

Hypercheck : & de santés de Hyperflex ; Outil de contrôle de Pré-mise à jour

Contenu

[Introduction](#)

[Systèmes pris en charge HX](#)

[Quand utiliser](#)

[Comment utiliser](#)

[Analysez l'outil sorti - Étapes suivantes](#)

[Commandes CLI](#)

Introduction

Ce document décrit le processus pour exécuter l'outil de santés et de Pré-mise à jour de Hypercheck. Cet outil est un utilitaire pour exécuter des auto-tests proactifs sur des systèmes de hyperflex pour assurer sa stabilité et résilience. Il aide à automatiser une liste de contrôles de santés et de pré-mise à jour sur des systèmes de hyperflex pour épargner le temps pendant les exécutions de mise à jour et de maintenance de hyperflex.

Systèmes pris en charge HX

- Versions 2.6 de Hyperflex, 3.0, 3.5, 4.0
- Batterie de norme de Hyperflex
- Batterie de périphérie de Hyperflex (noeud 3 noeud et 4)
- Seulement pris en charge sur la batterie de Hyperflex sur le VMware ESXi

Quand utiliser

- Avant des mises à jour de Hyperflex.
- Vérification de l'intégrité de Hyperflex avant et après des fenêtres de maintenance
- Pour identifier les lecteurs/disques défectueux.
- En fonctionnant avec Cisco TAC
- Vérification de l'intégrité proactive n'importe quand.

Comment utiliser

Étape 1. Le téléchargement Hyperflex-Hypercheck.zip du devnet de github de Cisco rendent compte [ici](#). Veuillez obtenir la dernière copie qui aura les dernières améliorations et mises à jour.

REMARQUE: Utilisez seulement le script téléchargé du compte de devnet de github de Cisco.

CiscoDevNet / Hyperflex-Hypercheck **1**

Unwatch 15 Star 0 Fork 1

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

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

Manage topics

12 commits 1 branch 0 releases 2 contributors MIT

Branch: master New pull request Create new file Upload files Find File **Clone or download** **2** Use SSH

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

Open in Desktop **Download ZIP**

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-la à la VM de contrôleur de mémoire (SCVM) avec l'IP de gestion de clusters (le CMIP)

Employez votre méthode préférée - **scp/sftp/FTP/tftp** - pour copier le Hyperflex-Hypercheck.zip sur le répertoire de /tmp

Pour le MAC :

Exécutez le SCP du CLI (confirmez s'il vous plaît que le Hyperflex-Hypercheck.zip est dans le même répertoire d'où vous exécutez le scp)

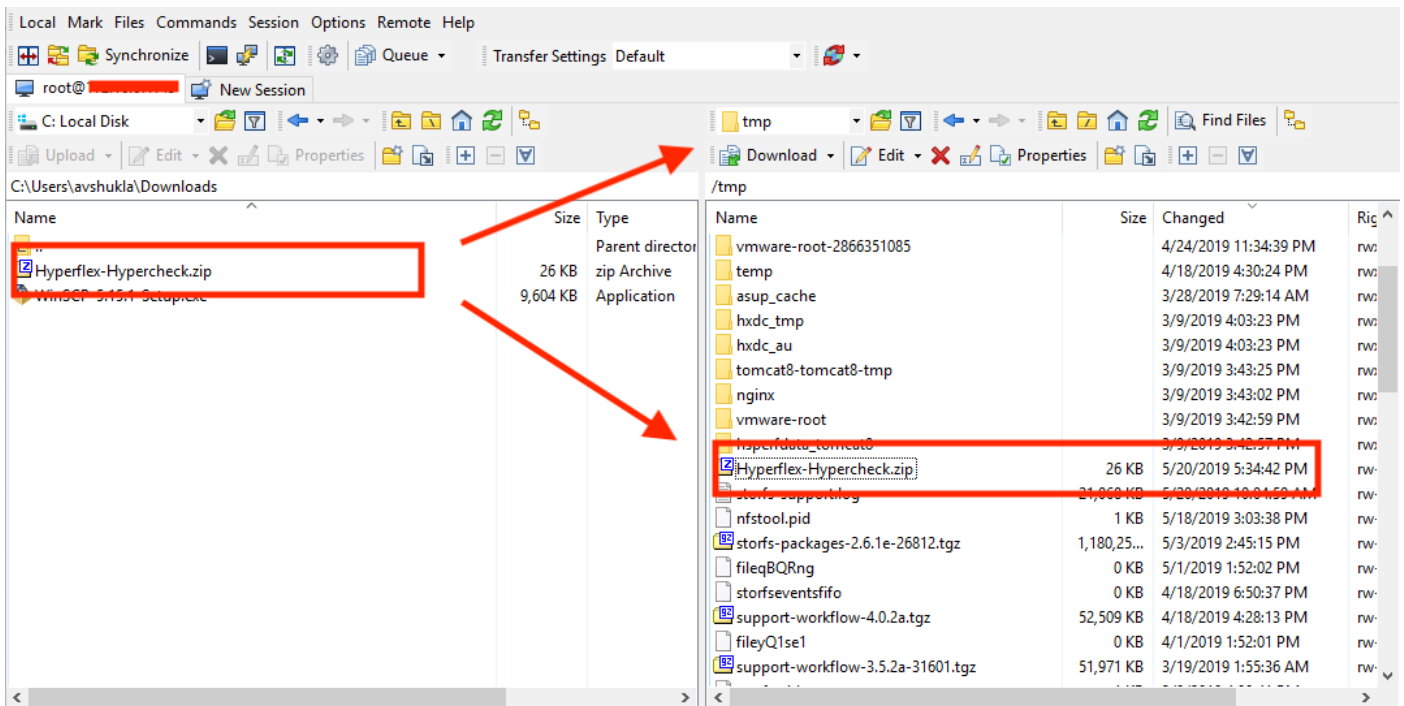
```
# scp Hyperflex-Hypercheck.zip root@<scvm-eth0:mgmtip>:/tmp/
```

Employez le suivant pour identifier l'IP de gestion de clusters dans votre [guide de Hyperflex d'environnement HX](#)

```
[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 employer WINSCP pour transférer les fichiers comme affiché ci-dessous



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

Tapez le `cd /tmp` pour changer en le répertoire de `/tmp`

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

Le type défonce la fermeture éclair de `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. Exécutez le script de python de HXTool

Tapez le `cd Hyperflex-Hypercheck` pour aller au répertoire de `Hyperflex-Hypercheck`

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

Python `HXTool.py` de type `python` pour exécuter le script

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

Étape 5. Entrez le mot de passe root SCVM une fois incité

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

Étape 6. L'outil de Hyperflex-Hypercheck commence ses contrôles. Cela prendra environ 3-10 minutes pour que l'exécution se termine selon le nombre de Noeuds convergés dans la batterie

Étape 7. Compréhension des sorties/contrôles exécutés

Les contrôles suivants sont exécutés 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.

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.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.

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

Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.

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.

Network Checks - Checks the connectivity between Mgmt and Storage network.

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 configured.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Étape 8. Obtenez l'état des sorties de script

Des sorties détaillées de par-noeud sont placées dans un répertoire

Le répertoire est créé avec le nom **HX_Report_<date>**

Il se trouve dans le répertoire de **/tmp/ Hyperflex-Hypercheck**

Tapez **LS HX_Report_<date>** pour examiner les fichiers créés par l'outil de Hyperflex-Hypercheck

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.

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.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.

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

Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.

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.

Network Checks - Checks the connectivity between Mgmt and Storage network.

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 configured.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Goudron de type - cvf report.tar HX_Report_<date> pour placer tous les fichiers dans un tarfile

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.

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.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.

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

Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.

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.

Network Checks - Checks the connectivity between Mgmt and Storage network.

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 configured.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Le type LS pour confirmer le fichier de report.tar est créé dans le répertoire de /tmp/ Hyperflex-Hypercheck

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.

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.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.
Extra pnodes check - Looks for any extra/duplicate pnode entries in the cluster.
Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.
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.

Network Checks - Checks the connectivity between Mgmt and Storage network.

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 configured.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Étape 9. Exportez Report.tar et partagez-le avec le TAC (si nécessaire)

Employez votre méthode préférée - scp/sftp/FTP/tftp - pour exporter report.tar du SCVM

Étape 10. Échantillon HXTool sorti d'une batterie 3-node.

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.

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.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.

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

Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.

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.

Network Checks - Checks the connectivity between Mgmt and Storage network.

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 configured.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Analysez l'outil sorti - Étapes suivantes

- L'outil automatise le processus d'exécuter des commandes manuelles sur des systèmes de Hyperflex.
- Si l'outil fonctionne **CORRECT** et donne **TRANSMETTEZ** tous les tests. Le système HX est bon pour tous les contrôles que le script a exécutés.
- Dans les situations où, l'outil **ÉCHOUE** sur certains vérifie ou ne fonctionne pas avec succès,

vous peut utiliser les commandes CLI (répertoriées ci-dessous) d'exécuter les mêmes contrôles sur le système de Hyperflex que fait par le script manuellement.

- L'outil ne vérifie pas mises en garde vieilles/nouvelles/ouvertes/résolues et par conséquent il en est fortement recommandé de passer en revue des **notes de mise à jour en Hyperflex et des guides de mise à jour** avant activité de mise à jour ou de maintenance.

REMARQUE: N'ouvrez pas une valise TAC parce que le script n'a pas fonctionné. Veuillez exécuter les commandes manuellement, identifiez la question et ouvrez un SR pour le problème identifié.

Commandes CLI

Sur Hyperflex SCVM-

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.

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.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.

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

Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.

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.

Network Checks - Checks the connectivity between Mgmt and Storage network.

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 configured.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Sur des systèmes d'ESXi

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.

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.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.

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

Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.

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.

Network Checks - Checks the connectivity between Mgmt and Storage network.

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 configured.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.