

PI 3.2。用户定义的CLI模板的创建用单个线路和多条线路命令

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简介

本文描述如何创建用户定义的CLI模板用单个线路和多条线路命令。

先决条件

要求

Cisco 建议您了解以下主题：

- 头等基础设施(PI)
- 模板功能
- CLI命令

使用的组件

本文档中的信息基于以下软件和硬件版本：

- PI 3.2。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

配置

单个命令示例

用户的删除从设备的

- 创建在设备的一个用户名。

注意：在本例中，用户名inniti将删除。

```
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#
```

- 去Configuration>功能&技术>我的模板> CLI模板

创建有多命令的一个模板：

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>

Configuration / Templates / Features & Technologies

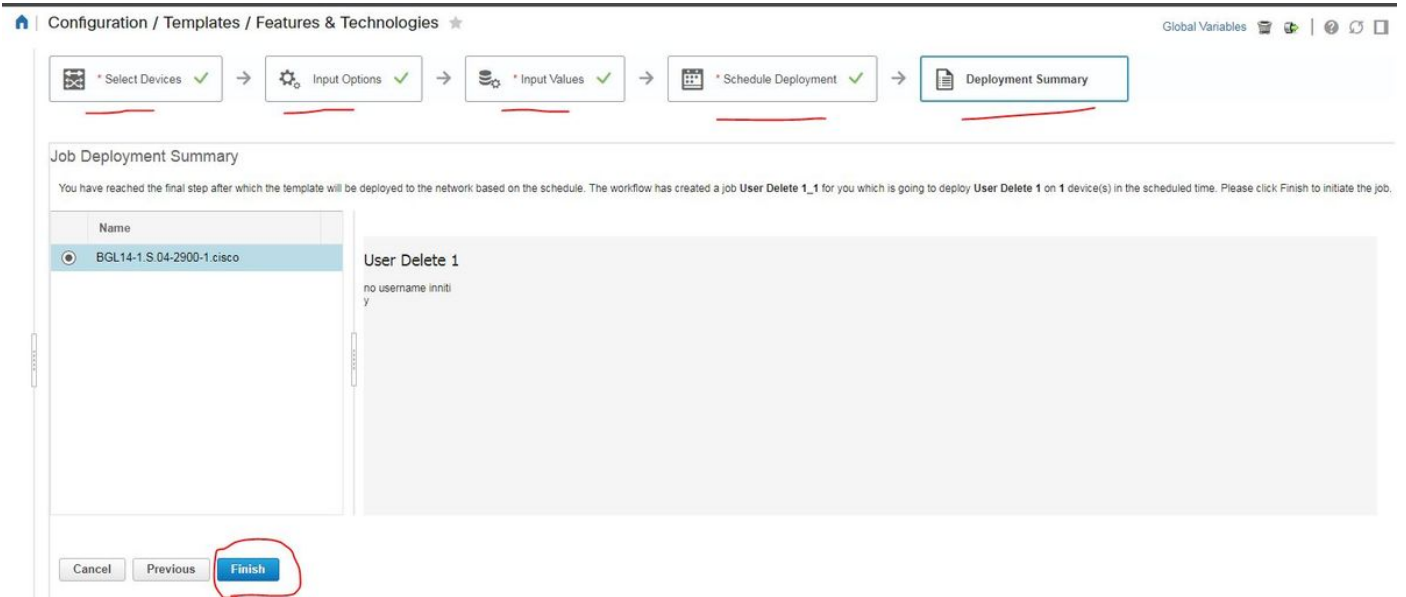
Global Variables

The screenshot shows the configuration page for a CLI template named "User Delete 1". The page is divided into several sections:

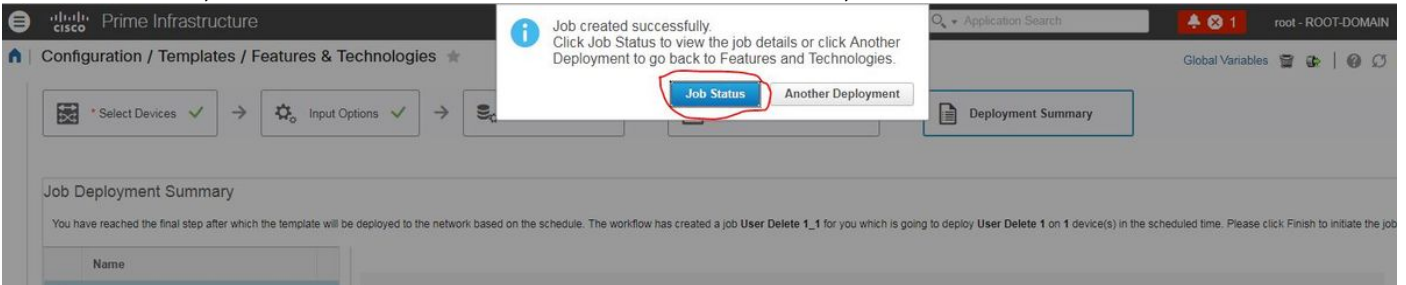
- Template Basic:** Includes fields for Name (User Delete 1), Author (root), Device Type (Switches and Hubs), Description, Feature Category (CLI), OS Version, and Type (Devices selected).
- Template Detail:** Contains a tab for "CLI Content" which is active. The content area shows the command sequence: <MLTCMD> no username inniti y </MLTCMD>. This content is circled in red.

- 部署模板。

注意：选择设备并且相应地复校模板。



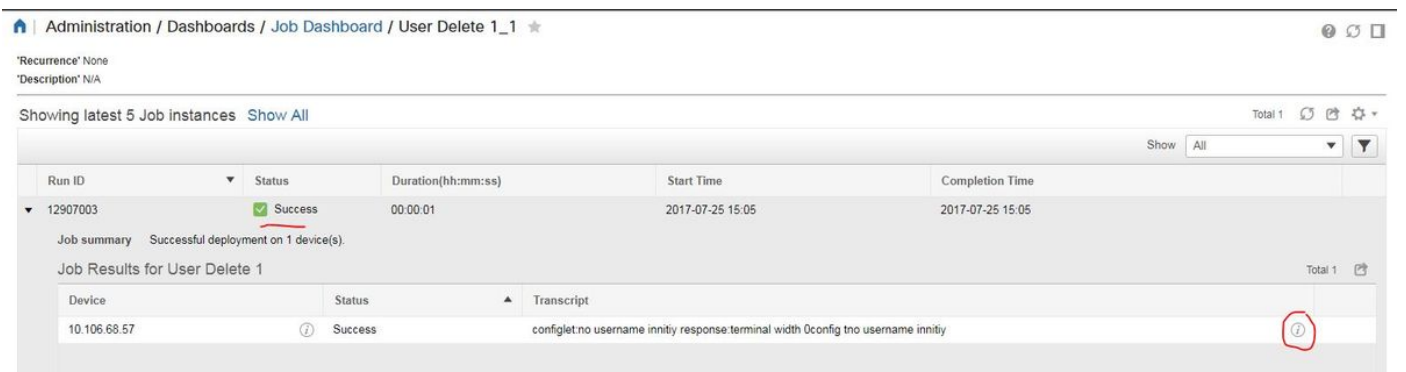
- 一旦部署，对应的工作在背景和您将运行能检查其状态，当您点击工作状态如显示：



验证

- 检查状态在PI以及在设备：

在PI：



在设备上：

用户名inniti删除。

```
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#
```

去Configuration>功能&技术>我的模板> CLI模板

- 创建一个模板用交互命令

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

在本示例中：

```
#INTERACTIVE
```

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

```
#ENDS_INTERACTIVE
```

Configuration / Templates / Features & Technologies

Global Variables

The screenshot shows the configuration page for a CLI template named "User Delete-3". The "Template Basic" section includes fields for Name (User Delete-3), Author (root), Device Type (Switches and Hubs), Description, Feature Category (CLI), Tags, and Type (Devices selected). The "Template Detail" section has a "CLI Content" tab active, showing the following content: `#INTERACTIVE`, `no username inniti<IQ>confirm<R>y`, and `#ENDS_INTERACTIVE`. The content is circled in red.

- 部署模板。

验证

- 检查在PI以及设备的状态：

Administration / Dashboards / Job Dashboard / User Delete-3_1

irrence' None
ription' N/A

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

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	conf t #INTERACTIVE no username innitconfirmy#ENDS_INTERACTI response: terminal width 0 conf t no username innit BGL14-1.S.04-2900-1#conf t Enter configuration commands, one per line. End with CNTL/Z. BGL14-1.S.04-2900-1(config)#no username innitno username innit BGL14-1.S.04-2900-1(config)#>

注意：对于交互命令，注意到在少量示例的交互问题，当复制完全不适当地运行。在这种情况下，您需要键入最后词。例如，当您保持完整句子它失败。**#INTERACTIVE**没有用户名 inniti <IQ>This操作将删除与同样名称的所有用户名相关的配置。是否要继续？[confirm] <R>Y #ENDS_INTERACTIVE。

Configuration / Templates / Features & Technologies

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

Save Save as New Template Cancel Deploy History

Template Basic

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

Template Detail

CLI Content Form View Add Variable Add Global Variable

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

Administration / Dashboards / Job Dashboard / User Delete_2

'Recurrence' None
'Description' N/A

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

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]

多Example命令

在交换机的加密密钥生成

- 命令如何在设备查找，当运行了：

```
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
```

- 使用多命令：

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



- 部署模板。

验证

- 最终状态在PI和在设备：

Administration / Dashboards / Job Dashboard / crypto_1

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

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

Job summary Successful deployment on 1 device(s).

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.

```

- 使用交互命令：

```
#INTERACTIVE
```

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

```
#ENDS_INTERACTIVE
```

Templates / My Templates / CLI Templates (User Defined)

crypto1

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

▼ Template Basic

* Name: Author: * Device Type: ?

Description: Feature Category: CLI OS Version: ?

Tags: ? Type: 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。

验证

- 在PI的最终状态：

Administration / Dashboards / Job Dashboard / crypto1_1

'Recurrence' None
'Description' N/A

Showing latest 5 Job instances Show All

Run ID	Status	Duration(hh:mm:ss)	Start Time
12913151	Success	00:00:21	2017-07-25 1

Job summary Successful deployment on 1 device(s).

Job Results for crypto1

Device	Status	Transcript
10.106.68.57	Success	configlet:#INTERACTIVEcrypto key gen

```
configlet:
#INTERACTIVE
crypto key generate rsayes/noyes5122048
#ENDS_INTERACTIVE
response:
terminal width 0
config 1
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#)]]>
```

故障排除

目前没有针对此配置故障排除信息。