+
| Check permissions for /tmp | PASS
| Checks if the /tmp permissions are
set correctly. |
+-----+
+-----+
| Check Cluster Access Policy |
Lenient | Checks the Configured Cluster
Access Policy |
+-----+
+-----+
| Check CMIP Hostname |
PASS | Check if the clustermanagementip
has hostname defined. |
+-----+
+-----+
| Domain join health | Name = hyper10-stc
| Checking domain join health of the Node. |
| Domain =
HX.LOCAL
|
| Distinguished Name = CN=HYPER10-
STC,OU=HYPER10,DC=hx,DC=local |
+-----+
+-----+

HX Controller: 10.8.16.66
Test Summary:
+-----+
+-----+
| Name | Result
| Comments |
+-----+
+-----+
| Cluster services check |
PASS | Checks storfs, stMgr, sstNodeMgr
service running on each node. |
+-----+
+-----+
| Enospc state check |
PASS | Checks if the cluster storage
utilization is above threshold. |
+-----+
+-----+
| Zookeeper check |
PASS | Checks if Zookeeper service is
running. |
+-----+
+-----+
| Exhibitor check | PASS
| Checks if Exhibitor in
running. |
+-----+
+-----+
| System Disks Usage |
PASS | Checks if /sda1, var/stv and
/var/zookeeper is less than 80%. |

```



```

+-----+
+-----+
| HDD health check          |
PASS                        | Checks if any drive is in
blacklisted state.         |
+-----+
+-----+
| DNS check                 | PASS
                            | Checks if configured DNS is reachable.
+-----+
+-----+
| Timestamp check          |
PASS                        | Checks if the timestamp is same
across all Nodes.         |
+-----+
+-----+
| NTP sync check           |
PASS                        | Checks if the NTP is synced with
NTP server.               |
+-----+
+-----+
| Check package & versions |
PASS                        | Checks for count and version of
HX packages on each node. |
+-----+
+-----+
| Check Iptables count     |
PASS                        | Checks if the IP Table count
matches on all nodes.     |
+-----+
+-----+
| Cache Disks check        | PASS
                            | Checks the number of Cache Disks.
+-----+
+-----+
| Extra pnodes check       |
PASS                        | Checks for any stale Node
entry.                     |
+-----+
+-----+
| Memory usage check       |
PASS                        | Checks for available memory more
than 2GB.                 |
+-----+
+-----+
| Incidence of OOM in the log file |
PASS                        | Checks for any previous
incidence of Out Of Memory Condition. |
+-----+
+-----+
| Check permissions for /tmp | PASS
                            | Checks if the /tmp permissions are
set correctly.           |
+-----+
+-----+
| Check Cluster Access Policy |
Lenient                    | Checks the Configured Cluster
Access Policy            |
+-----+
+-----+
| Check CMIP Hostname      |
PASS                        | Check if the clustermanagementip
has hostname defined.    |
+-----+
+-----+

```

```

-----+-----
| Domain join health          | Name = hyper11-stc
|                             | Checking domain join health of the Node.
|                             | Domain =
HX.LOCAL
|                             |
|                             | Distinguished Name = CN=HYPER11-
STC,OU=HYPER10,DC=hx,DC=local |
-----+-----
-----+-----

```

HX Controller: 10.8.16.67

Test Summary:

```

-----+-----
-----+-----
| Name                       | Result
| Comments                   |
-----+-----
| Cluster services check    |
PASS                         | Checks storfs, stMgr, sstNodeMgr
service running on each node. |
-----+-----
| Enospc state check       |
PASS                         | Checks if the cluster storage
utilization is above threshold. |
-----+-----
| Zookeeper check          |
PASS                         | Checks if Zookeeper service is
running.                      |
-----+-----
| Exhibitor check          | PASS
                             | Checks if Exhibitor in
running.                      |
-----+-----
| System Disks Usage       |
PASS                         | Checks if /sda1, var/stv and
/var/zookeeper is less than 80%. |
-----+-----
| HDD health check        |
PASS                         | Checks if any drive is in
blacklisted state.           |
-----+-----
| DNS check                | PASS
                             | Checks if configured DNS is reachable.
-----+-----
| Timestamp check         |
PASS                         | Checks if the timestamp is same
across all Nodes.           |
-----+-----
| NTP sync check          |
PASS                         | Checks if the NTP is synced with
NTP server.                  |
-----+-----

```

```

-----+-----
| Check package & versions          |
PASS                               | Checks for count and version of
HX packages on each node.          |
+-----+-----
| Check Iptables count              |
PASS                               | Checks if the IP Table count
matches on all nodes.              |
+-----+-----
| Cache Disks check                 | PASS
    | Checks the number of Cache Disks.          |
+-----+-----
| Extra pnodes check               |
PASS                               | Checks for any stale Node
entry.                              |
+-----+-----
| Memory usage check               |
PASS                               | Checks for available memory more
than 2GB.                            |
+-----+-----
| Incidence of OOM in the log file |
PASS                               | Checks for any previous
incidence of Out Of Memory Condition. |
+-----+-----
| Check permissions for /tmp        | PASS
                                     | Checks if the /tmp permissions are
set correctly.                       |
+-----+-----
| Check Cluster Access Policy       |
Lenient                             | Checks the Configured Cluster
Access Policy                         |
+-----+-----
| Check CMIP Hostname              |
PASS                               | Check if the clustermanagementip
has hostname defined.                |
+-----+-----
| Domain join health                | Name = hyper12-stc
                                     | Checking domain join health of the Node.
|                                     | Domain =
HX.LOCAL                             |
|                                     |
|                                     | Distinguished Name = CN=HYPER12-
STC,OU=HYPER10,DC=hx,DC=local        |
+-----+-----

```

```

#####
Hyper-V check:
#####

```

Hyper-V Clusters: 10.8.16.61, 10.8.16.62, 10.8.16.63

Hyper-V Host: 10.8.16.61

```

-----+-----

```

```

-----+-----+-----+-----+
| Name | Status |
-----+-----+-----+
Comments |
-----+-----+-----+
| HostName | |
| Hyper-V Role | |
| Node State | |
| Network Interfaces State | |
| Remote Management Enabled | |
| MTU for Storage Data Network | |
-----+-----+-----+
| Check the Domain and forest details | Description : HXDC-
DOMAIN | Check the Domain and forest details of
the cluster. |
| DnsForestName :
|
| DomainControllerAddress :
\\10.8.12.254 |
|
| DomainControllerName :
\\HXDC |
|
| DomainName : HXDC-
DOMAIN |
|
| Status : OK
-----+-----+-----+
| Check host file entries |
| |
the host file have correct entries. |
-----+-----+-----+

```

```

| 10.8.18.65 HYPER10-
SMB.hx.local
|
| 10.8.18.69 HYPER10-SMB.hx.local
|

```

```

+-----+
+-----+

```

InterfaceDescription	IPv4Address	InterfaceAlias	Check Adapter details of the
node.			
Ethernet Adapter #4 {10.8.17.61}		vswitch-hx-livemigration	Hyper-V Virtual
Ethernet Adapter #3 {10.8.19.61}		vswitch-hx-vm-network	Hyper-V Virtual
Ethernet Adapter #2 {10.8.18.61}		vswitch-hx-storage-data	Hyper-V Virtual
Ethernet Adapter {10.8.16.61}		vswitch-hx-inband-mgmt	Hyper-V Virtual
Ethernet Adapter #5 {169.254.84.129}		vEthernet (New Virtual Switch)	Hyper-V Virtual

Altitude	Frame	Filter Name	Num Instances
Check the status of minifilter drivers.			
404900	0	CsvNSFlt	1
404800	0	CsvFlt	0
261160	0	CCFFilter	1
244000	0	storqosflt	1
202000	0	ResumeKeyFilter	0
189900	0	wcifs	0
180451	0	CldFlt	0
141100	0	FileCrypt	0
135100	0	svhdxflt	0
135000	0	luafv	1

```

|
| npsvcctrig | 1
46000 0
|
| Wof | 1
40700 0

```

```

+-----+
+-----+
| Virtual Machine Management service check |
PASS | Checking
if VMMS service is Up and Running.
+-----+
+-----+
| SMB Test |
PASS | Checking
SMB reachability of node.
+-----+
+-----+

```

Hyper-V Host: 10.8.16.62

```

+-----+
+-----+
-----+
| Name | Status
Comments |
+-----+
+-----+
-----+
| HostName |
HYPER11 |
Check if the hostname is defined.
+-----+
+-----+
-----+
| Cluster Failover | Installed
| Check if the
Failover Cluster Manager feature is installed. |
+-----+
+-----+
-----+
| Hyper-V Role |
Installed |
Check if the Hyper-V Manager feature is installed.
+-----+
+-----+
-----+
| Node State |
PASS |
Check the Node State.
+-----+
+-----+
-----+
| Network Interfaces State |
PASS |
Check the Network Interfaces State.
+-----+
+-----+
-----+
| Remote Management Enabled |
PASS |
Check if the Remote Management is enabled on the node.

```

```

+-----+
+-----+
-----+
| MTU for Storage Data Network          | 9000
|                                         | Check MTU for the Storage Data
Network.                                |
+-----+
+-----+
-----+
| Check the Domain and forest details   | Description          : HXDC-
DOMAIN                                  | Check the Domain and forest
details of the cluster.                 |
|                                         | DnsForestName       :
hx.local                                 |
|                                         |
|                                         | DomainControllerAddress :
\\10.8.12.254                            |
|                                         |
|                                         | DomainControllerName  :
\\HXDC                                    |
|                                         | DomainName           : HXDC-
DOMAIN                                    |
|                                         |
|                                         | Status               :
OK                                         |
+-----+
+-----+
-----+
| Check host file entries                |
correct entries.                          |
|                                         | 10.8.18.66          HYPER10-
SMB.hx.local                               |
|                                         |
|                                         | 10.8.18.69          HYPER10-
SMB.hx.local                               |
+-----+
+-----+
-----+
| Check Adapter details                  | InterfaceAlias
InterfaceDescription                      | IPv4Address          | Check Adapter details of the
node.                                     |
|                                         | -----
|                                         |
|                                         | vswitch-hx-inband-mgmt      Hyper-V Virtual
Ethernet Adapter {10.8.16.70, 10.8.16.62} |
|                                         |
|                                         | vswitch-hx-livemigration    Hyper-V Virtual
Ethernet Adapter #4 {10.8.17.62}          |
|                                         |
|                                         | vswitch-hx-storage-data     Hyper-V Virtual
Ethernet Adapter #2 {10.8.18.62}          |
|                                         |
|                                         | vswitch-hx-vm-network       Hyper-V Virtual
Ethernet Adapter #3 {10.8.19.62}          |
|                                         |
|                                         | vEthernet (New Virtual Switch) Hyper-V Virtual
Ethernet Adapter #5 {169.254.247.198}     |
+-----+
+-----+

```

```

-----+-----
-----+
| Drivers test | Filter Name | Num Instances
Altitude Frame | Check the status of minifilter
drivers. | -----
-----
| | |
| | |
404900 0 | CsvNSFlt | 1
| | |
| | |
404800 0 | CsvFlt | 0
| | |
| | |
261160 0 | CCFFilter | 1
| | |
| | |
244000 0 | storqosflt | 2
| | |
| | |
202000 0 | ResumeKeyFilter | 0
| | |
| | |
189900 0 | wcifs | 0
| | |
| | |
180451 0 | CldFlt | 0
| | |
| | |
141100 0 | FileCrypt | 0
| | |
| | |
135100 0 | svhdxflt | 0
| | |
| | |
135000 0 | luafv | 1
| | |
| | |
46000 0 | npsvctrig | 1
| | |
| | |
40700 0 | Wof | 1
-----+-----
-----+-----
-----+
| Virtual Machine Management service check |
PASS |
Checking if VMMS service is Up and Running. |
-----+-----
-----+
| SMB Test |
PASS |
Checking SMB reachability of node. |
-----+-----
-----+

```

Hyper-V Host: 10.8.16.63

```

-----+-----
-----+-----

```



```

| Name | Status
|
| Comments
|
+-----+-----+
| HostName |
HYPER12 | Check if
the hostname is defined. |
+-----+-----+
| Cluster Failover | Installed
| Check if the Failover Cluster Manager feature is installed.
|
+-----+-----+
| Hyper-V Role |
Installed | Check if
the Hyper-V Manager feature is installed. |
+-----+-----+
| Node State | PASS
| Check the Node State.
|
+-----+-----+
| Network Interfaces State |
PASS | Check the
Network Interfaces State. |
+-----+-----+
| Remote Management Enabled | PASS
| Check if the Remote Management is enabled on the node.
|
+-----+-----+
| MTU for Storage Data Network |
9000 | Check MTU
for the Storage Data Network. |
+-----+-----+
| Check the Domain and forest details | Description : HXDC-DOMAIN
| Check the Domain and forest details of the cluster.
|
| | DnsForestName :
hx.local |
|
| | DomainControllerAddress :
\\10.8.12.254 |
|
| | DomainControllerName :
\\HXDC |
|
| | DomainName : HXDC-DOMAIN
|
| | Status :
OK |
+-----+-----+
| Check host file entries
|
| Check if the host file have correct entries. |
| | 10.8.18.67 | HYPER10-SMB.hx.local

```

```

|
|
| 10.8.18.69    HYPER10-
SMB.hx.local   |

```

```

+-----+-----+
+-----+-----+
| Check Adapter details | InterfaceAlias
InterfaceDescription   IPv4Address | Check Adapter details of the
node.                  |
|                       | -----
|                       | vswitch-hx-inband-mgmt   Hyper-V Virtual
Ethernet Adapter {10.8.16.63} |
|                       | vswitch-hx-storage-data  Hyper-V Virtual
Ethernet Adapter #2 {10.8.18.63} |
|                       | vswitch-hx-vm-network    Hyper-V Virtual
Ethernet Adapter #3 {10.8.19.63} |
|                       | vswitch-hx-livemigration  Hyper-V Virtual
Ethernet Adapter #4 {10.8.17.63} |
|                       | vEthernet (New Virtual Switch) Hyper-V Virtual
Ethernet Adapter #5 {169.254.18.96} |
+-----+-----+

```

```

+-----+-----+
+-----+-----+
| Drivers test | Filter Name | Num Instances
Altitude Frame | Check the status of minifilter drivers.
|             | -----
-----
|             | CsvNSFlt | 1
404900 0 |
|             | CsvFlt | 0
404800 0 |
|             | CCFFilter | 1
261160 0 |
|             | storqosflt | 2
244000 0 |
|             | ResumeKeyFilter | 0
202000 0 |
|             | wcifs | 0
189900 0 |
|             | CldFlt | 0
180451 0 |
|             | FileCrypt | 0
141100 0 |
|             | svhdxflt | 0
135100 0 |
|             | luafv | 1
135000 0 |
|

```


ssh to All Hyperflex SCVMs-

```
# service_status.sh
# sysmtool --ns cluster --cmd enospcinfo
# echo srvr | nc 0 2181
# pidof exhibitor
# sysmtool --ns disk --cmd list | grep -i blacklisted | wc -l
# stcli services dns show (and ping the IPs listed)
# date ; compare the time on all SCVMs. They should ideally be identical
# stcli services ntp show
# sysmtool --ns cleaner --cmd status
# ntpq -p -4
# dpkg -l | grep -i springpath
# iptables -L -n | wc -l
# hxcli cluster info
# df -h ; check that /var/stv should not be more than 80% used
# zgrep -i "out of memory" /var/log/springpath/debug-storfs.*
# domainjoin-cli query
```

HyperV - إعدادة جيل ع

Open the Windows Powershell

```
# Get-ClusterNode
# Get-ClusterNetwork
# Get-Service WinRM, Make sure windows remote management service is running
# Get-Content $env:SystemRoot\System32\Drivers\etc\hosts , Make sure you have correct host
entried
# test-path\\<smb-share name fqdn>\<datastorename> This should return true ,if not datastore is
not reachable via smb.
# Get-NetIPConfiguration
# Get-NetIPInterface -AddressFamily IPv4 -InterfaceAlias vswitch-hx-storage-data | select NlMtu*
```

ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومة م ادخت ساب دن تسمل اذة Cisco ت مچرت
ملاعلاء انء مچ م ف ن م دخت تسمل معد و ت م م دقت ل ة يرش ب ل و
امك ة ق ق د ن و ك ت ن ل ة ل آل ة مچرت ل ض ف أن ة ظ حال م چ ر ة . ة ص ا خ ل م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت م م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا م ل ا ح ل ا و ه
ل ا ا م ا د ا د و چ ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص أ ل ا ي ز ي ل چ ن ا ل ا دن تسمل ا