PI 3.2.使用单行和多行命令创建用户定义的CLI模板

目录

简介

本文档介绍如何使用单行和多行命令创建用户定义的CLI模板。

先决条件

要求

Cisco 建议您了解以下主题：

- Prime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

单命令示例

从设备删除用户

- 在设备中创建用户名。

  注意：在本例中，用户名innit将被删除。

```
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#
```

- 转至Configuration > Features & Technologies > My Templates > CLI Templates
使用多命令创建模板：

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

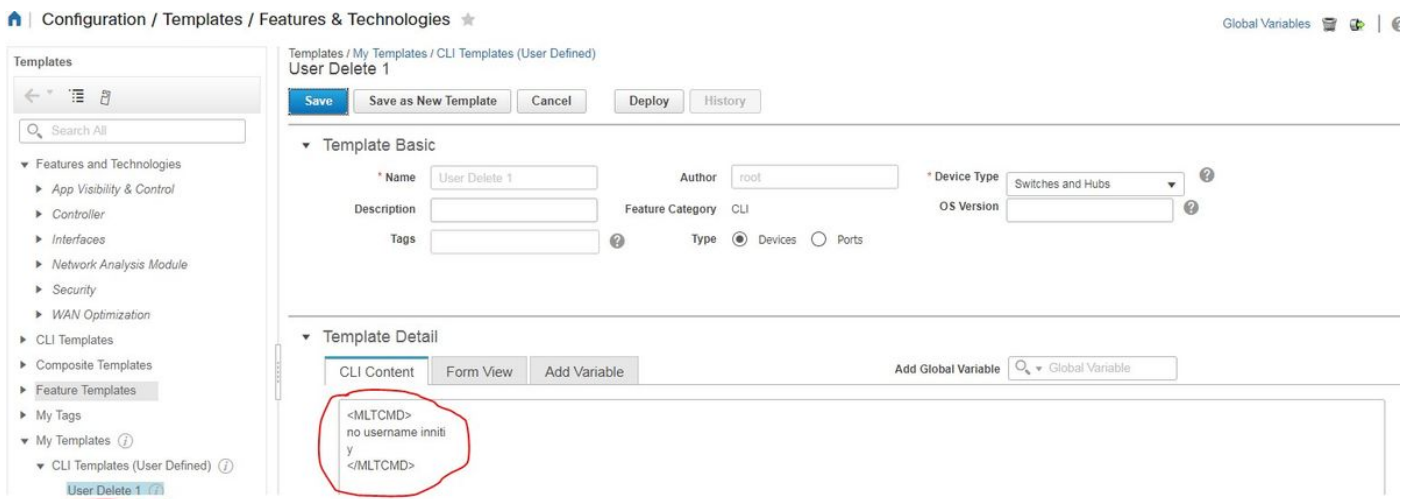......

......

Last Line of Multiline Command</MLTCMD>
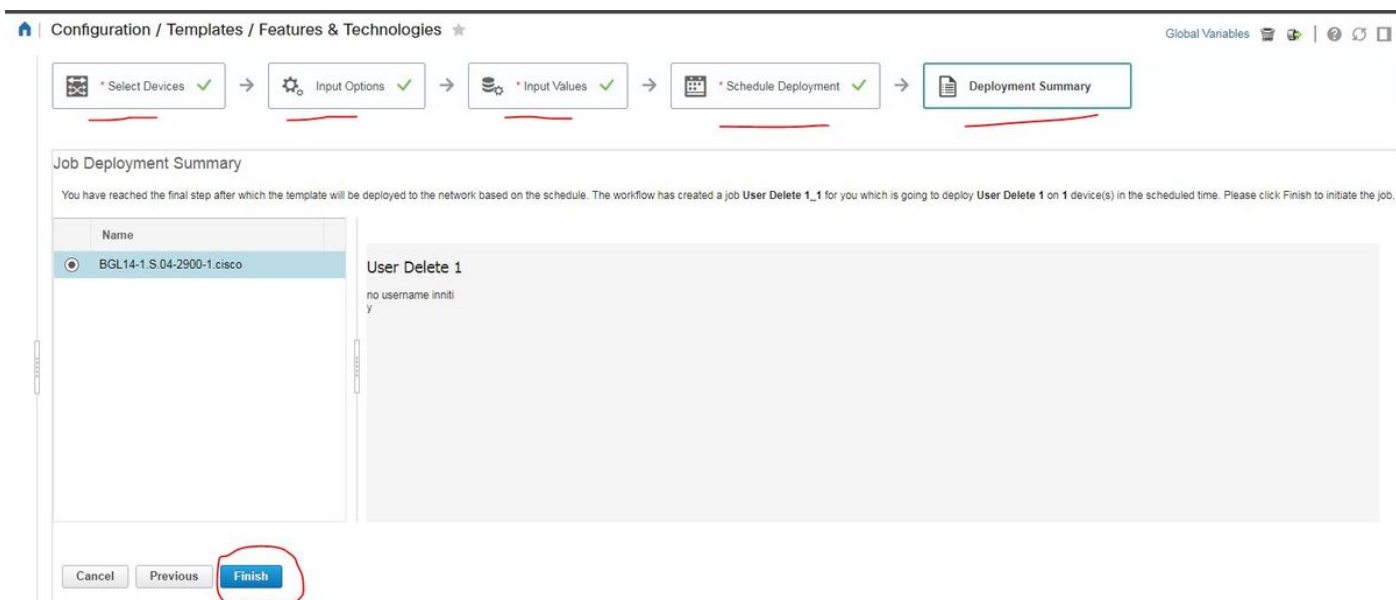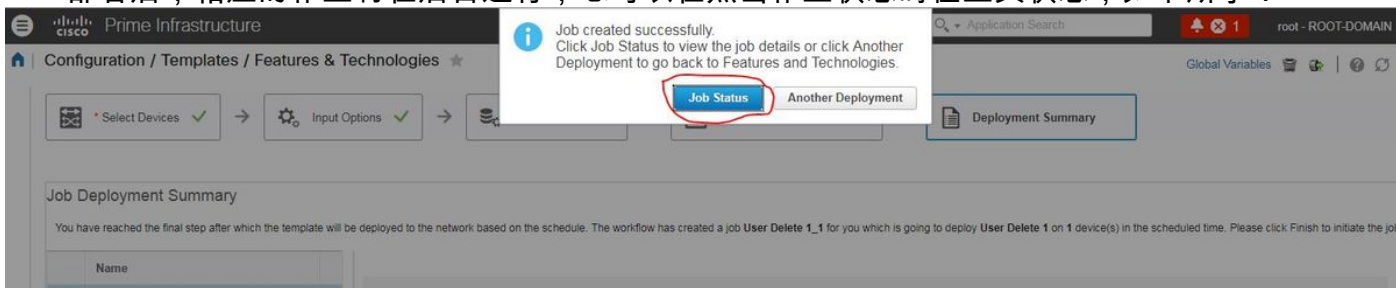

Image 2

<MLTCMD>

no username inniti

y

</MLTCMD>

Templates / My Templates / CLI Templates (User Defined)
User Delete 1

Templates

[Save] [Save as New Template] [Cancel]   [Deploy] [History]

▼ Template Basic

* Name	User Delete 1	Author	root	* Device Type Switches and Hubs ▼ ❓
Description		Feature Category	CLI	OS Version ❓
Tags	❓	Type	⦿ Devices ◯ Ports	

▼ Template Detail

[CLI Content] [Form View] [Add Variable]   Add Global Variable 🔍 ▾ Global Variable

```
<MLTCMD>
no username inniti
y
</MLTCMD>
```

- 部署模板。

  注意：选择设备并相应地重新检查模板。

[🖾 * Select Devices ✓] → [⚙ Input Options ✓] → [🗄 * Input Values ✓] → [📅 * Schedule Deployment ✓] → [📄 Deployment Summary]

Job Deployment Summary

You have reached the final step after which the template will be deployed to the network based on the schedule. The workflow has created a job **User Delete 1_1** for you which is going to deploy **User Delete 1** on **1** device(s) in the scheduled time. Please click Finish to initiate the job.

Name
⦿ BGL14-1.S.04-2900-1.cisco

User Delete 1

no username inniti
y

[Cancel] [Previous] [Finish]

- 部署后，相应的作业将在后台运行，您可以在点击作业状态时检查其状态，如下所示：

ⓘ Job created successfully.
Click Job Status to view the job details or click Another
Deployment to go back to Features and Technologies.

[Job Status] [Another Deployment]

↑ | Configuration / Templates / Features & Technologies ★   Global Variables 🗑 🕪 | ❓ 🔄

[🖾 * Select Devices ✓] → [⚙ Input Options ✓] → [🗄] [📄 Deployment Summary]

Job Deployment Summary

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Name

验证

- 检查PI和设备中的状态：

在PI上：

在设备上：

用户名inniti被删除。

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

- 使用交互命令创建一个模板

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

在本示例中：

#INTERACTIVE

no username inniti<IQ>confirm<R>y

#ENDS_INTERACTIVE

- 部署模板。

验证

- 检查PI和设备中的状态：

注意：对于Interactive命令，在很多示例中，完全复制时"Interactive Question"未正确运行。在这种情况下，只需键入最后一个单词。例如，当您保留完整句子时，它将失败。
#INTERACTIVE no username inniti <IQ>此操作将删除所有与用户名相关且名称相同的配置。是否要继续？[confirm]<R>Y #ENDS_INTERACTIVE。

多个命令示例

交换机上的加密密钥生成

- 运行时命令在设备上的显示方式：

```
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)
```


- 使用多命令：

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

- 部署模板。

验证

- PI和设备上的最终状态：


```
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	crypto1		Author	root		* Device Type	Switches and Hubs ▼	?
Description			Feature Category	CLI		OS Version		?
Tags		?	Type	⦿ Devices ○ Ports			

▼ Template Detail

| CLI Content | Form View | Add Variable | Add Global Variable [🔍 ▼ Global Variable]

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

- 部署模板。

验证

- PI中的最终状态：

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 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)#]]>

Cisco Prime Infrastructure

🏠 | 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 |

故障排除

目前没有针对此配置的故障排除信息。