

# Hipercomprobación: Herramienta de comprobación de estado y actualización previa de Hyperflex - HyperV

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## Introducción

Este documento describe el proceso para ejecutar la herramienta Hypercheck Health Check & Pre-Upgrade en el clúster HyperV de Hyperflex. Esta herramienta es una utilidad para realizar autocomprobaciones proactivas en sistemas hiperflex para garantizar su estabilidad y resistencia. Ayuda a automatizar una lista de comprobaciones de estado y previas a la actualización en sistemas hiperflex para ahorrar tiempo durante las operaciones de mantenimiento y actualización de hiperflex.

**NOTA:** Descargue siempre la última versión de la herramienta antes de utilizarla. Dado que la herramienta se mejora con frecuencia, el uso de una versión anterior puede dar lugar a la falta de comprobaciones importantes.

## Sistemas HX compatibles

- Versiones de Hyperflex - 3.0, 3.5, 4.0
- Clúster estándar Hyperflex
- Sólo se admite en clústeres Hyperflex en Microsoft Hyper-V

**Nota:** Cómo ejecutar Hypercheck en el clúster de HyperFlex ESXi, visite-

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

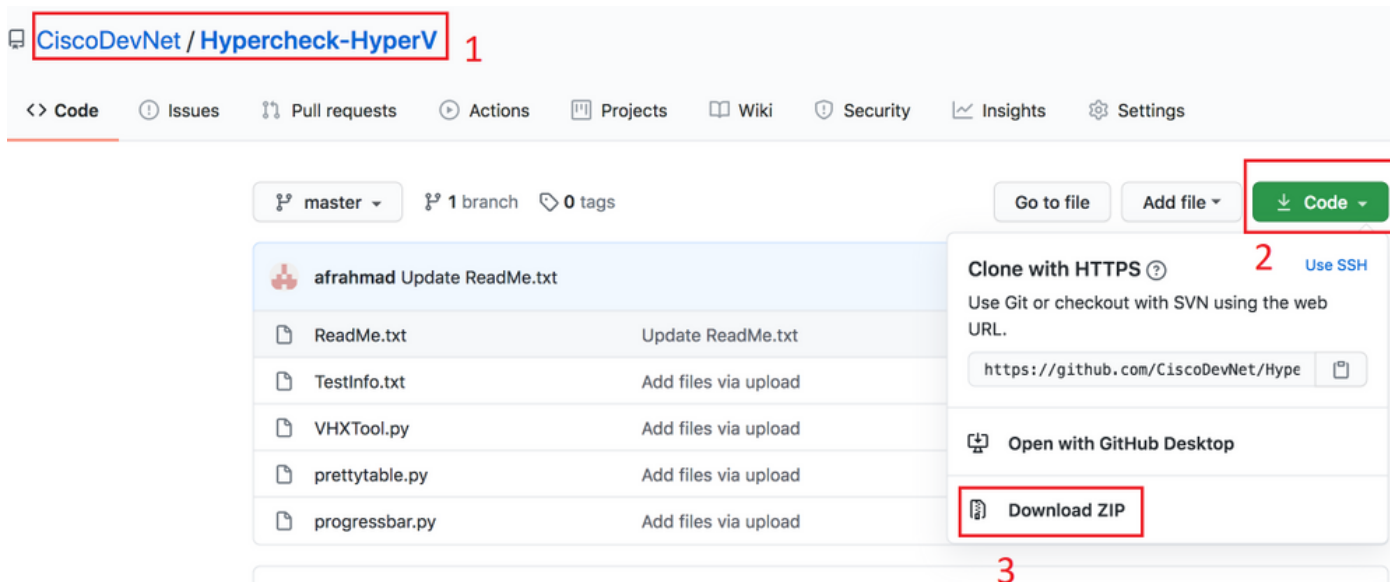
## Cuándo se debe utilizar

- Antes de las actualizaciones de Hyperflex.
- Comprobación del estado de Hyperflex antes y después de las ventanas de mantenimiento
- Para identificar discos o unidades con errores.
- Al trabajar con Cisco TAC
- Comprobación de estado proactiva en cualquier momento.

# Cómo usarla

**Paso 1.** Descargue Hyperflex-Hypercheck.zip de la cuenta de dispositivo github de Cisco [aquí](#). Obtenga la última copia que tendrá las últimas mejoras y actualizaciones.

*NOTE: Utilice únicamente el script descargado de la cuenta de dispositivo github de Cisco.*



**Paso 2.** Cargarlo en la máquina virtual del controlador de almacenamiento (SCVM) con la IP de administración de clústeres (CMIP).

Utilice el método que prefiera, **scp/sftp/ftp/tftp**, para copiar Hypercheck-HyperV-master.zip en el directorio **/tmp**

## Para MAC:

Realizar SCP desde CLI (confirme que Hyperflex-Hypercheck.zip está en la misma carpeta desde la que ejecuta scp)

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

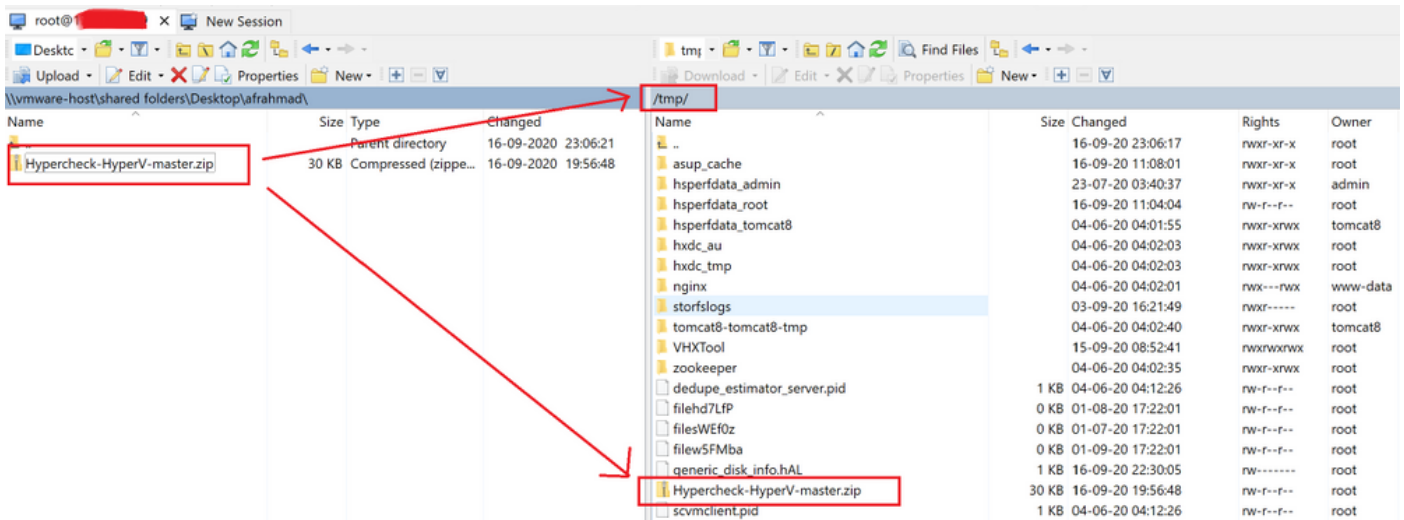
Utilice lo siguiente para identificar la IP de administración de clústeres en su entorno HX:

[cuaderno de campaña de Hyperflex](#)

```
afrahmad@AFRAHMAD-M-C3RS Desktop $ scp Hypercheck-HyperV-master.zip root@10.10.10.10:/tmp/
HyperFlex StorageController 4.0(1b)
Password:
Hypercheck-HyperV-master.zip
afrahmad@AFRAHMAD-M-C3RS Desktop $ █ 100% 30KB 40.9KB/s 00:00
```

## Para Windows:

Podemos utilizar WINSOCP para transferir los archivos como se muestra a continuación-



### Paso 3. Extraiga el contenido de Hypercheck-HyperV-master.zip

Escriba `cd /tmp` para cambiar al directorio `/tmp`

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

Escriba `unzip Hypercheck-HyperV-master.zip` para extraer los archivos

```
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#
```

### Paso 4. Ejecutar el script VHXTTool Python

Escriba `cd Hypercheck-HyperV-master` para ir al directorio `Hypercheck-HyperV-master`

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

Escriba `python VHXTTool.py` para ejecutar la secuencia de comandos

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

### Paso 5. Introduzca el nombre de usuario del administrador de HyperV, la contraseña y la contraseña raíz del clúster cuando se le solicite

```
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: Para detener la ejecución del script, utilice la tecla [CTRL+Z] y se detendrá inmediatamente**

**Paso 6.** La herramienta Hyperflex-Hypercheck le pedirá que pregunte si Active Directory está instalado en un hardware físico de su entorno.

**NOTE:** La secuencia de comandos seguirá ejecutándose independientemente de la entrada proporcionada (Sí/No) aquí. El siguiente mensaje se mostrará como advertencia.

**"Tenga en cuenta que todos los servidores Active Directory/servidores DNS no deben anidarse en máquinas virtuales de almacén de datos Hyperflex. Siempre debe haber anuncios físicos (sin software específico) en su entorno".**

**Paso 7.** La herramienta Hyperflex-Hypercheck inicia sus comprobaciones. La ejecución tardará aproximadamente de 5 a 10 minutos en completarse en función del número de nodos convergentes del clúster

**Paso 8.** Descripción de los resultados y las comprobaciones realizadas

La herramienta Hyperflex-Hyperchecktool realiza las siguientes comprobaciones

**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

**Paso 9.** Obtener informe de los resultados del script. Puede obtenerla como se muestra a continuación

El archivo .tar de informe de hipercomprobación se guarda en `/var/log/springpath` y `/tmp/Hypercheck-HyperV-master`. Por lo tanto, puede descargar el paquete tar desde `/var/log/springpath` o `/tmp/Hypercheck-HyperV-master`. Alternativamente, puede simplemente **generar y cargar un paquete storfs-support** que también contendrá el informe de hipercomprobación tar.

El archivo .tar de informe de hipercomprobación se guarda en `/var/log/springpath`.

Ejemplo de archivo .tar de informe: `VHX_Report_2020_08_29_08_40_20.tar` se copia en la ruta: `/var/log/springpath`

Tipo `ls -l | grep VHX_Report` para revisar los archivos creados por la herramienta 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
```

**Archivos y registros en el paquete de registro 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
```

**Paso 10:** Exporte `HX_YYY_MM_DD_HH_MM_SS.tar` y compártalo con el TAC.

Utilice el método que prefiera para exportar los registros de hipercomprobación mediante `scp/sftp/ftp/tftp` desde SCVM o simplemente descargue el paquete de soporte de storfs que contendrá el paquete tar `VHX_Report`.

**Paso 11.** Ejemplo de resultado de `VHXTool` desde un clúster de 3 nodos

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





```

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	DOMAIN : HXDC- the cluster.   Check the Domain and forest details of   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
InterfaceDescription      | InterfaceAlias
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
Altitude   Frame      | Filter Name
| 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           |
|                               | Check if the host file have
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. | -----

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
46000	0	npsvctrig	1
40700	0	Wof	1

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

-----+  
| Virtual Machine Management service check |  
PASS  
Checking if VMMS service is Up and Running. |

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

-----+  
| SMB Test |  
PASS  
Checking SMB reachability of node. |

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



-----+

Hyper-V Host: 10.8.16.63

Name	Status	Comments
HostName		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.
hx.local	DnsForestName :	
\\10.8.12.254	DomainControllerAddress :	
\\HXDC	DomainControllerName :	
	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
InterfaceDescription      | InterfaceAlias
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
Altitude  Frame      | Filter Name
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.

## Analizar salida de herramienta: siguientes pasos

- La herramienta automatiza el proceso de ejecución de comandos manuales en sistemas Hyperflex.
- Si la herramienta funciona correctamente y da **PASS/COMPLETED** en todas las pruebas. El sistema HX es bueno para todas las comprobaciones que ha realizado el script.
- En situaciones en las que la herramienta **FALLA** en algunas comprobaciones o no se ejecuta correctamente, puede utilizar los comandos de CLI (enumerados a continuación) para realizar las mismas comprobaciones en el sistema Hyperflex que las realizadas por la secuencia de comandos Manualmente.
- La herramienta **NO** verifica si hay advertencias antiguas/nuevas/abiertas/resueltas y, por lo tanto, se recomienda revisar las **Notas de la versión** y las **Guías de actualización de Hyperflex** antes de cualquier actividad de actualización o mantenimiento.

**NOTE: NO SE PUEDE** abra un caso TAC porque el script no se pudo ejecutar. Ejecute los

*comandos manualmente, identifique el problema y abra una SR para el problema identificado.*

## Comandos CLI

### En 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
```

### En el nodo 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*
```

## Acerca de esta traducción

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