

Hypercontrole: HyperFlex Health & Pre-Upgrade Check Tool - HyperV

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Inleiding

Dit document beschrijft het proces om de Hypercheck Health Check & Pre-Upgrade tool uit te voeren op het HyperV-cluster van HyperV. Deze tool is een hulpprogramma om proactieve zelfcontroles uit te voeren op hyperflex-systemen om de stabiliteit en veerkracht te garanderen. Het helpt bij het automatiseren van een lijst met gezondheids- en pre-upgrade-controles op hyperflex-systemen om tijd te besparen tijdens de upgrade- en onderhoudsbewerkingen van de hyperflex.

OPMERKING: Download altijd de nieuwste versie van de tool voordat u het gebruikt. Aangezien het gereedschap vaak wordt verbeterd, kan het gebruik van oudere versies resulteren in het missen van belangrijke controles.

Ondersteunde HX-systemen

- HyperFlex Versies - 3.0, 3.5, 4.0
- HyperFlex Standard Cluster
- Alleen ondersteund op Hyperflex-cluster in Microsoft Hyper-V

OPMERKING: Hoe Hypercheck uit te voeren op hyperflex ESXi cluster?

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

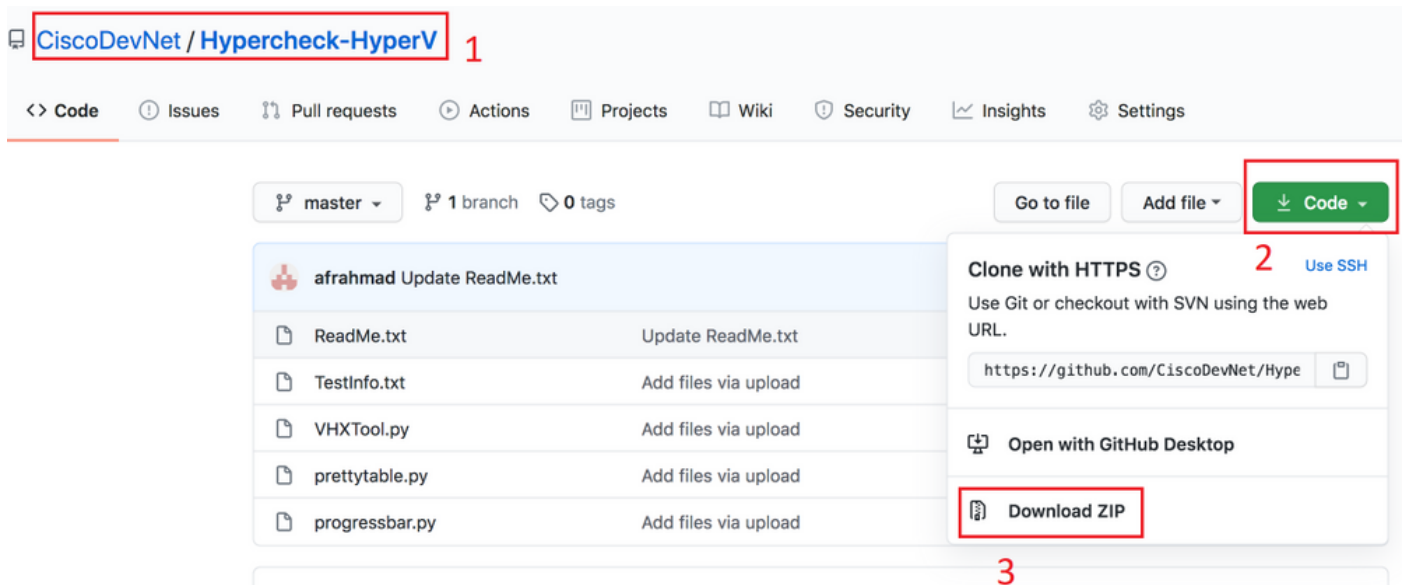
Wanneer te gebruiken

- Voor de HyperFlex-upgrades.
- Hyperflex Health Check voor en na het onderhoud van Windows
- Stations/schijven met fouten identificeren.
- Bij het werken met Cisco TAC
- Proactieve Health Check altijd.

Hoe te gebruiken

Stap 1. Download [hier](#) Hyperflex-Hypercheck.zip van de Cisco Gitouub Deventer-account .Zorg voor de nieuwste kopie die de nieuwste verbeteringen en updates zal hebben.

OPMERKING: Gebruik alleen het script dat is gedownload van de Cisco Gigabit-apparaataccount.



Stap 2. Upload deze naar de Storage Controller VM (SCVM) met de Cluster Management IP (CMIP).

Gebruik de gewenste methode - **scp/sftp/ftp/ftps** - om de Hypercheck-HyperV-master.zip naar de directory **/tmp** te kopiëren

Voor MAC:

SCP vanaf CLI uitvoeren (bevestig dat de Hyperflex-Hypercheck.zip in dezelfde map staat vanwaar u SCP uitvoert)

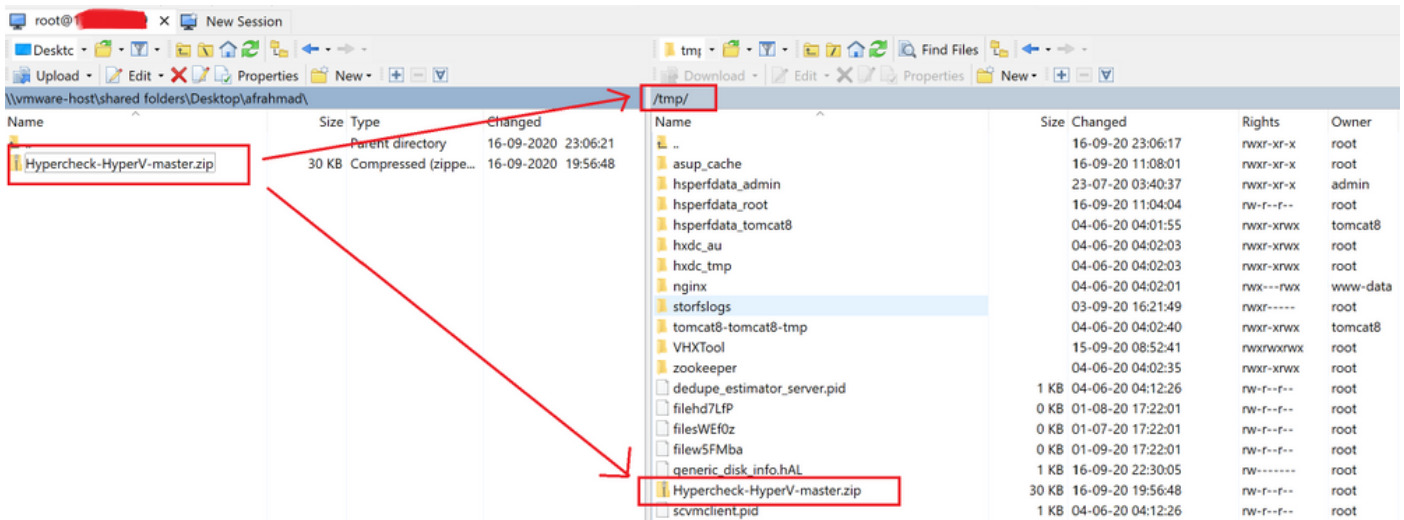
```
# scp Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

Gebruik het volgende om het Cluster Management IP in uw HX-omgeving te identificeren - [Hyperflex playbook](#)

```
afrahmad@AFRAHMAD-M-C3RS Desktop $ scp Hypercheck-HyperV-master.zip root@[redacted]:/tmp/
HyperFlex StorageController 4.0(1b)
Password:
Hypercheck-HyperV-master.zip                               100% 30KB 40.9KB/s 00:00
afrahmad@AFRAHMAD-M-C3RS Desktop $
```

Voor Windows:

We kunnen WINSFTP gebruiken om de bestanden over te brengen zoals hieronder getoond -



Stap 3. Neem de inhoud van Hypercheck-HyperV-master.zip uit

Type `cd /tmp` om in de map /tmp te wijzigen

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

Type `unzip Hypercheck-HyperV-master.zip` om de bestanden te extraheren

```
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/VHXTool.py
inflating: Hypercheck-HyperV-master/prettytable.py
inflating: Hypercheck-HyperV-master/progressbar.py
root@hyper11-stc:/tmp#
```

Stap 4. Voer het VHXTool Python-script uit

Type `cd Hypercheck-HyperV-master` om naar de Hypercheck-HyperV-master directory te gaan

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

Typ `python VHXTool.py` om het script uit te voeren

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

Stap 5. Voer wanneer hierom wordt gevraagd de gebruikersnaam voor HyperV-beheer, het wachtwoord voor het wachtwoord en de naam van de Cluster in

```
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:
```

OPMERKING: Als u het uitvoeren van scripts wilt stoppen, gebruikt u de toets [CTRL+Z] en stopt u direct

Stap 6. Hyperflex-Hypercheck tool zal u vragen of Active Directory is geïnstalleerd op een kale metaal in uw omgeving.

OPMERKING: Het script blijft draaien ongeacht de invoer die hier gegeven wordt (Ja/Nee). Onderstaand bericht wordt met de nodige voorzichtigheid weergegeven.

"Houd er rekening mee dat alle Active Directory-servers/ DNS-servers niet moeten worden genest in virtuele machines die op Hyperflex datastore zijn geïnstalleerd. Er moeten altijd fysieke (kale metalen) AD's in uw omgeving zijn"

Stap 7. Het gereedschap HyperFlex-Hypercheck start de controles. Het zal ongeveer 5-10 minuten duren voordat de uitvoering is voltooid, afhankelijk van het aantal geconvergeerde knooppunten in het cluster

Stap 8. Inzicht in uitgevoerde uitgangen / controles

De volgende controles worden uitgevoerd door Hyperflex-Hyperchecktool

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

Stap 9. Ontvang een rapport van de script outputs. U kunt deze verkrijgen zoals hieronder wordt getoond

Het tar-bestand van Hypercheck wordt opgeslagen onder `/var/log/springpath` en `/tmp/Hypercheck-HyperV-master`. U kunt dus de tar-bundel downloaden onder `/var/log/springpath` of `/tmp/Hypercheck-HyperV-master`. U kunt ook gewoon een storfs-support bundel genereren en uploaden die ook de hypercheck-rapport-tar bevat.

Het tar-bestand van Hypercheck wordt opgeslagen onder `/var/log/springpath`.

Voorbeeld van tar-bestand melden - `VHX_Report_2020_08_29_08_40_20.tar` wordt naar pad gekopieerd: `/var/log/springpath`

Type `ls -l | grep VHX_Report` om de bestanden te bekijken die gemaakt zijn met Hyperflex-Hypercheck tool

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
```

Bestanden en logbestanden in de logbundel van Hypercheck-

```
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
```

Stap 10: Exporteren `HX_YYYY_MM_DD_HH_MM_SS.tar` en delen met TAC.

Gebruik uw voorkeursmethode om de Hypercheck logs te exporteren met behulp van `sftp/sftp/ftp/tftp` van de SCVM of u kunt eenvoudig de storfs support bundel downloaden die `VHX_Report tar` bundel zal bevatten.

Stap 11. `VHXTool`-uitgang uit een 3-knooppunt-cluster

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
| Cluster Data IP | CRM Master |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 1      | 10.8.16.65      | hyper10-stc  | 10.8.18.65      | 9000      | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 2      | 10.8.16.66      | hyper11-stc  | 10.8.18.66      | 9000      | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 3      | 10.8.16.67      | hyper12-stc  | 10.8.18.67      | 9000      | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+

```

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 | | 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 /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 /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 = 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		the hostname is defined.
Cluster Failover	Installed	the Failover Cluster Manager feature is installed.
Hyper-V Role	Installed	the Hyper-V Manager feature is installed.
Node State	PASS	Node State.
Network Interfaces State	PASS	Network Interfaces State.
Remote Management Enabled	PASS	the Remote Management is enabled on the node.
MTU for Storage Data Network	9000	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	:
	DomainControllerName	:
\\HXDC		
	DomainName	: HXDC-
DOMAIN		
	Status	: OK

```

| Check host file entries
|
| Check if
the host file have correct entries.
|
| 10.8.18.65    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-livemigration   Hyper-V Virtual
Ethernet Adapter #4 {10.8.17.61}
|                       |
|                       | vswitch-hx-vm-network      Hyper-V Virtual
Ethernet Adapter #3 {10.8.19.61}
|                       |
|                       | vswitch-hx-storage-data    Hyper-V Virtual
Ethernet Adapter #2 {10.8.18.61}
|                       |
|                       | vswitch-hx-inband-mgmt     Hyper-V Virtual
Ethernet Adapter {10.8.16.61}
|                       |
|                       | vEthernet (New Virtual Switch) Hyper-V Virtual
Ethernet Adapter #5 {169.254.84.129}
|
+-----+-----+

```

```

| 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  | 1
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 |
|
| npsvcstrig | 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. |
+-----+
-----+
-----+
```

| 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
Hyper-V Role	Installed	Check if the Hyper-V Manager feature is installed.
Cluster Failover	Installed	Check if the Failover Cluster 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.
hx.local	DnsForestName :	
\\10.8.12.254	DomainControllerAddress :	
\\HXDC	DomainControllerName :	
	DomainName : HXDC-DOMAIN	
OK	Status :	
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. |
| | |
| | |
| Ethernet Adapter {10.8.16.63} | vswitch-hx-inband-mgmt | Hyper-V Virtual
|
| Ethernet Adapter #2 {10.8.18.63} | vswitch-hx-storage-data | Hyper-V Virtual
|
| Ethernet Adapter #3 {10.8.19.63} | vswitch-hx-vm-network | Hyper-V Virtual
|
| Ethernet Adapter #4 {10.8.17.63} | vswitch-hx-livemigration | Hyper-V Virtual
|
| Ethernet Adapter #5 {169.254.18.96} | vEthernet (New Virtual Switch) | Hyper-V Virtual
|
+-----+-----+
+-----+-----+

```

```

+-----+-----+
+-----+-----+
| 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
|
+-----+-----+

```

```

|                                     | luafv                                     | 1
135000      0      |
|                                     | npsvctrig                                 | 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.                                       |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+

```

Main Report File: VHX_Tool_Main_Report_2020-09-13_09-49-38_HYPER10-SMB.txt
Report tar file: VHX_Report_2020_09_13_21_42_18.tar
Report file copied to path: /var/log/springpath

Release Notes:

<https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/products-release-notes-list.html>

Upgrade Guides:

<https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/products-installation-guides-list.html>

Note:

1) Hypercheck doesnot perform FAILOVER TEST, so please ensure that the upstream is configured for network connectivity for JUMBO or NORMAL MTU size as needed.

Uitvoer gereedschap analyseren - volgende stappen

- De tool automatiseert het proces van het uitvoeren van handmatige opdrachten op Hyperflex Systems.
- Als het gereedschap **OK** draait en voor alle tests een **PASS/VOLTOOIDE** geeft. Het HX systeem is goed voor alle controles die het script heeft uitgevoerd.
- In situaties waarin het gereedschap **MISLUKT** op sommige controles of niet succesvol wordt uitgevoerd, kunt u de CLI-opdrachten (hieronder vermeld) gebruiken om dezelfde controles op Hyperflex System uit te voeren als handmatig door het script worden uitgevoerd.
- De tool controleert **NIET** op oude/nieuwe/open/opgeloste voorbehouden en daarom wordt het ten zeerste aanbevolen om **Hyperflex Releaseopmerkingen en Upgradehandleidingen** te bekijken voordat u een upgrade- of onderhoudsactiviteit uitvoert.

OPMERKING: MAG NIET Open een TAC-case omdat het script niet kan worden uitgevoerd. Voer de opdrachten handmatig uit, identificeer het probleem en open een SR voor het geïdentificeerde probleem.

CLI-opdrachten

Op HyperFlex SCVM -

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
```

Op HyperV knooppunt -

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*
```

Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document ([link](#)) te raadplegen.