

自動執行或編寫集群中ESA的配置檔案備份

目錄

[簡介](#)

[必要條件](#)

[自動執行或編寫集群中裝置的配置檔案備份](#)

[高級自動或指令碼化配置檔案備份](#)

[相關資訊](#)

簡介

本文說明如何使用批處理命令將配置從思科郵件安全裝置(ESA)群集中的裝置儲存。這可以在所有版本的AsyncOS for ESA上使用。

在AsyncOS版本8.5之前，集群裝置無法儲存可用配置，以使用於將配置還原到Cisco ESA。為了從裝置獲取可用配置，您必須從群集中移除裝置並將配置儲存為獨立裝置。

必要條件

附註：本文是概念驗證，並提供了示例依據。雖然這些步驟已經過成功測試，但本文主要用於演示和說明目的。自定義指令碼超出思科的範圍和受支援範圍。思科技術支援中心不會隨時編寫、更新自定義外部指令碼或對其進行故障排除。在嘗試和構建任何指令碼之前，請確保您在構建最終指令碼時具有指令碼編寫知識。

從群集中的ESA收集以下資訊：

- IP地址和/或主機名
- 群集名稱
- 群集組名稱 (如果適用)

有關適用於郵件安全的AsyncOS版本，請參閱[CLI參考指南](#)，因為CLI批次更改取決於ESA運行的修訂版。

閱讀並理解以下TechNotes:

- [如何自動執行配置檔案備份或為其編寫指令碼？](#)
- [如何配置SSH公鑰身份驗證，以便在不使用密碼的情況下登入ESA](#)

自動執行或編寫集群中裝置的配置檔案備份

對於低於8.5版的AsyncOS版本，當您嘗試使用saveconfig或mailconfig命令在集群中儲存配置時，ESA會生成以下警告：

```
WARNING: Clustered machines do not support loadconfig. Your configuration file has complete data for the entire cluster, but cannot be used to restore a configuration.
```

在AsyncOS版本8.5及更高版本中，儲存的配置現在包含機器級配置和群集配置。《8.5版及更高版本使用手冊》對此進行了詳細介紹。請參閱[一般使用者指南](#)以瞭解全部詳細資訊。

無需備份群集中每台裝置的配置。但是，網路中可以有多個群集，每個群集配置多個組。從群集中移除每台裝置，然後儲存配置並重新手動重新加入群集是非常困難的。

如果您登入到ESA，從群集中刪除ESA，儲存或傳送配置，然後重新加入群集，則可以使用這些[命令](#)。

要開始操作，必須知道群集中ESA的電腦名稱和序列號以及組名稱。如果您在CLI上輸入 **clusterconfig list**，就可以獲得此資訊：

```
(Cluster ESA1_ESA2)> clusterconfig list
```

```
Cluster esaA_esaB
=====
Group Main_Group:
Machine ESA1.local (Serial #: 0000E878109A-G091111)
Machine ESA2.local (Serial #: 0000E878525D-9091111)
```

若要從群集中刪除裝置，請使用**clusterconfig removemachine <appliance name>**命令：

```
(Cluster ESA1_ESA2)> clusterconfig removemachine ESA1.local
```

```
Please wait, this operation may take a minute...
Machine ESA1.local removed from the cluster.
```

使用**saveconfig**命令，使用密碼將配置儲存到裝置上。如前所述，「不能使用loadconfig命令載入帶有遮蔽密碼的檔案。」因此，當系統提示時，請務必輸入N:

```
ESA1.local> saveconfig
```

```
Do you want to mask the password? Files with masked passwords cannot be loaded
using loadconfig command. [Y]> n
```

```
File written on machine "esaA.local" to the location
"/configuration/C100V-0000E878109A-G091111-20140909T184724.xml".
Configuration saved.
```

或者，使用**mailconfig**以將配置通過電子郵件傳送給有效的電子郵件收件人。如前所述，「不能使用loadconfig命令載入帶有遮蔽密碼的檔案。」因此，當系統提示時，請務必輸入N:

```
ESA1.local> mailconfig
```

```
Please enter the email address to which you want to send the configuration file.
Separate multiple addresses with commas.
[]> joe@example.com
```

```
Do you want to mask the password? Files with masked passwords cannot be loaded
using loadconfig command. [Y]> n
```

```
The configuration file has been sent to joe@example.com.
```

最後，使用**clusterconfig batch**命令將裝置重新加入群集：

```
clusterconfig join [--port=xx] <ip_of_remote_cluster> <admin_username>
<admin_password> <groupname>
```

若要繼續上一個範例，將在以下命令中執行此動作：

```
esaA.local> clusterconfig join --port=22 172.16.6.161 admin ironport Main_Group
```

Joining a cluster takes effect immediately, there is no need to commit.
(Cluster ESA1_ESA2)>

您會注意到命令提示符自動更改為集群級別名稱，如前面的示例中提到的「集群ESA1_ESA2」。

高級自動或指令碼化配置檔案備份

在外部主機(UNIX/Linux/OSX)上，您可以使用前面的命令對進程編寫指令碼。

以下是寫入指令碼的整個過程的示例，其中假定群集通過安全外殼(SSH)埠22運行：

```
#!/bin/bash
#
# Script to save the ESA config, then copy locally via SCP. This is assuming you
wish to
# have the cluster in SSH via port 22. This script has been written and tested against
# AsyncOS 9.0.0-390 (01/15/2014).
#
# *NOTE* This script is a proof-of-concept and provided as an example basis. While
these steps have
# been successfully tested, this script is for demonstration and illustration purposes.
Custom
# scripts are outside of the scope and supportability of Cisco. Cisco Technical
Assistance will
# not write, update, or troubleshoot custom external scripts at any time.
#
# <SCRIPT>
#
# $HOSTNAME & $HOSTNAME2 can be either the FQDN or IP address of the ESAs in cluster.
#
HOSTNAME= [IP/HOSTNAME ESA1]
HOSTNAME2= [IP/HOSTNAME ESA2]
#
# $MACHINENAME is the local name for ESA1.
#
MACHINENAME= [MACHINENAME AS LISTED FROM 'clusterconfig list']
#
# $USERNAME assumes that you have preconfigured SSH key from this host to your ESA.
# http://www.cisco.com/c/en/us/support/docs/security/email-security-appliance/118305-technote-esa-00.html
#
USERNAME=admin
#
# $BACKUP_PATH is the directory location on the local system.
#
BACKUP_PATH= [/local/path/as/desired]
#
# Following will remove ESA1 from cluster in order to backup standalone config.
# "2> /dev/null" at the end of string will quiet any additional output of the
clustermode command.
#
echo "|=== PHASE 1 ===| REMOVING $MACHINENAME FROM CLUSTER"
ssh $USERNAME@$HOSTNAME "clustermode cluster; clusterconfig removemachine
$MACHINENAME" 2> /dev/null
#
```

```

# $FILENAME contains the actual script that calls the ESA, issues the 'saveconfig'
command.
# The rest of the string is the cleanup action to reflect only the <model>-
<serial number>-<timestamp>.xml.
#
echo "|=== PHASE 2 ===| BACKUP CONFIGURATION ON ESA"
FILENAME=`ssh -q $USERNAME@$HOSTNAME "saveconfig y 1" | grep xml | sed -e
's/\//configuration\///g' | sed 's/\.$//g' | tr -d "\""``
#
# The 'scp' command will secure copy the $FILENAME from the ESA to specified
backup path, as entered above.
# The -q option for 'scp' will disable the copy meter/progress bar.
#
echo "|=== PHASE 3 ===| COPY XML FROM ESA TO LOCAL"
scp -q $USERNAME@$HOSTNAME:/configuration/$FILENAME $BACKUP_PATH
#
# Following will re-add ESA1 back into cluster.
#
echo "|=== PHASE 4 ===| ADDING $MACHINENAME BACK TO CLUSTER"
ssh $USERNAME@$HOSTNAME "clusterconfig join $HOSTNAME2 admin ironport
Main_Group" 2> /dev/null
#
echo "|=== COMPLETE ===| $FILENAME successfully saved to $BACKUP_PATH"
#
# </SCRIPT>
#

```

以下是指令碼中嵌入的主要命令的檢查：

- 從群集中刪除ESA1:

```
ssh $USERNAME@$HOSTNAME "clustermode cluster; clusterconfig removemachine
$MACHINENAME" 2> /dev/null
```

- 下載獨立配置檔案：

```
FILENAME=`ssh -q $USERNAME@$HOSTNAME "saveconfig y 1" | grep xml | sed -e 's/
\//configuration\///g' | sed 's/\.$//g' | tr -d "\""``
```

- 將XML從ESA1複製到本地主機：

```
scp -q $USERNAME@$HOSTNAME:/configuration/$FILENAME $BACKUP_PATH
```

- 將ESA1放回集群中。

```
ssh $USERNAME@$HOSTNAME "clusterconfig join $HOSTNAME2 admin ironport
Main_Group" 2> /dev/null
```

操作中的指令碼的完整示例應會產生以下結果：

```
my_host$ ./cluster_backup
```

```
|=== PHASE 1 ===| REMOVING ESA1.local FROM CLUSTER
Please wait, this operation may take a minute...
Machine ESA1.local removed from the cluster.
|=== PHASE 2 ===| BACKUP CONFIGURATION ON ESA
|=== PHASE 3 ===| COPY XML FROM ESA TO LOCAL
|=== PHASE 4 ===| ADDING ESA1.local BACK TO CLUSTER
Joining a cluster takes effect immediately, there is no need to commit.
|=== COMPLETE ===| C100V-0000E878109A-G091111-20150116T192955.xml successfully
saved to /Users/saved_esa_configurations/
```

相關資訊

- [Cisco Email Security Appliance — 最終使用手冊](#)
- [技術支援與文件 - Cisco Systems](#)