

超級檢查：Hyperflex健康狀況與升級前檢查工具 — HyperV

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簡介

本文檔介紹在Hyperflex HyperV群集上運行超級檢查運行狀況檢查和預升級工具的過程。此工具是對hyperflex系統進行主動自檢以確保其穩定性和彈性的實用程式。它可幫助自動執行hyperflex系統上的運行狀況和升級前檢查清單，以在hyperflex升級和維護操作期間節省時間。

注意：在使用工具之前，請始終下載該工具的最新版本。由於該工具經常增強，因此使用舊版本可能導致丟失重要檢查。

支援的HX系統

- Hyperflex版本 — 3.0、3.5、4.0
- Hyperflex標準集群
- 僅在Microsoft Hyper-V中的Hyperflex群集上受支援

附註：如何在hyperflex ESXi群集上運行超級檢查，請訪問 —

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

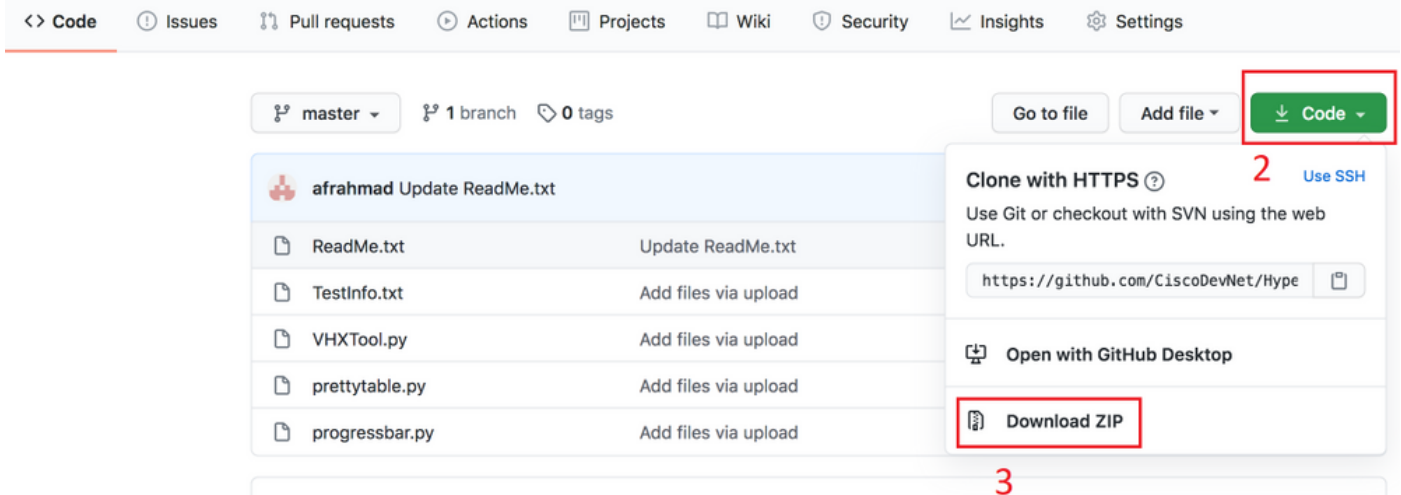
使用時機

- 在Hyperflex升級之前。
- 維護視窗前後的Hyperflex運行狀況檢查
- 識別故障驅動器/磁碟。
- 使用Cisco TAC時
- 隨時主動進行運行狀況檢查。

使用方法

步驟1.從此處的Cisco github devnet帳戶下載Hyperflex-Hypercheck.zip。請獲得最新副本，其中包含最新的改進和更新。

附註：僅使用從Cisco github devnet帳戶下載的指令碼。



步驟2.使用群集管理IP(CMIP)將其上傳到儲存控制器VM(SCVM)。

使用首選方法 — scp/sftp/ftp/tftp — 將Hypercheck-HyperV-master.zip複製到/tmp目錄

對於MAC:

從CLI執行SCP (請確認Hyperflex-Hypercheck.zip位於您運行scp的同一資料夾中)

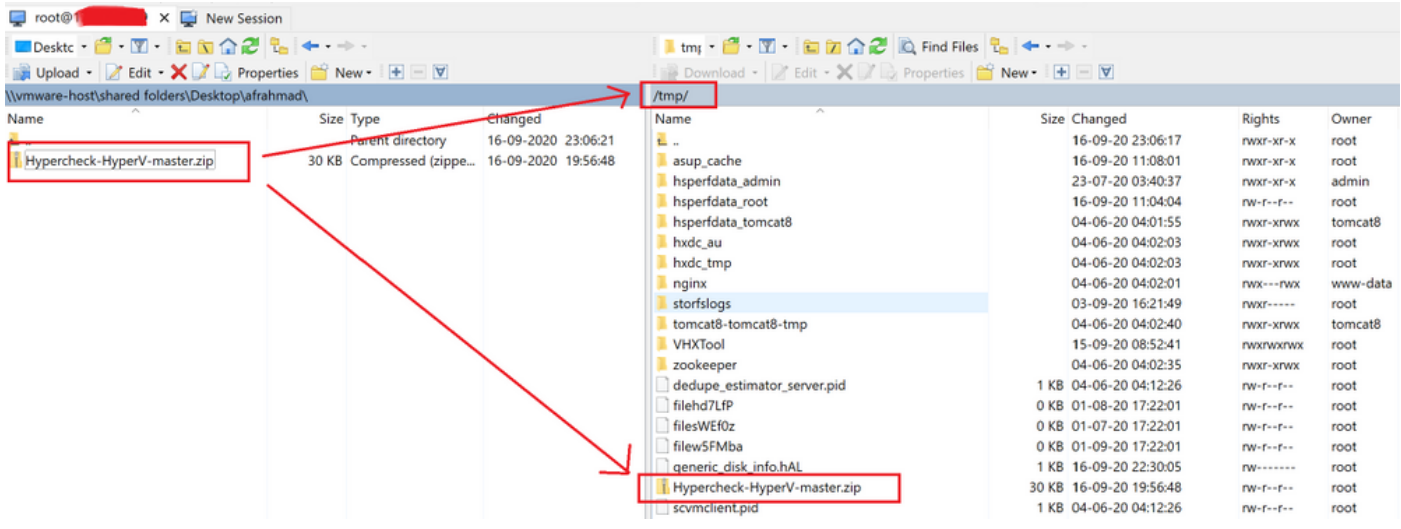
```
# scp Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

使用以下資訊確定HX環境中的群集管理IP - Hyperflex手冊

```
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
```

對於Windows:

我們可以使用WINSOCP傳輸檔案，如下所示 —



步驟3.擷取Hypercheck-HyperV-master.zip的內容

鍵入cd /tmp以更改為/tmp目錄

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

鍵入unzip Hypercheck-HyperV-master.zip 解壓縮檔案

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

步驟4.執行VHXTool Python指令碼

鍵入cd Hypercheck-HyperV-master以轉到Hypercheck-HyperV-master目錄

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

鍵入python VHXTool.py執行指令碼

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

步驟5.出現提示時輸入HyperV管理員使用者名稱、密碼和群集根密碼

```
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:
```

附註：要停止指令碼執行，請使用鍵[CTRL+Z]，該鍵將立即停止

步驟6.Hyperflex-Hypercheck工具將提示您詢問環境中是否有裸機安裝了Active Directory。

附註：無論在此處提供什麼輸入（是/否），指令碼將繼續運行。以下消息將顯示為警告消息。

「請注意，所有Active Directory伺服器/DNS伺服器不應巢狀在Hyperflex資料儲存區虛擬機器中。您的環境中應始終存在物理（裸機）AD」

步驟7. Hyperflex-Hypercheck工具開始其檢查。根據群集中的已收斂節點數，執行過程大約需要5到10分鐘

步驟8.瞭解已執行的輸出/檢查

以下檢查由Hyperflex-Hyperchecktool執行

```
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

步驟9.獲取指令碼輸出的報告。您可以獲得如下所示的內容

超檢查報告tar檔案儲存在/var/log/springpath 和/tmp/Hypercheck-HyperV-master下。因此，您可以從/var/log/springpath 或/tmp/Hypercheck-HyperV-master下下載tar捆綁包。或者，您只需生成並上傳storfs支援捆綁包，該捆綁包還將包含超級檢查報告tar。

超級檢查報告tar檔案儲存在/var/log/springpath下。

報告tar檔案示例 — VHX_Report_2020_08_29_08_40_20.tar被複製到路徑：/var/log/springpath

鍵入ls -l | grep VHX_Report檢視Hyperflex-Hypercheck工具建立的檔案

Under /var/log/springpath,

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

Under /tmp/Hypercheck-HyperV-master

```
root@hyper11-stc:/tmp/Hypercheck-HyperV-master# ls -ltrh
total 576K
-rwxrwxrwx 1 root root 53K Apr 10 2018 prettytable.py
-rwxrwxrwx 1 root root 1.4K Jan 22 2019 progressbar.py
-rwxrwxrwx 1 root root 1.6K Aug 28 00:27 ReadMe.txt
-rwxrwxrwx 1 root root 75K Aug 28 06:32 VHXTool.py
```

```
-rwxrwxrwx 1 root root 3.5K Aug 28 06:46 TestInfo.txt
-rw-r--r-- 1 root root 49K Aug 29 08:40 prettytable.pyc
-rw-r--r-- 1 root root 1.8K Aug 29 08:40 progressbar.pyc
drwxr-xr-x 2 root root 4.0K Aug 29 08:47 VHX_Report_2020_08_29_08_40_20
-rw-r--r-- 1 root root 370K Aug 29 08:47 VHX_Report_2020_08_29_08_40_20.tar
```

Hypercheck日誌包中的檔案和日誌 —

```
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
```

步驟10:匯出HX_YYYY_MM_DD_HH_MM_SS.tar並與TAC共用。

使用首選方法從SCVM使用scp/sftp/ftp/tftp匯出超級檢查日誌，或者只下載包含VHX_Report tar捆綁包的storfs支援捆綁包。

步驟11. 3節點集群的VHXTool輸出示例

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

Is the Active Directory installed on Physical (bare metal) in your Environment (Enter Yes/No):
yes
Note: Please be aware that all Active Directory Servers/ DNS Servers should not be nested in
Hyperflex datastore virtual machines. There should always be physical (bare metal) ADs in your
environment.

SMB Name: HYPER10-SMB

SSH connection established to HX Node: 10.8.16.65
SSH connection established to HX Node: 10.8.16.66
SSH connection established to HX Node: 10.8.16.67

HX Cluster Nodes:
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| Nodes | Eth0 IP Address | HostName      | Eth1 IP Address | Eth1 MTU | Cluster Mgmt IP
| Cluster Data IP | CRM Master |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| 1     | 10.8.16.65      | hyper10-stc  | 10.8.18.65      | 9000     | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| 2     | 10.8.16.66      | hyper11-stc  | 10.8.18.66      | 9000     | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| 3     | 10.8.16.67      | hyper12-stc  | 10.8.18.67      | 9000     | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
```

HX Controller: 10.8.16.65

```

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

```

HX Controller: 10.8.16.66

```

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

```

HX Controller: 10.8.16.67

```

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

```

HX Controller: 10.8.16.65

Test Summary:

```

+-----+-----+
+-----+-----+
| Name | Result |
| | |
| | |
+-----+-----+
+-----+-----+
| 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 |
| | |
| | |
+-----+-----+
+-----+-----+
| 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 |
| | |
| | |
+-----+-----+
+-----+-----+

```

```

| 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	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		PASS	Checks the number of Cache Disks.


```

+-----+-----+
+-----+
| Extra pnodes check          |          | Checks for any stale Node
PASS                           |          |
entry.                         |          |
+-----+-----+
+-----+
| Memory usage check          |          | Checks for available memory more
PASS                           |          |
than 2GB.                      |          |
+-----+-----+
+-----+
| Incidence of OOM in the log file |          | Checks for any previous
PASS                           |          |
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 = 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      |          | 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      |
PASS
/var/zookeeper is less than 80%. | Checks if /sda1, var/stv and
+-----+-----+
+-----+-----+
| HDD health check        |
PASS
blacklisted state.      | Checks if any drive is in
+-----+-----+
+-----+-----+
| DNS check                | PASS
                                | Checks if configured DNS is reachable.
+-----+-----+
+-----+-----+
| Timestamp check         |
PASS
across all Nodes.      | Checks if the timestamp is same
+-----+-----+
+-----+-----+
| NTP sync check          |
PASS
NTP server.            | Checks if the NTP is synced with
+-----+-----+
+-----+-----+
| Check package & versions |
PASS
HX packages on each node. | Checks for count and version of
+-----+-----+
+-----+-----+
| Check Iptables count    |
PASS
matches on all nodes.   | Checks if the IP Table count
+-----+-----+
+-----+-----+
| Cache Disks check       | PASS
                                | Checks the number of Cache Disks.
+-----+-----+
+-----+-----+
| Extra pnodes check      |
PASS
entry.                  | Checks for any stale Node
+-----+-----+
+-----+-----+
| Memory usage check      |
PASS
than 2GB.               | Checks for available memory more
+-----+-----+
+-----+-----+
| Incidence of OOM in the log file |
PASS
incidence of Out Of Memory Condition. | Checks for any previous
+-----+-----+
+-----+-----+
| 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.
|

```

404900	0	CsvNSFlt	1
404800	0	CsvFlt	0
261160	0	CCFFilter	1
244000	0	storqosflt	1
202000	0	ResumeKeyFilter	0
189900	0	wcifs	0
180451	0	CldFlt	0
141100	0	FileCrypt	0
135100	0	svhdxflt	0
135000	0	luafv	1
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: 10.8.16.62

```

+-----+
| 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.

| ----- | -----

| |
| | 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
|
|          | 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: 10.8.16.63

```

+-----+-----+
-----+-----+
| Name | Status
| Comments
|
+-----+-----+
-----+-----+
| HostName |
HYPER12 | Check if
the hostname is defined.
+-----+-----+
-----+-----+
| Cluster Failover | Installed
| Check if the Failover Cluster Manager feature is installed.
|
+-----+-----+
-----+-----+
| Hyper-V Role |
Installed | Check if
the Hyper-V Manager feature is installed.
+-----+-----+
-----+-----+
| Node State | PASS
| Check the Node State.
|
+-----+-----+
-----+-----+
| Network Interfaces State |
PASS | Check the
Network Interfaces State.
+-----+-----+
-----+-----+
| Remote Management Enabled | PASS
| Check if the Remote Management is enabled on the node.
|

```



```

+-----+-----+
+-----+-----+
| MTU for Storage Data Network          |          |          | Check MTU
9000                                     |          |          |
for the Storage Data Network.          |          |          |
+-----+-----+
+-----+-----+
| Check the Domain and forest details   | Description          : HXDC-DOMAIN
          | Check the Domain and forest details of the cluster.
|
|          | DnsForestName          :
hx.local          |          |
|
|          | DomainControllerAddress :
\\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
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
Altitude   Frame          | Filter Name          Num Instances
|          |          | Check the status of minifilter drivers.
|          |          |
|          | ----- | -----

```

404900	0	CsvNSFlt	1
404800	0	CsvFlt	0
261160	0	CCFFilter	1
244000	0	storqosflt	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. |
+-----+-----+-----+-----+
+-----+-----+-----+-----+

```

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.

分析工具輸出 — 後續步驟

- 該工具自動執行在Hyperflex系統上運行手動命令的流程。
- 如果工具運行OK並在所有測試上提供PASS/COMPLETED。HX系統適用於指令碼執行的所有檢查。
- 如果工具在某些檢查中失敗或者未成功運行，可以使用CLI命令（下面列出）在Hyperflex系統上執行與指令碼「手動」相同的檢查。
- 此工具不檢查任何舊/新/開放/解決的警告，因此強烈建議在任何升級或維護活動之前檢視Hyperflex發行說明和升級指南。

附註：不要開啟TAC案例，因為指令碼無法運行。請手動運行命令，找出問題並開啟SR找到問題。

CLI命令

在Hyperflex SCVM上 —

```
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
```

在HyperV節點上 —

```
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*
```

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。