

PI 3.2.使用單行和多行命令建立使用者定義的CLI模板

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簡介

本文檔介紹如何使用單行和多行命令建立使用者定義的CLI模板。

必要條件

需求

思科建議您瞭解以下主題：

- Prime基礎架構(PI)
- 模板功能
- CLI命令

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- PI 3.2。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

設定

單一命令示例

從裝置中刪除使用者

- 在裝置中建立使用者名稱。

附註：在此示例中，使用者名稱inniti將被刪除。

```
BGL14-1.S.04-2900-1#show running-config | i username
username cisco privilege 15 password 0 cisco
username jkadmin privilege 15 secret 9 $9$XOCmcxGJyySQhk$v.mz/x5WKDKzpXrGb6k8to5Q5YFinNWfb3c5V5Xqmjo
username jkprime privilege 15 secret 9 $9$9IKexQCpUzUJK.$U2j/h4s8LpDFhwh59SJZm18Gb/cBNQT3SqFPLPCPupA
username inniti privilege 15 password 7 151B05020D3E22
BGL14-1.S.04-2900-1#
```

- 轉至Configuration > Features & Technologies > My Templates > CLI Templates

使用多個命令建立模板：

Example from User Guide

Adding Multi-line Commands

To enter multi-line commands in the CLI Content area, use the this syntax:

<MLTCMD>First Line of Multiline Command

Second Line of Multiline Command

.....

.....

Last Line of Multiline Command</MLTCMD>

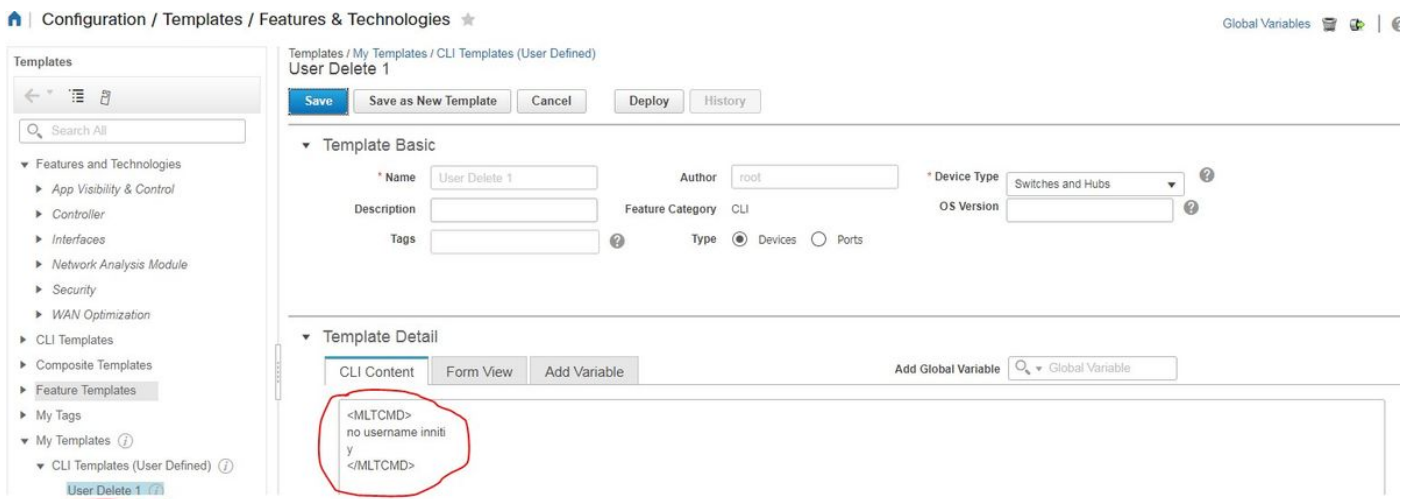
Image 2

<MLTCMD>

no username inniti

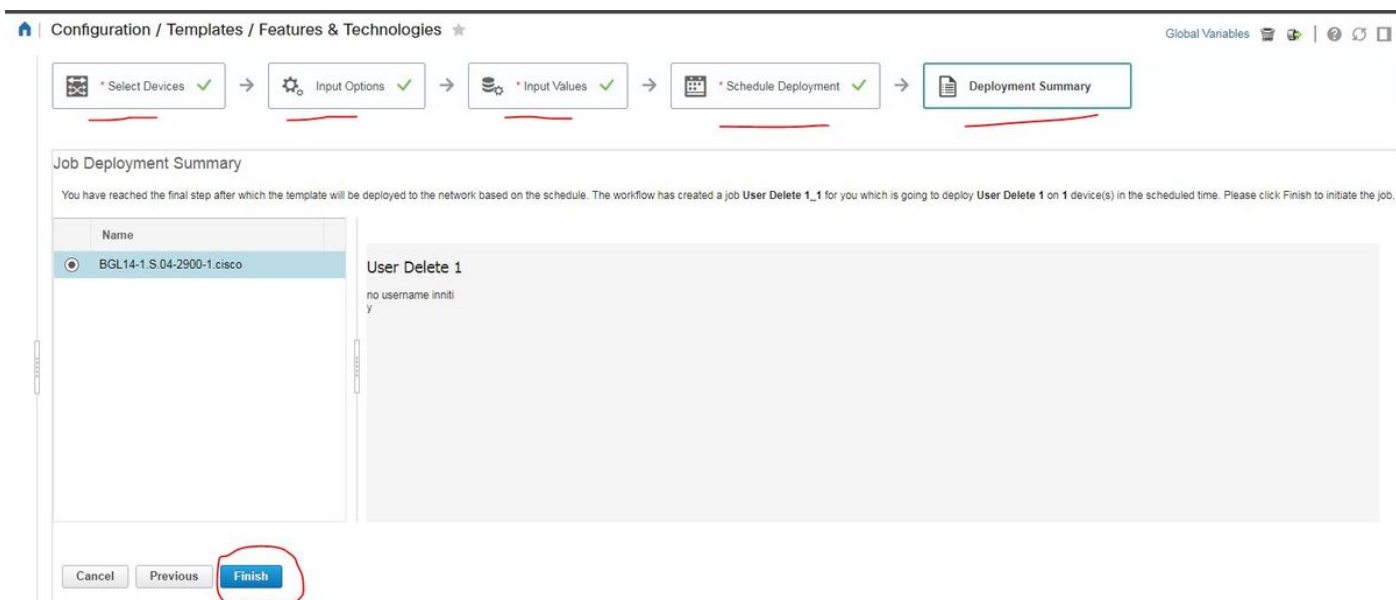
Y

</MLTCMD>

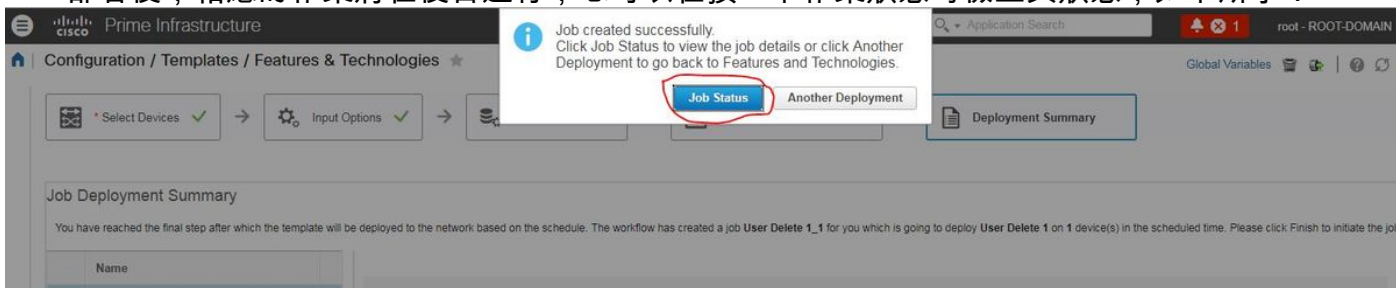


- 部署模板。

附註：選擇裝置並相應地重新檢查模板。



- 部署後，相應的作業將在後台運行，您可以在按一下作業狀態時檢查其狀態，如下所示：



驗證

- 檢查PI和裝置中的狀態：
在PI上：

Administration / Dashboards / Job Dashboard / User Delete 1_1

'Recurrence' None
'Description' N/A

Showing latest 5 Job instances [Show All](#) Total 1

Run ID	Status	Duration(hh:mm:ss)	Start Time	Completion Time
12907003	Success	00:00:01	2017-07-25 15:05	2017-07-25 15:05

Job summary Successful deployment on 1 device(s).

Job Results for User Delete 1 Total 1

Device	Status	Transcript
10.106.68.57	Success	configlet.no username innitiy response.terminal width 0config tno username innitiy

在裝置上：

使用者名稱inniti被刪除。

```
BGL14-1.S.04-2900-1#show running-config | include username
username cisco privilege 15 password 0 cisco
username jkadmin privilege 15 secret 9 $9$XOCmcxGJyySQhk$v.mz/x5WKDKzpXrGb6k8to5Q5YFinNWfb3c5V5Xqmjo
username jkprime privilege 15 secret 9 $9$9IKexQCpUzUJK.$U2j/h4s8LpDFhwh59SJZm18Gb/cBNQT3SqFPLPCPupA
BGL14-1.S.04-2900-1#
```

轉至Configuration > Features & Technologies > My Templates > CLI Templates

- 使用互動式命令建立一個模板

Example from user guide

Adding Interactive Commands

An interactive command contains the input that must be entered following the execution of a command.

To enter an interactive command in the CLI Content area, use the following syntax:

```
CLI Command<IQ>interactive question 1<R>command response 1 <IQ>interactive question 2<R>command response 2
```

where <IQ> and <R> tag are case-sensitive and must be entered as uppercase

在本例中：

```
#INTERACTIVE
```

```
no username inniti<IQ>confirm<R>y
```

```
#ENDS_INTERACTIVE
```

The screenshot shows the configuration page for a CLI template named "User Delete-3". The left sidebar shows a navigation tree with "User Delete-3" selected under "My Templates (User Defined)". The main content area is divided into "Template Basic" and "Template Detail".

Template Basic:

- Name: User Delete-3
- Author: root
- Device Type: Switches and Hubs
- Description: (empty)
- Feature Category: CLI
- OS Version: (empty)
- Tags: (empty)
- Type: Devices Ports

Template Detail:

The "CLI Content" tab is active, showing the following CLI commands:

```
#INTERACTIVE
no username initt<IQ>confirm<R>y
#ENDS_INTERACTIVE]
```

The CLI content is circled in red in the original image.

- 部署模板。

驗證

- 檢查PI和Device:

The screenshot shows the "Job Dashboard" for the "User Delete-3" template. It displays a table of job instances and a detailed view of a successful job.

Run ID	Status	Duration(hh:mm:ss)	Start Time
12907250	Success	00:00:02	2017-07-25 15:16

Job summary: Successful deployment on 1 device(s).

Job Results for User Delete-3

Device	Status	Transcript
10.106.68.57	Success	configlet:#INTERACTIVEno username initticofirmy#ENDS_INTERACTIV

The transcript shows the following output:

```
configlet:
#INTERACTIVE
no username initticofirmy
#ENDS_INTERACTIVE
response:
terminal width 0
config t
no username initticofirmy
BGL14-1.S.04-2900-1#config t
Enter configuration commands, one per line. End with CNTL/Z.
BGL14-1.S.04-2900-1(config)#no username initticofirmy
BGL14-1.S.04-2900-1(config)#]
```

附註：對於互動式命令，可以觀察到，在某些示例中，「互動式問題」在完全複製後不能正常運行。在這種情況下，只需鍵入最後一個單詞即可。例如，如果保留完整的句子，它將失敗。**#INTERACTIVEIQ>**內沒有使用者名稱。此操作將刪除所有同名使用者名稱相關的配置。是否要繼續？[confirm]<R>Y #ENDS_INTERACTIVE。

The screenshot shows the configuration page for a CLI template named "User Delete". The left sidebar shows "User Delete" selected under "My Templates (User Defined)".

Template Basic:

- Name: User Delete
- Author: root
- Device Type: Switches and Hubs
- Description: Delete User
- Feature Category: CLI
- OS Version: (empty)
- Tags: (empty)
- Type: Devices Ports

Template Detail:

The "CLI Content" tab is active, showing the following CLI commands:

```
#INTERACTIVE
no username initticofirmy
This operation will remove all username related configurations with same name.Do you want to continue? [confirm]<R>Y
#ENDS_INTERACTIVE
```

'Recurrence' None
'Description' N/A

Showing latest 5 Job instances [Show All](#) Total 1

Run ID	Status	Duration(hh:mm:ss)	Start Time	Completion Time
12907429	✘ Failure	00:04:56	2017-07-25 15:22	2017-07-25 15:27

Job summary Failed deployment on 1 device(s).

Job Results for User Delete

Device	Status	Transcript
10.106.68.57	✘ Failed	Error : Connection timed out while executing the command Current output : This operation will remove all username related configurations with same name.Do you want to continue? [confirm] Current expects : (BGL14-1.S.[0..30] BGL14-1.S.04-2900-1 [*])+#s*z BGL14-1.S.04-2900-1#s*z This operation will remove all username related configurations with same name.Do you want to continue? [confirm]

Total 1

多個命令示例

交換器上的加密金鑰產生

- 命令在運行時在裝置上的顯示方式：

```
BGL14-1.S.04-2900-1(config)#crypto key generate rsa
% You already have RSA keys defined named BGL14-1.S.04-2900-1.cisco.
% Do you really want to replace them? [yes/no]: yes
Choose the size of the key modulus in the range of 360 to 4096 for your
General Purpose Keys. Choosing a key modulus greater than 512 may take
a few minutes.
How many bits in the modulus [512]: 512
% Generating 512 bit RSA keys, keys will be non-exportable...
[OK] (elapsed time was 1 seconds)
BGL14-1.S.04-2900-1(config)#crypto key generate rsa
% You already have RSA keys defined named BGL14-1.S.04-2900-1.cisco.
% Do you really want to replace them? [yes/no]: yes
Choose the size of the key modulus in the range of 360 to 4096 for your
General Purpose Keys. Choosing a key modulus greater than 512 may take
a few minutes.
How many bits in the modulus [512]: 2048
```

- 使用多個命令：

```
<MLTCMD>
crypto key generate rsa
yes
2048
</MLTCMD>
```

Templates / My Templates (CLI Templates (User Defined))
crypto

Save Save as New Template Cancel Deploy History

Template Basic

Name: crypto Author: user Device Type: Switches and Hubs OS Version: 15.2(4)M3
 Description: Feature Category: CLI Type: Device Port

Template Detail

CLI Content Form View Add Variable Add Global Variables Global Variables

```

->BGL14-1#
crypto key generate rsa
yes
2048
->BGL14-1#
  
```

- 部署模板。

驗證

- PI和裝置上的最終狀態：

Administration / Dashboards / Job Dashboard / crypto_1

Job summary: Successful deployment on 1 device(s).

Run ID	Status	Duration(hh:mm:ss)	Start Time
12912919	Success	00:00:16	2017-07-25 15:42

Job Results for crypto

Device	Status	Transcript
10.106.68.57	Success	configlet:crypto key generate rsayes2048 response:terminal width

```

configlet:
crypto key generate rsa
yes
2048
response:
terminal width 0
config t
crypto key generate rsa
yes
2048
BGL14-1 S.04-2900-1#config t
Enter configuration commands, one per line. End with CNTL/Z.
BGL14-1 S.04-2900-1(config)#crypto key generate rsa
% You already have RSA keys defined named BGL14-1.S.04-2900-1.cisco.
% Do you really want to replace them? [yes/no]: yes
Choose the size of the key modulus in the range of 360 to 4096 for your
General Purpose Keys. Choosing a key modulus greater than 512 may take
a few minutes.
How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...
[OK] (elapsed time was 15 seconds)
BGL14-1 S.04-2900-1(config)#>
  
```

```

BGL14-1.S.04-2900-1#show crypto key mypub rsa
% Key pair was generated at: 17:41:17 UTC May 2 2001
Key name: TP-self-signed-4280444032
Key type: RSA KEYS
Storage Device: private-config
Usage: General Purpose Key
Key is not exportable. Redundancy enabled.
  
```

- 互動式命令的使用：

```
#INTERACTIVE
```

```
crypto key generate rsa<IQ>yes/no<R>yes<IQ>512<R>2048
```

```
#ENDS_INTERACTIVE
```

[Save](#) [Save as New Template](#) [Cancel](#) [Deploy](#) [History](#)

▼ Template Basic

* Name Author * Device Type Description Feature Category CLI OS Version Tags Devices Ports

▼ Template Detail

[CLI Content](#) [Form View](#) [Add Variable](#)

Add Global Variable

```
#INTERACTIVE  
crypto key generate rsa<IQ>yes/no<R>yes<IQ>512<R>2048  
#ENDS_INTERACTIVE
```

- 部署模板。

驗證

- PI中的最終狀態：

Administration / Dashboards / Job Dashboard / crypto1_1

Showing latest 5 Job instances [Show All](#)

Run ID	Status	Duration(hh:mm:ss)	Start Time
12913151	Success	00:00:21	2017-07-25

Job summary Successful deployment on 1 device(s).

Job Results for crypto1

Device	Status	Transcript
10.106.68.57	Success	configlet#INTERACTIVEcrypto key generate

```
configlet:  
#INTERACTIVE  
crypto key generate rsayes/noyes5122048  
#ENDS_INTERACTIVE  
response:  
terminal width 0  
config t  
crypto key generate rsa  
BGL14-1.S.04-2900-1#config t  
Enter configuration commands, one per line. End with CNTL/Z.  
BGL14-1.S.04-2900-1(config)#crypto key generate rsacrypto key generate rsa  
% Generating 2048 bit RSA keys. Keys will be non-exportable...  
[OK] (elapsed time was 19 seconds)  
BGL14-1.S.04-2900-1(config)#]]>
```

疑難排解

目前尚無適用於此組態的具體疑難排解資訊。