

# Hypercheck: HyperFlex Health & Pre-Upgrade Check Tool - HyperV

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## Einleitung

In diesem Dokument wird der Prozess zum Ausführen des Hypercheck Health Check & Pre-Upgrade-Tools auf Hyperflex HyperV-Clustern beschrieben. Dieses Tool ist ein Dienstprogramm, um proaktive Selbstprüfungen auf Hyperflex-Systemen durchzuführen, um seine Stabilität und Ausfallsicherheit zu gewährleisten. Es ermöglicht die Automatisierung einer Liste von Integritäts- und Vorabprüfungen von Hyperflex-Systemen, um Zeit bei Upgrades und Wartungsarbeiten zu sparen.

**HINWEIS:** Laden Sie stets die neueste Version des Tools herunter, bevor Sie es verwenden. Da das Tool häufig verbessert wird, kann die Verwendung einer älteren Version dazu führen, dass wichtige Prüfungen fehlen.

## Unterstützte HX-Systeme

- Hyperflex-Versionen - 3.0, 3.5, 4.0
- HyperFlex Standard-Cluster
- Nur unterstützt auf Hyperflex-Cluster in Microsoft Hyper-V

**HINWEIS:** So führen Sie **Hypercheck auf Hyperflex ESXi-Cluster** aus:

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

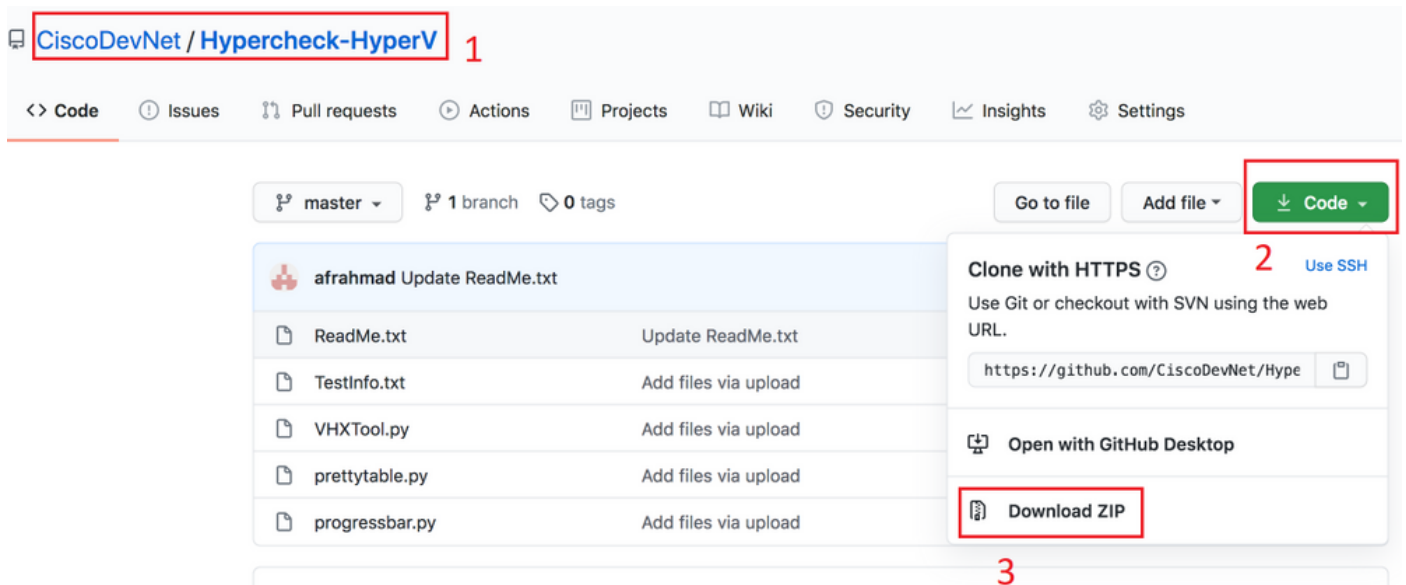
## Verwendungszweck

- Vor Hyperflex-Upgrades.
- HyperFlex Health Check vor und nach Wartungsfenstern
- Zur Identifizierung ausgefallener Laufwerke/Laufwerke.
- Beim Arbeiten mit dem Cisco TAC
- Proaktiver Health Check jederzeit.

## Nutzung

**Schritt 1:** Laden Sie Hyperflex-Hypercheck.zip [hier](#) vom Cisco github devnet-Konto herunter. Laden Sie sich die neueste Version mit den neuesten Verbesserungen und Updates herunter.

*HINWEIS:* Verwenden Sie nur das vom Cisco github-Konto heruntergeladene Skript.



**Schritt 2:** Laden Sie die Datei mit der Cluster Management IP (CMIP) auf die Storage Controller VM (SCVM) hoch.

Verwenden Sie Ihre bevorzugte Methode - **scp/sftp/ftp/tftp** - zum Kopieren der Datei Hypercheck-HyperV-master.zip in das Verzeichnis **/tmp**

### Für MAC:

SCP über die CLI durchführen (vergewissern Sie sich, dass sich Hyperflex-Hypercheck.zip im selben Ordner befindet, von dem aus Sie scp ausführen)

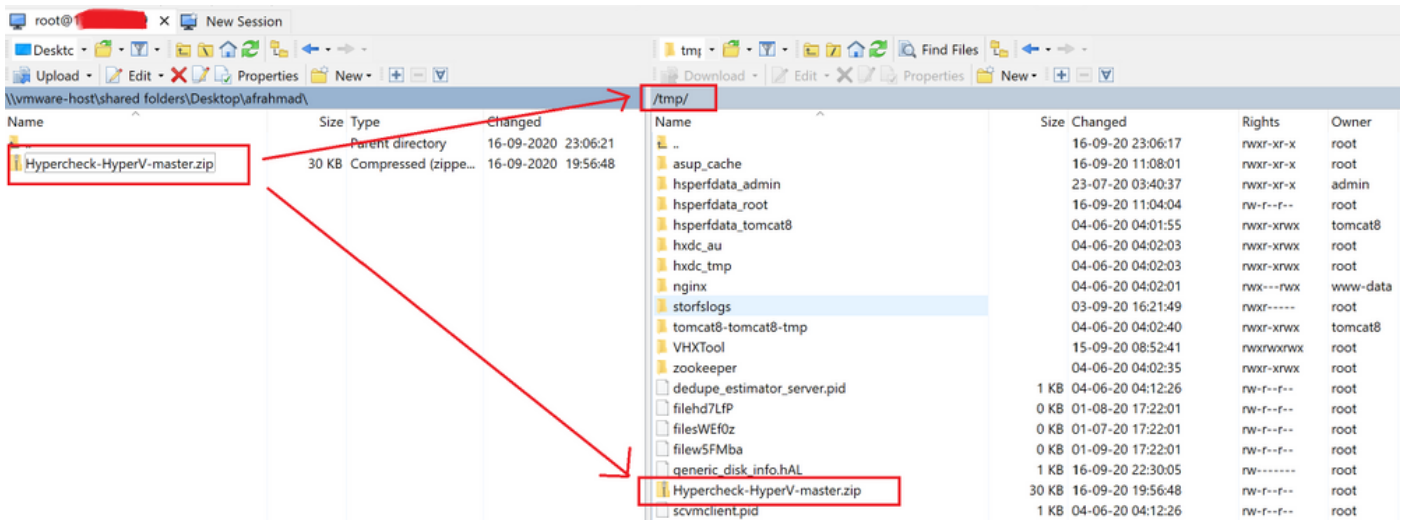
```
# scp Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

Identifizieren Sie mithilfe der folgenden Methoden die Cluster Management-IP in Ihrer HX-Umgebung - [Hyperflex-Leitfaden](#)

```
[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 $ █
```

### Für Windows:

Wir können WINSOCP verwenden, um die Dateien wie folgt zu übertragen:



**Schritt 3.** Extrahieren Sie den Inhalt von Hypercheck-HyperV-master.zip

Geben Sie `cd /tmp` ein, um zum Verzeichnis `/tmp` zu wechseln.

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

Geben Sie `unzip Hypercheck-HyperV-master.zip` ein, um die Dateien zu extrahieren.

```
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#
```

**Schritt 4:** Ausführen des Python-Skripts von VHXTTool

Geben Sie `cd Hypercheck-HyperV-master` ein, um zum Verzeichnis `Hypercheck-HyperV-master` zu wechseln.

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

Geben Sie `python VHXTTool.py` ein, um das Skript auszuführen.

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

**Schritt 5:** Geben Sie bei Aufforderung den HyperV-Admin-Benutzernamen, das Kennwort und das Cluster-Root-Kennwort ein.

```
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:
```

**HINWEIS:** Um die Skriptausführung zu stoppen, drücken Sie die Taste `[STRG+Z]`. Die Ausführung wird sofort angehalten.

**Schritt 6.** Das Hyperflex-Hypercheck-Tool fordert Sie auf, zu überprüfen, ob Active Directory auf einem Bare-Metal in Ihrer Umgebung installiert ist.

**HINWEIS:** Das Skript wird unabhängig von der hier eingegebenen Eingabe (Ja/Nein) weiter ausgeführt. Die folgende Meldung wird als Warnhinweis angezeigt.

**"Bitte beachten Sie, dass nicht alle Active Directory-Server/ DNS-Server in virtuellen Hyperflex-Datenspeicher-Systemen geschachtelt werden sollten. Es sollte immer physische (Bare-Metal) ADs in Ihrer Umgebung geben."**

**Schritt 7.** Das Hyperflex-Hypercheck Tool startet seine Prüfungen. Die Ausführung dauert etwa 5-10 Minuten, abhängig von der Anzahl der konvergenten Knoten im Cluster

**Schritt 8:** Erkennen der Ausgaben/durchgeführten Prüfungen

Die folgenden Prüfungen werden vom Hyperflex-Hypercheck-Tool durchgeführt

**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 /sda1, 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

**Schritt 9.** Report der Skriptausgaben abrufen. Sie können es wie unten gezeigt bekommen

Hypercheck Die TAR-Datei für den Bericht wird unter `/var/log/springpath` und `/tmp/Hypercheck-HyperV-master` gespeichert. So können Sie das tar-Paket von unter `/var/log/springpath` oder `/tmp/Hypercheck-HyperV-master` herunterladen. Alternativ können Sie einfach ein storfs-unterstützendes Paket generieren und hochladen, das auch den hypercheck report tar enthält.

Hypercheck Die TAR-Datei des Berichts wird unter `/var/log/springpath` gespeichert.

Beispiel für eine Bericht-TAR-Datei - `VHX_Report_2020_08_29_08_40_20.tar` wird in Pfad kopiert: `/var/log/springpath`

Geben Sie `ls -l` ein. | `grep VHX_Report` zum Überprüfen der mit dem Hyperflex-Hypercheck-Tool erstellten Dateien

**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
```

Dateien und Protokolle im Hypercheck-Protokollpaket

```
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
```

**Phase 10:** Exportieren Sie `HX_YYYY_MM_DD_HH_MM_SS.tar`, und teilen Sie es mit dem TAC.

Verwenden Sie Ihre bevorzugte Methode, um die Hypercheck-Protokolle mit `scp/sftp/ftp/tftp` aus dem SCVM zu exportieren, oder Sie können einfach das storfs-Supportpaket herunterladen, das das TAR-Paket `VHX_Report` enthält.

**Schritt 11:** Beispiel für die VHXTool-Ausgabe in einem Cluster mit 3 Knoten

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
	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	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 | |
| HYPER10 | | | 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. |

```

```

| 10.8.18.65 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
|

```

```

| 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. | -----
|
| | 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
|
| | 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. |
-----+-----

```



```

| 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 |
|

```

```

| 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.

## Analyse der Tool-Ausgabe - Weitere Schritte

- Das Tool automatisiert die Ausführung manueller Befehle auf Hyperflex-Systemen.
- Wenn das Tool **OK** ausführt und alle Tests **BESTANDEN/ABGESCHLOSSEN** zeigt. Das HX-System eignet sich für alle Prüfungen, die das Skript durchgeführt hat.
- In Situationen, in denen das Tool einige Prüfungen **NICHT** erfolgreich durchführt oder nicht erfolgreich ausgeführt wird, können Sie die CLI-Befehle (unten aufgeführt) verwenden, um die gleichen Prüfungen auf Hyperflex System wie im Manually-Skript durchzuführen.
- Das Tool sucht **NICHT** nach alten/neuen/offenen/behobenen Vorbehalten. Daher wird dringend empfohlen, die **Hyperflex-Versionshinweise und Upgrade-Leitfäden** vor jeder Aktualisierung oder Wartung zu lesen.

*HINWEIS: Das sollten Sie unterlassen: ein TAC-Ticket erstellen, weil das Skript nicht ausgeführt werden konnte. Führen Sie die Befehle manuell aus, identifizieren Sie das Problem, und öffnen Sie einen Serviceticket für das erkannte Problem.*

## CLI-Befehle

Auf 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
```

## Auf HyperV-Knoten -

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*
```

## Informationen zu dieser Übersetzung

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