

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

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## Introduction

Ce document décrit le processus d'exécution de l'outil Hypercheck Health Check & Pre-Upgrade sur le cluster Hyperflex HyperV. Cet outil est un utilitaire permettant d'effectuer des auto-contrôles proactifs sur les systèmes hyperflex afin de garantir sa stabilité et sa résilience. Il permet d'automatiser une liste de vérifications de l'état et de pré-mise à niveau sur les systèmes hyperflex pour gagner du temps lors des opérations de mise à niveau et de maintenance hyperflex.

**REMARQUE :** téléchargez toujours la dernière version de l'outil avant de l'utiliser. Comme l'outil est fréquemment amélioré, l'utilisation d'une version plus ancienne peut entraîner l'absence de vérifications importantes.

## Systèmes HX pris en charge

- Versions Hyperflex - 3.0, 3.5, 4.0
- Cluster Hyperflex Standard
- Prise en charge uniquement sur le cluster Hyperflex dans Microsoft Hyper-V

**Remarque:** Comment exécuter **Hypercheck** sur le cluster hyperflex ESXi, rendez-vous sur

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

## Cas d'utilisation

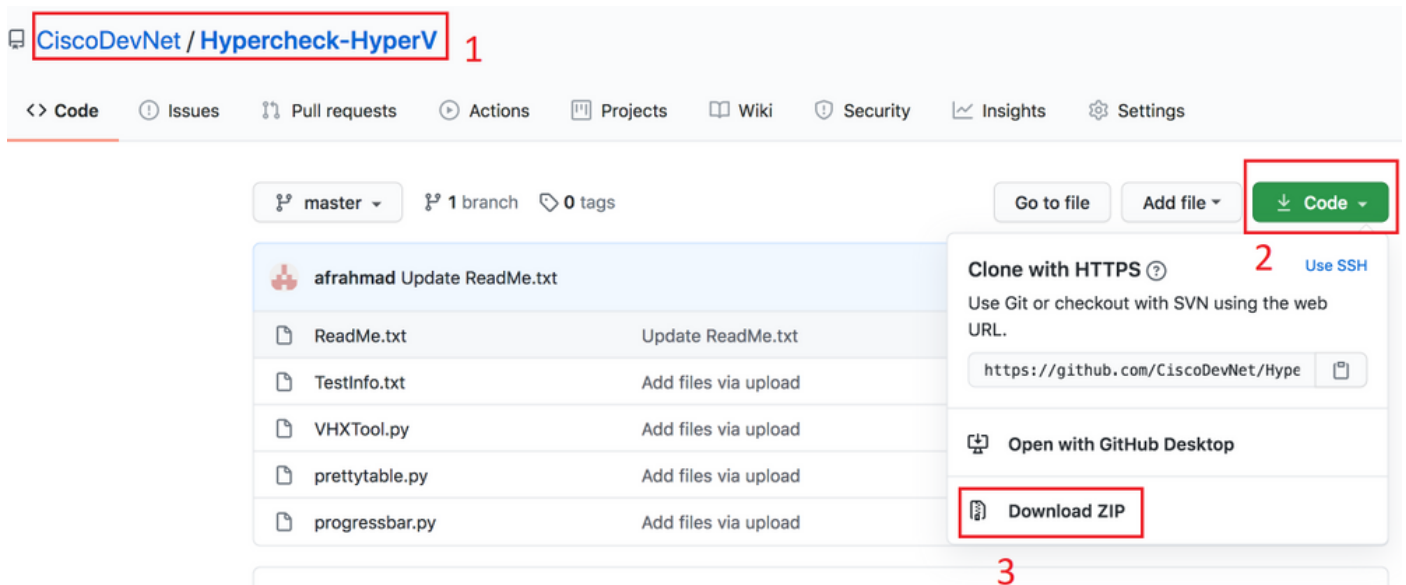
- Avant les mises à niveau Hyperflex.
- Vérification de l'intégrité Hyperflex avant et après les fenêtres de maintenance
- Pour identifier les disques/unités défectueux.
- Lorsque vous travaillez avec le TAC Cisco
- Vérification proactive de l'état à tout moment.

## Marche à suivre

**Étape 1.** Téléchargez Hyperflex-Hypercheck.zip à partir du compte de périphérique Cisco github

[ici](#) .Veuillez obtenir la dernière copie qui contiendra les dernières améliorations et mises à jour.

*NOTE: Utilisez uniquement le script téléchargé à partir du compte de périphérique Cisco github.*



**Étape 2 :** Téléchargez-la sur la machine virtuelle du contrôleur de stockage (SCVM) avec l'adresse IP de gestion de cluster (CMIP).

Utilisez la méthode de votre choix (**scp/sftp/ftp/tftp**) pour copier le fichier Hypercheck-HyperV-master.zip dans le répertoire **/tmp**

**Pour MAC :**

Exécutez SCP à partir de l'interface de ligne de commande (vérifiez que le fichier Hyperflex-Hypercheck.zip se trouve dans le même dossier que celui à partir duquel vous exécutez scp)

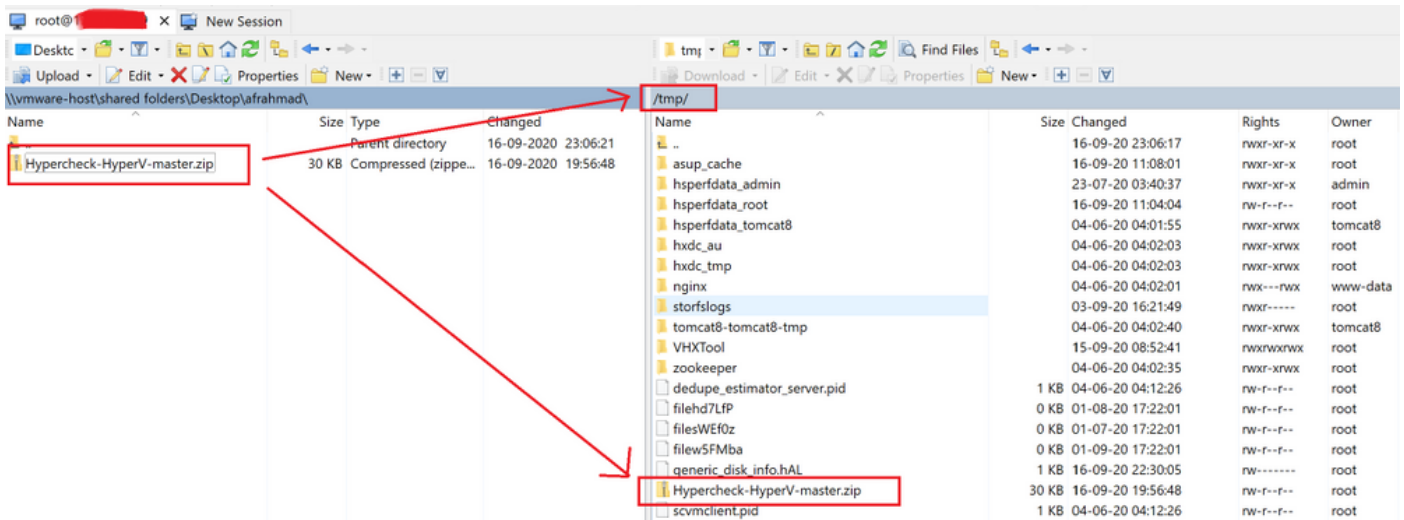
```
# scp Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

Utilisez les éléments suivants pour identifier l'adresse IP de gestion de cluster dans votre environnement HX : guide de [vente Hyperflex](#)

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

**Pour Windows :**

Nous pouvons utiliser WINSOCP pour transférer les fichiers comme indiqué ci-dessous-



### Étape 3. Extraire le contenu du fichier Hypercheck-HyperV-master.zip

Tapez `cd /tmp` pour accéder au répertoire `/tmp`

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

Tapez `unzip Hypercheck-HyperV-master.zip` pour extraire les fichiers

```
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#
```

### Étape 4 : exécution du script Python VHXTTool

Tapez `cd Hypercheck-HyperV-master` pour accéder au répertoire `Hypercheck-HyperV-master`

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

Tapez `python VHXTTool.py` pour exécuter le script

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

**Étape 5.** Entrez le nom d'utilisateur admin HyperV, le mot de passe et le mot de passe racine du cluster lorsque vous y êtes invité

```
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:
```

**NOTE:** Pour arrêter l'exécution du script, utilisez la touche **[CTRL+Z]** et elle s'arrêtera immédiatement

**Étape 6.** L'outil Hyperflex-Hypercheck vous invite à vérifier si Active Directory est installé sans système d'exploitation dans votre environnement.

**NOTE:** Le script continuera à s'exécuter quelle que soit l'entrée fournie (Oui/Non) ici. Le message ci-dessous s'affiche avec un avertissement.

« Notez que tous les serveurs Active Directory/serveurs DNS ne doivent pas être imbriqués dans les machines virtuelles de data store Hyperflex. Il doit toujours y avoir des DA physiques (sans système d'exploitation) dans votre environnement. »

**Étape 7.** L'outil Hyperflex-Hypercheck commence ses vérifications. L'exécution prend environ 5 à 10 minutes en fonction du nombre de noeuds convergents dans le cluster

**Étape 8.** Présentation des résultats et des contrôles effectués

Les vérifications suivantes sont effectuées par 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 /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

**Étape 9.** Obtenez un rapport des résultats du script. Vous pouvez l'obtenir comme indiqué ci-

dessous

Le fichier tar du rapport Hypercheck est enregistré sous `/var/log/springpath` et `/tmp/Hypercheck-HyperV-master`. Vous pouvez donc télécharger le bundle tar depuis `/var/log/springpath` ou `/tmp/Hypercheck-HyperV-master`. Sinon, vous pouvez simplement **générer et télécharger un bundle de support storfs** qui contiendra également le tar du rapport hypercheck.

Le fichier tar du rapport Hypercheck est enregistré sous `/var/log/springpath`.

Exemple de fichier tar de rapport - `VHX_Report_2020_08_29_08_40_20.tar` est copié vers le chemin : `/var/log/springpath`

Tapez `ls -l | grep VHX_Report` pour examiner les fichiers créés par l'outil Hyperflex-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
```

Fichiers et journaux du bundle de journaux 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
```

**Étape 10 :** Exportez `HX_YYY_MM_DD_HH_MM_SS.tar` et partagez-le avec le TAC.

Utilisez la méthode que vous préférez pour exporter les journaux Hypercheck en utilisant `scp/sftp/ftp/tftp` de SCVM ou vous pouvez simplement télécharger le bundle de support storfs qui contiendra le bundle tar `VHX_Report`.

**Étape 11.** Exemple de sortie `VHXTool` d'un cluster à 3 noeuds

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 | 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 | Checks the Configured Cluster
Lenient Access Policy |
+-----+
+-----+
| Check CMIP Hostname | Check if the clustermanagementip
PASS 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 | Checks storfs, stMgr, sstNodeMgr
PASS service running on each node. |
+-----+
+-----+
| Enospc state check | Checks if the cluster storage
PASS utilization is above threshold. |
+-----+
+-----+
| Zookeeper check | Checks if Zookeeper service is
PASS running. |
+-----+
+-----+
| Exhibitor check | PASS | Checks if Exhibitor in
running. |
+-----+
+-----+
| System Disks Usage | Checks if /sda1, var/stv and
PASS

```



```

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

```



```

-----+-----+-----+
| Name | Status |
| | |
| | |
-----+-----+-----+
| 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

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

InterfaceDescription	IPv4Address	InterfaceAlias	Check Adapter details of the
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

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

Altitude	Frame	Filter Name	Num Instances
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

```

|
|                                     | 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 des résultats de l'outil - Étapes suivantes

- L'outil automatise le processus d'exécution des commandes manuelles sur Hyperflex Systems.
- Si l'outil fonctionne **correctement** et donne **PASS/COMPLETED** sur tous les tests. Le système HX convient à toutes les vérifications effectuées par le script.
- Si l'outil **ÉCHOUE** sur certaines vérifications ou ne s'exécute pas correctement, vous pouvez utiliser les commandes CLI (répertoriées ci-dessous) pour effectuer les mêmes vérifications sur Hyperflex System que celles effectuées manuellement par le script.
- L'outil **NE** vérifie **PAS** les anciennes/nouvelles/ouvertes/résolues et il est donc fortement recommandé de consulter les **notes de version et les guides de mise à niveau d'Hyperflex** avant toute activité de mise à niveau ou de maintenance.

**NOTE: NE FAITES PAS** ouvrez un dossier TAC car l'exécution du script a échoué. Exécutez les commandes manuellement, identifiez le problème et ouvrez une demande de service pour le problème identifié.

## Commandes CLI

## Sur 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
```

## Sur le noeud HyperV -

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*
```

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