

# 하이퍼체크:Hyperflex 상태 &업그레이드 전 확인 도구 - HyperV

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## 소개

이 문서에서는 Hyperflex HyperV 클러스터에서 Hypercheck 상태 확인 및 업그레이드 전 도구를 실행하는 프로세스에 대해 설명합니다. 이 툴은 하이퍼플렉스 시스템의 안정성 및 복원력을 보장하기 위해 사전 능동 자체 검사를 수행하는 유틸리티입니다. Hyperflex 시스템의 상태 및 업그레이드 전 검사 목록을 자동화하여 Hyperflex 업그레이드 및 유지 보수 작업 중에 시간을 절약할 수 있습니다.

**참고:** 도구를 사용하기 전에 항상 최신 버전의 툴을 다운로드하십시오. 도구가 자주 개선되므로 이전 버전을 사용하면 중요한 검사가 누락될 수 있습니다.

## 지원되는 HX 시스템

- Hyperflex 버전 - 3.0, 3.5, 4.0
- Hyperflex 표준 클러스터
- Microsoft Hyper-V의 Hyperflex 클러스터에서만 지원됨

**참고:**Hyperflex ESXi 클러스터에서 Hypercheck를 실행하는 방법, 다음 사이트를 방문하십시오.-

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

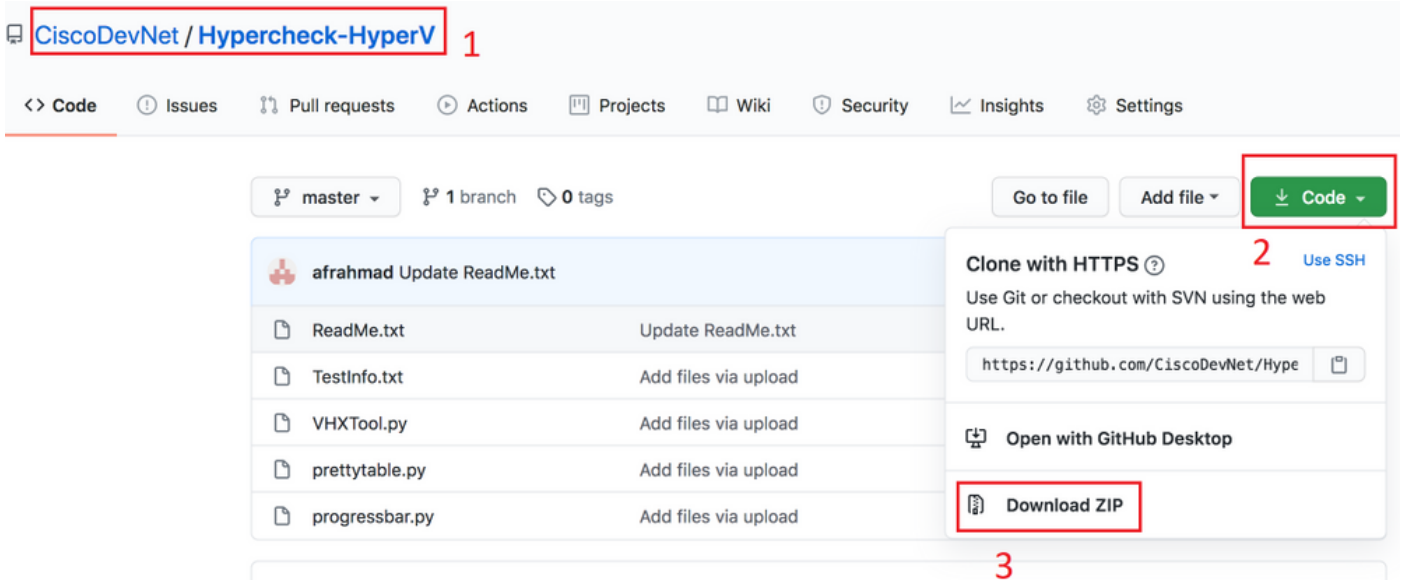
## 사용 시기

- Hyperflex 업그레이드 전
- Hyperflex 상태 확인 유지 관리 윈도우 전후에
- 장애가 발생한 드라이브/디스크를 식별합니다.
- Cisco TAC를 사용할 때
- 언제든지 사전 상태 확인

## 사용 방법

**1단계.** Cisco GHUB 디바이스 어카운트에서 Hyperflex-Hypercheck.zip을 [여기](#)에 다운로드하십시오. 최신 개선 사항 및 업데이트가 포함된 최신 사본을 다운로드하십시오.

참고: Cisco Github 디바이스 어카운트에서 다운로드한 스크립트만 사용합니다.



2단계. CMIP(Cluster Management IP)를 사용하여 SCVM(Storage Controller VM)에 업로드합니다.

Hypercheck-HyperV-master.zip을 /tmp 디렉토리에 복사하려면 선호하는 방법 (scp/sftp/ftp/ftpt)을 사용합니다.

### MAC의 경우:

CLI에서 SCP를 수행합니다(Hyperflex-Hypercheck.zip이 scp를 실행 중인 동일한 폴더에 있는지 확인하십시오.)

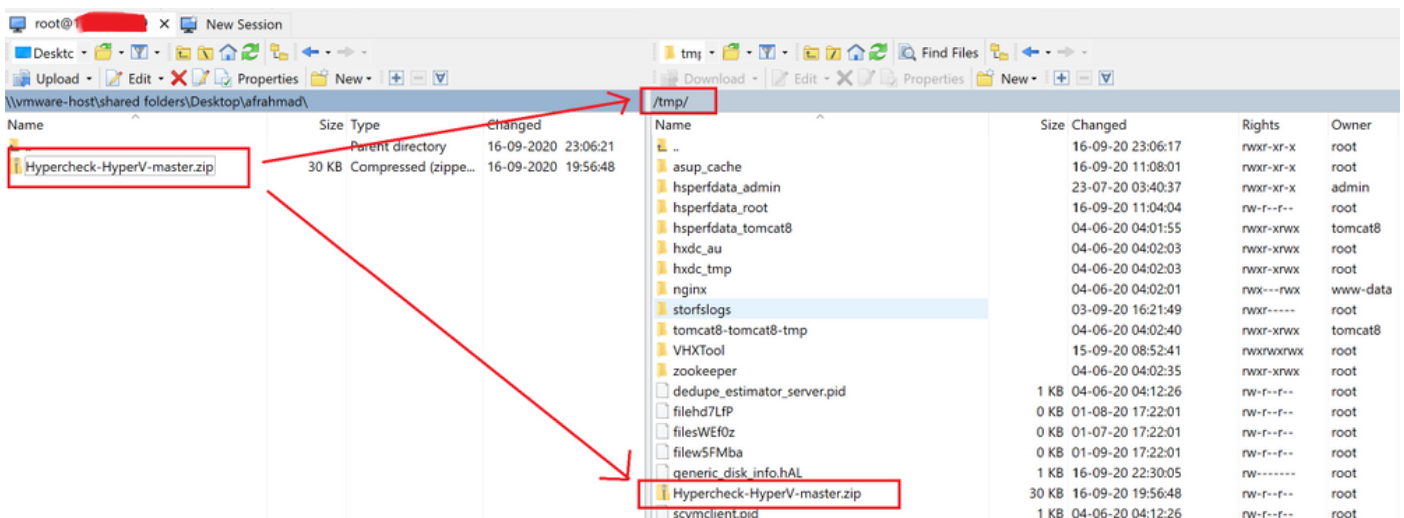
```
# scp Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

HX 환경에서 클러스터 관리 IP를 식별하려면 다음을 사용하십시오- Hyperflex 플레이북.

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

### Windows의 경우:

아래와 같이 WINSCP를 사용하여 파일을 전송할 수 있습니다.



### 3단계. Hypercheck-HyperV-master.zip의 내용 추출

/tmp 디렉토리로 변경하려면 `cd /tmp`를 입력하십시오.

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

파일을 추출하려면 `unzip Hypercheck-HyperV-master.zip`을 입력합니다.

```
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#
```

### 4단계. VHXTool Python 스크립트 실행

`cd Hypercheck-HyperV-master`를 입력하여 `Hypercheck-HyperV-master` 디렉터리로 이동합니다.

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

Python `VHXTool.py`를 입력하여 스크립트를 실행합니다.

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

5단계. 프롬프트가 표시되면 HyperV 관리자 사용자 이름, 비밀번호 및 클러스터 루트 비밀번호를 입력합니다.

```
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:
```

**참고:스크립트 실행을 중지하려면 [CTRL+Z] 키를 사용하여 즉시 중지됩니다.**

6단계. Hyperflex-Hypercheck 툴은 Active Directory가 환경의 베어 메탈에 설치되어 있는지 묻는 메시지를 표시합니다.

참고:여기서 제공된 입력에 관계없이 스크립트가 계속 실행됩니다(예/아니오).주의 사항으로 아래 메시지가 표시됩니다.

"모든 Active Directory 서버/DNS 서버가 Hyperflex 데이터 저장소 가상 컴퓨터에 중첩되어서는 안 됩니다.환경에 항상 물리적(베어 메탈) AD가 있어야 합니다."

7단계. Hyperflex-Hypercheck 툴이 검사를 시작합니다.클러스터의 통합 노드 수에 따라 실행을 완료하는 데 약 5-10분 정도 소요됩니다.

### 8단계. 수행된 출력/검사 이해

Hyperflex-Hyperchecktool에서 다음 검사를 수행합니다.

**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

9단계. 스크립트 출력 보고서를 가져옵니다.아래와 같이 받으실 수 있습니다

Hypercheck Report tar 파일은 /var/log/springpath 및 /tmp/Hypercheck-HyperV-master에 저장됩니다.따라서 /var/log/springpath 또는/tmp/Hypercheck-HyperV-master 아래에서 tar 번들을 다운로드 할 수 있습니다. 또는 hypercheck 보고서 tar를 포함할 storfs-support 번들을 생성하고 업로드하기 만 하면 됩니다.

Hypercheck Report tar 파일은 /var/log/springpath 아래에 저장됩니다.

보고서 tar 파일 예 - VHX\_Report\_2020\_08\_29\_08\_40\_20.tar가 경로에 복사됩니다  
./var/log/springpath

ls -l을 입력합니다. | grep VHX\_Report를 클릭하여 Hyperflex-Hypercheck 도구로 생성한 파일을 검토합니다.

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 로그 번들의 파일 및 로그

```
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
```

10단계:HX\_YYYY\_MM\_DD\_HH\_MM\_SS.tar를 내보내고 TAC와 공유합니다.

원하는 방법으로 SCVM에서 scp/sftp/ftp/tftp를 사용하여 Hypercheck 로그를 내보내거나 VHX\_Report tar 번들을 포함하는 storfs 지원 번들을 다운로드하면 됩니다.

### 11단계. 3노드 클러스터의 샘플 VHXTool 출력

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
```



```

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

```

```

+-----+
+-----+
| Domain join health          | Name = hyper10-stc
|                             | Checking domain join health of the Node.
|                             | Domain =
HX.LOCAL
|                             |
|                             | Distinguished Name = CN=HYPER10-
STC,OU=HYPER10,DC=hx,DC=local |
+-----+
+-----+

```

HX Controller: 10.8.16.66

Test Summary:

```

+-----+
+-----+
| Name           | Result
| Comments      |
+-----+
+-----+
| Cluster services check |
PASS                                     | Checks storfs, stMgr, sstNodeMgr
service running on each node. |
+-----+
+-----+
| Enospc state check    |
PASS                                     | Checks if the cluster storage
utilization is above threshold. |
+-----+
+-----+
| Zookeeper check      |
PASS                                     | Checks if Zookeeper service is
running.                  |
+-----+
+-----+
| Exhibitor check      | PASS
|                                     | Checks if Exhibitor in
running.                  |
+-----+
+-----+
| System Disks Usage   |
PASS                                     | Checks if /sda1, var/stv and
/var/zookeeper is less than 80%. |
+-----+
+-----+
| HDD health check     |
PASS                                     | Checks if any drive is in
blacklisted state.       |
+-----+
+-----+
| DNS check           | PASS
|                                     | Checks if configured DNS is reachable.
+-----+
+-----+
| Timestamp check     |
PASS                                     | Checks if the timestamp is same
across all Nodes.       |
+-----+
+-----+
| NTP sync check      |
PASS                                     | Checks if the NTP is synced with
NTP server.             |
+-----+
+-----+

```



```

| Check package & versions          |
PASS                                | Checks for count and version of
HX packages on each node.          |
+-----+-----+
| Check Iptables count              |
PASS                                | Checks if the IP Table count
matches on all nodes.              |
+-----+-----+
| Cache Disks check                 | PASS
| Checks the number of Cache Disks. |
+-----+-----+
| Extra pnodes check                |
PASS                                | Checks for any stale Node
entry.                              |
+-----+-----+
| Memory usage check                |
PASS                                | Checks for available memory more
than 2GB.                           |
+-----+-----+
| Incidence of OOM in the log file |
PASS                                | Checks for any previous
incidence of Out Of Memory Condition. |
+-----+-----+
| Check permissions for /tmp         | PASS
| Checks if the /tmp permissions are
set correctly.                      |
+-----+-----+
| Check Cluster Access Policy        |
Lenient                             | Checks the Configured Cluster
Access Policy                       |
+-----+-----+
| Check CMIP Hostname                |
PASS                                | Check if the clustermanagementip
has hostname defined.              |
+-----+-----+
| Domain join health                 | Name = hyper11-stc
| Checking domain join health of the Node. |
| Domain =                            |
HX.LOCAL                            |
|                                     |
|                                     | Distinguished Name = CN=HYPER11-
|                                     | STC,OU=HYPER10,DC=hx,DC=local |
+-----+-----+

```

HX Controller: 10.8.16.67

Test Summary:

```

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

```

```

| Cluster services check          |
PASS                               | Checks storfs, stMgr, sstNodeMgr
service running on each node. |
+-----+
+-----+
| Enospc state check             |
PASS                               | Checks if the cluster storage
utilization is above threshold. |
+-----+
+-----+
| Zookeeper check                |
PASS                               | Checks if Zookeeper service is
running.                          |
+-----+
+-----+
| Exhibitor check                | PASS
                               | Checks if Exhibitor in
running.                          |
+-----+
+-----+
| System Disks Usage             |
PASS                               | Checks if /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 = 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 | | Check if
HYPER10 the hostname is defined. |
+-----+
+-----+
| Cluster Failover | | Check if
Installed the Failover Cluster Manager feature is installed. |
+-----+
+-----+
| Hyper-V Role | | Check if
Installed 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
| | | |
| | 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.

```

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 |  
9000 | Check MTU  
for the Storage Data Network. |

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

| Check the Domain and forest details | Description : HXDC-DOMAIN  
| Check the Domain and forest details of the cluster.

|  
| | DnsForestName :  
hx.local |

| | DomainControllerAddress :  
\\10.8.12.254 |

| | DomainControllerName :  
\\HXDC |

| | DomainName : HXDC-DOMAIN

| | Status :  
OK |

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

| Check host file entries  
| Check if the host file have correct entries.

| | 10.8.18.67 | HYPER10-SMB.hx.local

| | 10.8.18.69 | HYPER10-SMB.hx.local

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

| Check Adapter details | InterfaceAlias  
InterfaceDescription IPv4Address | Check Adapter details of the  
node. |

| | ----- |  
| | vswitch-hx-inband-mgmt | Hyper-V Virtual  
Ethernet Adapter {10.8.16.63} |

| | vswitch-hx-storage-data | Hyper-V Virtual  
Ethernet Adapter #2 {10.8.18.63} |

| | vswitch-hx-vm-network | Hyper-V Virtual  
Ethernet Adapter #3 {10.8.19.63} |

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

```

| vswitch-hx-livemigration Hyper-V Virtual
Ethernet Adapter #4 {10.8.17.63}
|
| vEthernet (New Virtual Switch) Hyper-V Virtual
Ethernet Adapter #5 {169.254.18.96} |

```

```

+-----+-----+
+-----+-----+
| Drivers test | Filter Name | Num Instances |
Altitude Frame | Check the status of minifilter drivers.
| | | |
| | | |
-----
| | | |
404900 0 | | | 1 |
| | | |
| | | |
404800 0 | | | 0 |
| | | |
| | | |
261160 0 | | | 1 |
| | | |
| | | |
244000 0 | | | 2 |
| | | |
| | | |
202000 0 | | | 0 |
| | | |
| | | |
189900 0 | | | 0 |
| | | |
| | | |
180451 0 | | | 0 |
| | | |
| | | |
141100 0 | | | 0 |
| | | |
| | | |
135100 0 | | | 0 |
| | | |
| | | |
135000 0 | | | 1 |
| | | |
| | | |
46000 0 | | | 1 |
| | | |
| | | |
40700 0 | | | 1 |
| | | |
+-----+-----+
+-----+-----+

```

```

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

```

```

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

```

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.

## 툴 출력 분석 - 다음 단계

- 이 툴은 Hyperflex Systems에서 수동 명령을 실행하는 프로세스를 자동화합니다.
- 도구가 OK를 실행하고 모든 테스트에서 PASS/COMPLETED를 제공하는 경우HX 시스템은 스크립트가 수행한 모든 검사에 적합합니다.
- 툴이 일부 검사에서 실패하거나 성공적으로 실행되지 않는 경우 CLI 명령(아래 참조)을 사용하여 스크립트에서 수동으로 수행한 것과 동일한 Hyperflex System에 대해 동일한 검사를 수행할 수 있습니다.
- 이 툴은 이전/신규/열기/해결된 경고를 확인하지 않으므로 업그레이드 또는 유지 보수 작업을 수행하기 전에 Hyperflex 릴리스 정보 및 업그레이드 가이드를 검토하는 것이 좋습니다.

참고: DO NOT 스크립트를 실행하지 못했기 때문에 TAC 케이스를 엽니다. 수동으로 명령을 실행하고 문제를 식별한 다음 식별된 문제에 대한 SR을 여십시오.

## CLI 명령

### Hyperflex SCVM에서

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
```

### HyperV 노드 -

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  
entries
```

```
# test-path\\<smb-share name fqdn>\<datastore name> 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*
```