

# Hypercheck : Health & hyperflex ; Outil de vérification de pré-mise à niveau

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## Introduction

Ce document décrit le processus d'exécution de l'outil d'intégrité et de pré-mise à niveau Hypercheck. Cet outil est un utilitaire qui permet d'effectuer des auto-vérifications proactives sur les systèmes hyperflex afin d'assurer sa stabilité et sa résilience. Il permet d'automatiser une liste de contrôles d'intégrité et de pré-mise à niveau sur les systèmes hyperflex afin de gagner du temps lors des opérations de mise à niveau et de maintenance des hyperflex.

**REMARQUE:** Téléchargez toujours la dernière version de l'outil avant de l'utiliser. Étant donné que l'outil est fréquemment amélioré, l'utilisation d'une version antérieure peut entraîner l'absence de vérifications importantes.

## Systèmes HX pris en charge

- Versions Hyperflex - 1.8, 2.0, 2.1, 2.5, 2.6, 3.0, 3.5, 4.0
- Cluster Hyperflex Standard
- Cluster à extension hyperflex
- Cluster de périphérie hyperflex (2 noeuds, 3 noeuds et 4 noeuds)
- Prise en charge uniquement sur le cluster Hyperflex sur VMWare ESXi

**REMARQUE:** Comment exécuter **Hypercheck** sur le cluster **HyperV hyperflex**, rendez-vous sur le site

<https://www.cisco.com/c/en/us/support/docs/hyperconverged-infrastructure/hyperflex-hx-data-platform/216027-hypercheck-hyperflex-health-pre-upgr.html>

## Quand utiliser

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

# Comment utiliser

**Étape 1.** Téléchargez Hyperflex-Hypercheck.zip à partir du compte de développement github de Cisco [ici](#). Veuillez obtenir la dernière copie qui contiendra les dernières améliorations et mises à jour.

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

CiscoDevNet / Hyperflex-Hypercheck 1

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Perform pro-active self checks on your Hyperflex cluster to ensure stability and resiliency Edit

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12 commits 1 branch 0 releases 2 contributors MIT

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Clone with HTTPS 2 Use SSH  
Use Git or checkout with SVN using the web URL.  
/CiscoDevNet/Hyperflex-Hypercheck.git

Open in Desktop Download ZIP 3 3 days ago

avshukla Update ReadMe.txt	
HXTool.py	Update HXTool.py
LICENSE.txt	initial version
ReadMe.txt	Update ReadMe.txt
TestInfo.txt	Update TestInfo.txt
prettytable.py	initial version 3 3 days ago
progressbar.py	initial version 3 days ago

**Étape 2.** Téléchargez-le sur la machine virtuelle SCVM (Storage Controller VM) avec le protocole CMIP (Cluster Management IP)

Utilisez votre méthode préférée - **scp/sftp/ftp/tftp** - pour copier le fichier Hyperflex-Hypercheck.zip dans le répertoire **/tmp**

**Pour MAC :**

Exécuter la 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 dans lequel vous exécutez scp)

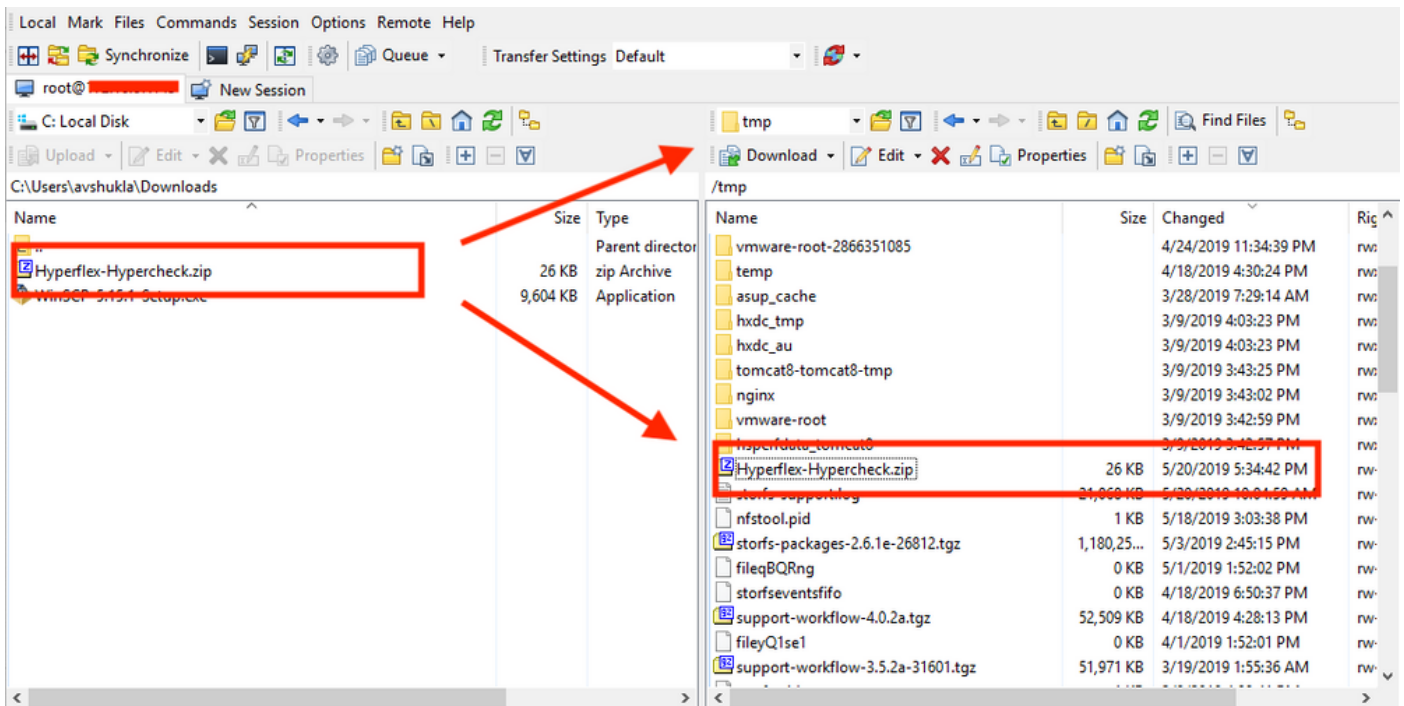
```
# scp Hyperflex-Hypercheck.zip root@<scvm-eth0:mgmtip>:/tmp/
```

Utilisez les éléments suivants pour identifier l'adresse IP de gestion de cluster dans votre environnement HX - [Guide de lecture Hyperflex](#)

```
[AVSHUKLA-M-Q13M:Downloads avshukla$ scp Hyperflex-Hypercheck.zip root@██████████:/tmp/  
HyperFlex StorageController 3.5(2a)  
root@██████████: 's password:  
Hyperflex-Hypercheck.zip 100% 26KB 107.4KB/s 00:00  
[AVSHUKLA-M-Q13M:Downloads avshukla$  
[AVSHUKLA-M-Q13M:Downloads avshukla$
```

**Pour Windows :**

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



Étape 3. Extraire le contenu de Hyperflex-Hypercheck.zip

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

```
root@SpringpathController7PVQWP6WV1:~# cd /tmp/
```

Tapez `unzip Hyperflex-Hypercheck.zip` pour extraire les fichiers

```
root@SpringpathController7PVQWP6WV1:/tmp# unzip Hyperflex-Hypercheck.zip
Archive:  Hyperflex-Hypercheck.zip
b61c59f7962b72902692ce70548ba3d760efdf06
  creating:  Hyperflex-Hypercheck/
  inflating:  Hyperflex-Hypercheck/HXTool.py
  inflating:  Hyperflex-Hypercheck/LICENSE.txt
  inflating:  Hyperflex-Hypercheck/ReadMe.txt
  inflating:  Hyperflex-Hypercheck/TestInfo.txt
  inflating:  Hyperflex-Hypercheck/prettytable.py
  inflating:  Hyperflex-Hypercheck/progressbar.py
root@SpringpathController7PVQWP6WV1:/tmp#
```

Étape 4. Exécuter le script HXTool Python

Tapez `cd Hyperflex-Hypercheck` pour accéder au répertoire `Hyperflex-Hypercheck`

```
root@SpringpathControllerABCDE01234:/tmp# cd Hyperflex-Hypercheck
```

Tapez `python HXTool.py` pour exécuter le script

```
root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# python HXTool.py
```

Étape 5. Entrez le mot de passe racine SCVM lorsque vous y êtes invité

```
Please enter below info of HX-Cluster:
Enter the HX-Cluster Root Password:
Enter the ESX Root Password:
```

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

Étape 6. L'outil Hyperflex-Hypercheck démarre ses vérifications. L'exécution prendra entre 3 et 10 minutes en fonction du nombre de noeuds convergents dans le cluster

Étape 7. Présentation des résultats/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

**vCenter reachability check** - Checks whether the vCenter is reachable on the required ports

**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.

**Extra pnodes check** - Looks for any extra/duplicate pnode entries in the cluster

**Out of memory check** - Checks through the log files if the cluster had any oom event

**Supported vSphere versions** - Shows all the vSphere Versions supported with your current HXDP version

**Permissions for /tmp** - Checks if the /tmp permissions are set correctly

**Check Cluster Policy** - Checks the Configured Cluster Policy

**Check springpath\_keystore.jceks file** - Check if All the SCVM have same keystore file

**SED Capable** - Checks if the cluster is SED Capable

**SED Enabled** - Checks if Encryption is enabled in the Cluster

**USB-0 Check** - If Encryption is enabled, Checks that USB0 interface is present on all the SCVMs

**SED 5100/5200 Drive Check** - If we have Micron SED 5100 drives and version is below 3.5.2b, we wont be able to replace or add new 5200 drives

**Disk Lock Check** - If Encryption is enabled, Checks for any Locked drives

**Network Checks** - Checks the connectivity in Storage network

**Check ZK-Cleanup-Script** - Checks to identify ZKTxnCleanUp Script

**ESXi Checks:** (Below checks are performed on each ESXI node)

**HX User Account check** - Verifies if the HXUser is created on all the esxi hosts and has admin rights

**vMotion enabled check** - Checks if the vMotion network is configued

**Check for ESXi Failback timer** - Check for ESXi Failback timer on ESXi host

**Check connectivity between vmk1 and eth1** - Checks the connectivity between the Mgmt and Storage network

**No extra controller vm folders check** - Checks for duplicate Controller SCVM Folders

**VMware Tools location check** - Checks for Non default VMware Tools location

**vfat Disk Usage check** - Checks for vfat Disk Usage

**Check /tmp usage** - Checking for /tmp usage

Étape 8. Obtenir le rapport des sorties de script. Vous pouvez l'obtenir comme indiqué ci-dessous.

Le fichier tar du rapport Hypercheck est enregistré sous **/var/log/springpath** et **/tmp/Hyperflex-Hypercheck**. Vous pouvez donc télécharger le bundle tar à partir de under **/var/log/springpath** ou **/tmp/Hyperflex-Hypercheck**. Vous pouvez également **générer et télécharger un bundle storfs-support** qui contiendra également le tar du rapport hypercheck.

Exemple de fichier tar de rapport - **HX\_Report\_2020\_08\_30\_10\_43\_50.tar** est copié vers le chemin d'accès : /var/log/springpath

Tapez **ls -l | grep HX\_Report** pour consulter les fichiers créés par l'outil Hyperflex-Hypercheck

Under /var/log/springpath,

```
root@SpringpathControllerABCDE01234:/var/log/springpath# ls -l | grep HX_Report
-rw-r--r-- 1 root root 380K Sep 23 15:41 HX_Report_2020_08_30_10_43_50.tar
root@SpringpathControllerABCDE01234:/var/log/springpath#
```

Under /tmp/Hyperflex-Hypercheck,

```
root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# ls
HX_Report_2020_08_30_10_43_50.tar prettytable.py HX_Report_2020_08_30_10_43_50 TestInfo.txt
progressbar.py
HXTool.py prettytable.pyc ReadMe.txt progressbar.pyc LICENSE.txt
root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck#
```

Fichiers et journaux dans l'ensemble de journaux Hypercheck -

```
root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# ls HX_Report_2020_08_30_10_43_50/
HX_Tool_2020-08-30_10-43-50.log
HX_Tool_Main_Report_2020-08-30_10-54-34.txt
HX_Tool_Summary.json
```

Étape 9. Exportez **HX\_YYY\_MM\_DD\_HH\_MM\_SS.tar** et partagez-le avec le TAC.

Utilisez votre méthode préférée pour exporter les journaux Hypercheck à l'aide de **scp/sftp/ftp/tftp** à partir de SCVM ou vous pouvez simplement télécharger le bundle de support storfs qui contiendra le bundle tar **HX\_Report**.

Étape 10. Exemple de sortie HXTool à partir d'un cluster étendu à 4 noeuds.

Please enter below info of HX-Cluster:

Enter the HX-Cluster Root Password:

Enter the ESX Root Password:

Cluster Name: HX-10-Stretched

Site-100

Site-97

Cluster Type: STRETCH\_CLUSTER

SSH connection established to HX Node: 192.168.53.135

SSH connection established to HX Node: 192.168.53.136

SSH connection established to HX Node: 192.168.53.137

SSH connection established to HX Node: 192.168.53.138

HX Cluster Nodes:

```
+-----+-----+-----+
| Nodes | IP Address | HostName |
+-----+-----+-----+
| 1     | 14.39.53.134 | SpringpathControllerOHCWUK9X3N |
+-----+-----+-----+
```

```

| 2      | 14.39.53.135 | SpringpathController37MHMEIBCY |
+-----+-----+-----+
| 3      | 14.39.53.136 | SpringpathControllerDWRWWIBFLF |
+-----+-----+-----+
| 4      | 14.39.53.137 | SpringpathControllerWB4UNXDKX3 |
+-----+-----+-----+

```

```

SSH connection established to ESX Host: 14.39.53.133
SSH connection established to ESX Host: 14.39.53.130
SSH connection established to ESX Host: 14.39.53.132
SSH connection established to ESX Host: 14.39.53.131

```

HX Controller: 192.168.53.135

```

Cluster services check      [#####] COMPLETED
ZooKeeper & Exhibitor check [#####] COMPLETED
HDD health check           [#####] COMPLETED
Pre-Upgrade Check         [#####] COMPLETED
Network check              [#####] COMPLETED

```

HX Controller: 192.168.53.136

```

Cluster services check      [#####] COMPLETED
ZooKeeper & Exhibitor check [#####] COMPLETED
HDD health check           [#####] COMPLETED
Pre-Upgrade Check         [#####] COMPLETED
Network check              [#####] COMPLETED

```

HX Controller: 192.168.53.137

```

Cluster services check      [#####] COMPLETED
ZooKeeper & Exhibitor check [#####] COMPLETED
HDD health check           [#####] COMPLETED
Pre-Upgrade Check         [#####] COMPLETED
Network check              [#####] COMPLETED

```

HX Controller: 192.168.53.138

```

Cluster services check      [#####] COMPLETED
ZooKeeper & Exhibitor check [#####] COMPLETED
HDD health check           [#####] COMPLETED
Pre-Upgrade Check         [#####] COMPLETED
Network check              [#####] COMPLETED

```

HX Controller: 192.168.53.135

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 is less than 80%.	PASS	Checks if /sdal, var/stv and /var/zookeeper
HDD Health check state.	PASS	Checks if any drive is in blacklisted state.
DNS check	PASS	Checks if configured DNS is reachable.
vCenter reachability check using PING.	PASS	Checks if vCenter is network reachable
Timestamp check Nodes.	PASS	Checks if the timestamp is same across all
NTP sync check server.	PASS	Checks if the NTP is synced with NTP
Check package & versions on each node.	PASS	Checks for count and version of HX packages
Check Iptables count nodes.	PASS	Checks if the IP Table count matches on all
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 Memory Condition.	PASS	Checks for any previous incidence of Out Of
Supported vSphere versions	6.0.0-U3	Prints the supported ESXi versions.
	6.5.0-U1	
	6.5.0-U2	
	6.5.0-U3	
	6.7.0-UGA	
	6.7.0-U1	
	6.7.0-U2	
	6.7.0-U3	
Check permissions for /tmp	PASS	Checks if the /tmp permissions are set

correctly.

Check Cluster Policy	Lenient	Checks the Configured Cluster Policy	
Check springpath_keystore.jceks file	PASS	All the SCVM have same keystore file.	
SED Capable	NO	Checks if the cluster is SED Capable.	
Check Witness Reachability	PASS	Checks Witness VM IP address is reachable.	
Check ZK-Cleanup-Script	PASS	Checks to identify ZKTxnCleanUp Script.	
HX Controller: 192.168.53.136 Test Summary:			
Result	Comments	Name	
	Cluster services check	PASS	Checks storfs, stMgr, sstNodeMgr service running on each node.
PASS	Enospc state check		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.
	vCenter reachability check	PASS	Checks if vCenter is network reachable using PING.
	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.
	Extra pnodes check	PASS	Checks for any stale Node entry.
	Memory usage check	PASS	Checks for available memory more than 2GB.
PASS	Incidence of OOM in the log file		Checks for any previous incidence of Out Of Memory Condition.
	Supported vSphere versions	6.0.0-U3	Prints the supported ESXi versions.     6.5.0-U1       6.5.0-U2       6.5.0-U3       6.7.0-UGA       6.7.0-U1       6.7.0-U2       6.7.0-U3
	Check permissions for /tmp	PASS	Checks if the /tmp permissions are set correctly.
	Check Cluster Policy	Lenient	Checks the Configured Cluster Policy
	Check springpath_keystore.jceks file	PASS	



```

| All the SCVM have same keystore file. | +-----+-----+-----+-----+
-----+ | SED Capable | NO | Checks if
the cluster is SED Capable. | +-----+-----+-----+-----+
-----+ | Check Witness Reachability | PASS | Checks
Witness VM IP address is reachable. | +-----+-----+-----+-----+
-----+
| Check ZK-Cleanup-Script | PASS | Checks to identify ZKTxnCleanUp Script. |
+-----+-----+-----+-----+
-----+ HX Controller: 192.168.53.137 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. | +-----+-----+
-----+ |
vCenter reachability check | PASS | Checks if vCenter is network reachable using PING. | +-----+
-----+ |
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. | +-----+-----+-----+-----+
-----+ |
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. | +-----+-----+
-----+ |
Supported vSphere versions | 6.0.0-U3 | Prints the supported ESXi versions. | | 6.5.0-U1 | | |
| 6.5.0-U2 | | | 6.5.0-U3 | | | 6.7.0-UGA | | | 6.7.0-U1 | | | 6.7.0-U2 | | | 6.7.0-U3
| | +-----+-----+-----+-----+
-----+ |
Check permissions for /tmp | PASS | Checks if the /tmp permissions
are set correctly. | +-----+-----+-----+-----+
-----+ |
Check Cluster Policy | Lenient | Checks the
Configured Cluster Policy | +-----+-----+-----+-----+
-----+ |
Check springpath_keystore.jceks file | PASS
| All the SCVM have same keystore file. | +-----+-----+-----+-----+
-----+ | SED Capable | NO | Checks if
the cluster is SED Capable. | +-----+-----+-----+-----+
-----+ | Check Witness Reachability | PASS | Checks
Witness VM IP address is reachable. | +-----+-----+-----+-----+
-----+
| Check ZK-Cleanup-Script | PASS | Checks to identify ZKTxnCleanUp Script. |
+-----+-----+-----+-----+
-----+ HX Controller: 192.168.53.138 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. | +-----+
-----+-----+-----+-----+ |
vCenter reachability check | PASS | Checks if vCenter is network reachable using PING. | +-----+
-----+-----+-----+-----+ |
-----+ | 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. | +-----+-----+-----+-----+ |
-----+ | 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. | +-----+
-----+-----+-----+-----+ |
Supported vSphere versions | 6.0.0-U3 | Prints the supported ESXi versions. | | | 6.5.0-U1 | | |
| 6.5.0-U2 | | | | 6.5.0-U3 | | | | 6.7.0-UGA | | | | 6.7.0-U1 | | | | 6.7.0-U2 | | | | 6.7.0-U3
| | +-----+-----+-----+-----+ |
-----+ | Check permissions for /tmp | PASS | Checks if the /tmp permissions
are set correctly. | +-----+-----+-----+-----+ |
-----+ | Check Cluster Policy | Lenient | Checks the
Configured Cluster Policy | +-----+-----+-----+-----+ |
-----+ | Check springpath_keystore.jceks file | PASS
| All the SCVM have same keystore file. | +-----+-----+-----+-----+ |
-----+ | SED Capable | NO | Checks if
the cluster is SED Capable. | +-----+-----+-----+-----+ |
-----+ | Check Witness Reachability | FAIL | Checks
Witness VM IP address is reachable. | +-----+-----+-----+-----+ |
-----+-----+
| Check ZK-Cleanup-Script | PASS | Checks to identify ZKTxnCleanUp Script. |
+-----+-----+-----+-----+
-----+
##### Network check:
##### ESX vmk0:
14.39.53.130, 14.39.53.131, 14.39.53.132, 14.39.53.133 ESX vmk1: 192.168.53.130, 192.168.53.131,
192.168.53.132, 192.168.53.133 SCVM eth0: 14.39.53.134, 14.39.53.135, 14.39.53.136, 14.39.53.137
SCVM eth1: 192.168.53.135, 192.168.53.136, 192.168.53.137, 192.168.53.138 ESX Host: 14.39.53.130
+-----+-----+-----+-----+
--+ | Name | Result | Comments | +-----+-----+-----+-----+ |
-----+-----+-----+-----+ | HX User Account check | PASS | Checks if HXUSER is
present. | +-----+-----+-----+-----+ |
-----+ | vMotion enabled check | PASS | Checks if vMotion is enabled on the host. | +-----+
-----+-----+-----+-----+ |
| Check for ESXI Failback timer | PASS | Checks for ESXi FAILBACK timer set to 30000ms. | +-----+
-----+-----+-----+-----+ |
Check vmk1 ping to eth1 | PASS | Checks Network between ESXi vmk1 and SCVM eth1. | +-----+
-----+-----+-----+-----+ | No
extra controller vm folders check | PASS | Checks for duplicate Controller SCVM Folders. | +-----+
-----+-----+-----+-----+ |
```

```

VMware Tools location check | PASS | Checks for Non default VMware Tools location. | +-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | vfat
Disk Usage check | PASS | Checks for vfat Disk Usage. | +-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+-----+ | Check /tmp usage | PASS |
Checking for /tmp usage. | +-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+ ESX Host: 14.39.53.131 +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ | Name | Result | Comments | +-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | HX
User Account check | PASS | Checks if HXUSER is present. | +-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | vMotion enabled check | PASS |
Checks if vMotion is enabled on the host. | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | Check for ESXI Failback timer | PASS | Checks
for ESXi FAILBACK timer set to 30000ms. | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | Check vmk1 ping to eth1 | PASS | Checks Network
between ESXi vmk1 and SCVM eth1. | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | No extra controller vm folders check | PASS | Checks
for duplicate Controller SCVM Folders. | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | VMware Tools location check | PASS | Checks for
Non default VMware Tools location. | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | vfat Disk Usage check | PASS | Checks for vfat Disk
Usage. | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | Check /tmp usage | PASS | Checking for /tmp usage. | +-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ ESX Host: 14.39.53.132
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+ | Name | Result | Comments | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | HX User Account check | PASS | Checks if HXUSER is
present. | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | vMotion enabled check | PASS | Checks if vMotion is enabled on the host. | +-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Check for ESXI Failback timer | PASS | Checks for ESXi FAILBACK timer set to 30000ms. | +-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ |
Check vmk1 ping to eth1 | PASS | Checks Network between ESXi vmk1 and SCVM eth1. | +-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | No
extra controller vm folders check | PASS | Checks for duplicate Controller SCVM Folders. | +-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ |
VMware Tools location check | PASS | Checks for Non default VMware Tools location. | +-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+ | vfat
Disk Usage check | PASS | Checks for vfat Disk Usage. | +-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+-----+ | Check /tmp usage | PASS |
Checking for /tmp usage. | +-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+ Main Report File: HX_Tool_Main_Report_2020-08-26_09-54-59.txt
Report tar file: HX_Report_2020_08_26_09_43_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) If upgrading to HX 4.0(2a), please
review the following link and perform workaround - https://tinyurl.com/wc7j5qp 2) Please check
the status of Compute nodes manually, script only verifies the config on the converged nodes. 3)
Hypercheck doesnot perform FAILOVER TEST, so please ensure that the upstream is configured for
network connectivity for JUMBO or NORMAL MTU size as needed.

```

## Analyser la sortie de l'outil - Étapes suivantes

- L'outil automatise le processus d'exécution des commandes manuelles sur les systèmes Hyperflex.
- Si l'outil fonctionne **OK** et donne **PASS** à tous les tests. Le système HX est bon pour toutes les vérifications effectuées par le script.
- Dans les situations où l'outil **échoue** sur certaines vérifications ou ne fonctionne pas correctement, vous pouvez utiliser les commandes CLI (listées ci-dessous) pour effectuer les mêmes vérifications sur Hyperflex System que le script manuellement.

- L'outil **NE** vérifie **PAS** les mises en garde 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.

*REMARQUE : **NE PAS** ouvrir un dossier TAC car le script n'a pas pu s'exécuter. 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

# stcli disk list --ip <Corresponding ESXi Mgmt IP Address> |grep -B 2 -A 8 blacklisted

# stcli services dns show (and ping the IPs listed)

# ping <vCenter IP Address>

# date ; compare the time on all SCVMs. They should ideally be identical

# stcli services ntp show

# stcli cleaner info

# ntpq -p -4

# dpkg -l | grep -i springpath

# iptables -L -n | wc -l

# stcli cluster info

# df -h ; check that /var/stv should be less than 80%

# zgrep -i "out of memory" /var/log/springpath/debug-storfs.*

# ping -I eth0 <eth0> of all SCVMs

# ping -I eth1 <eth1> of all SCVMs

# "ls -ld /tmp" check for 775 and 777

# stcli cluster info | grep -i 'clusterAccessPolicy:' | head -1

# md5sum /etc/springpath/secure/springpath_keystore.jceks

# cat /etc/springpath/sed_capability.conf

# cat /etc/springpath/sed.conf
```

```
# cat /var/log/springpath/diskslotmap-v2.txt
```

```
# stcli cluster info | grep dataZkIp (ping dataZkIp for latency)
```

## Sur les systèmes ESXi -

SSH to all ESXi hosts

```
# esxcli system account list
```

```
# esxcli network firewall ruleset list | grep -i vMotion
```

```
# esxcli software vib list | grep -i spring
```

```
# esxcfg-vmknic -l ; confirm that vMotion VMK2 is created
```

```
# vmkping -I vmk1 <eth1> of all SCVMs
```

```
# cd /vmfs/volumes/Springpath-XXXXXXXXXX ; Ensure that it has only one Folder that has the Storage Controller VM
```

```
# df -h | grep vfat ; Ensure dir has free space
```