# PI 3.2. Creation of User Defined CLI Template with Single Line and Multiple Line Command

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## Introduction

This document describes how to create user defined CLI templates with single line and multiple line commands.

# **Prerequisites**

# Requirements

Cisco recommends that you have knowledge of these topics:

- Prime Infrastructure (PI)
- Template Features
- CLI Commands

# **Components Used**

The information in this document is based on these software and hardware versions:

• PI 3.2.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

# Configure

# **Single Command Example**

#### **Deletion of User from the Device**

• To create a user name in the device.

Note: In this example, username inniti will be deleted.

```
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#
```

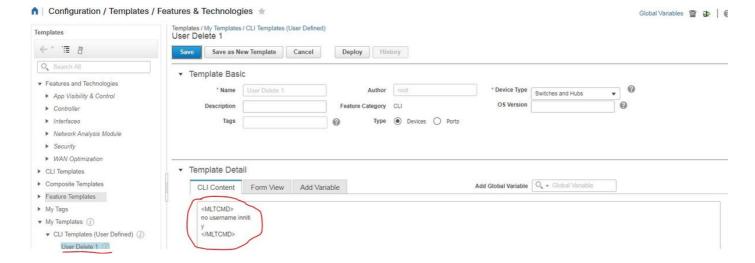
• Go to Configuration > Features & Technologies > My Templates > CLI Templates Create a template with multi-command:

```
Example from User Guide

Adding Multi-line Commands

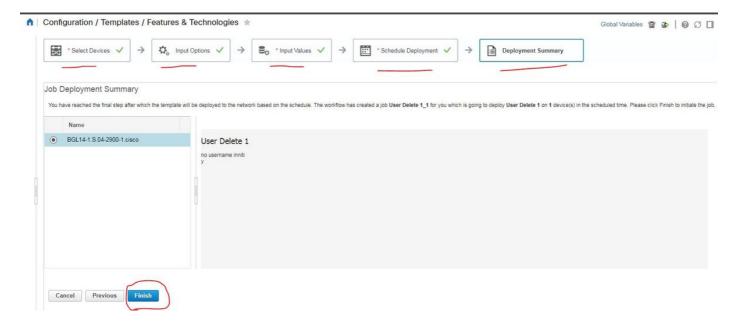
To enter multi-line commands in the CLI Content area, use the this syntax:

<pr
```



Deploy the template.

Note: Select the device and re-check the template accordingly.



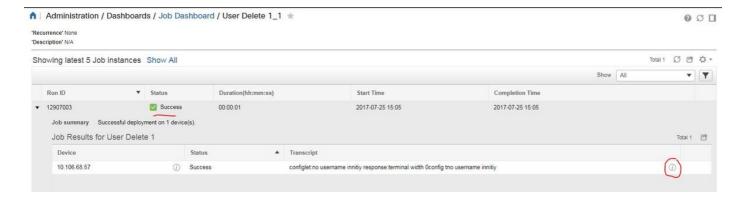
 Once you deploy, a Job that corresponds will run in the Background and you can check its status when you click on Job Status as shown:



#### Verify

• Check the Status in PI as well as in Device:

On PI:



#### On Device:

Username inniti is deleted.

```
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#
```

#### Go to Configuration > Features & Technologies > My Templates > CLI Templates

#### Create one Template with Interactive Commands

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:

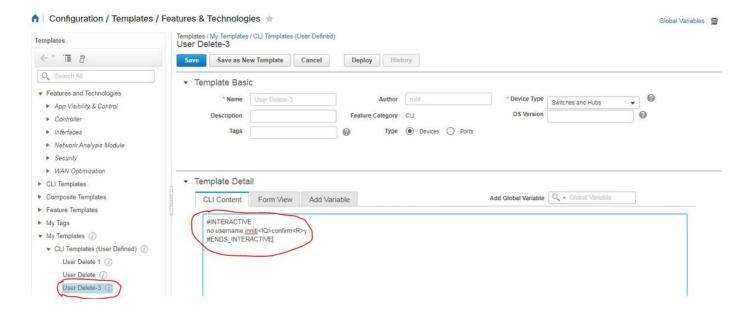
CLI Command<br/><IQ>interactive question 1<R>command response 1 <IQ>interactive question 2<R>command response 2

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

#INTERACTIVE

no username inniti<IQ>confirm<R>y

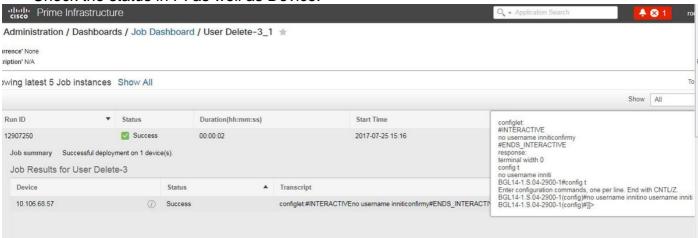
#ENDS\_INTERACTIVE



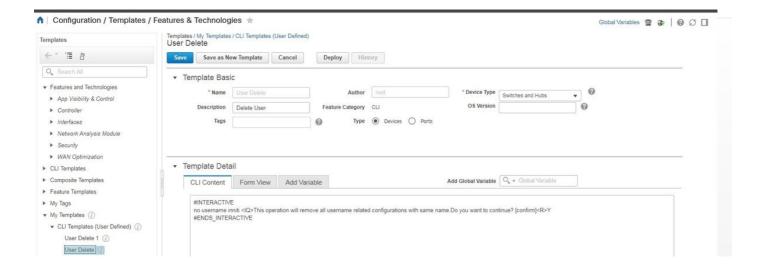
• Deploy the template.

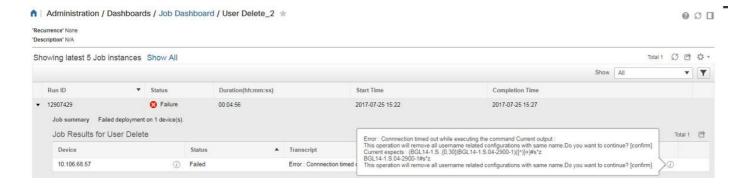
## Verify

· Check the status in PI as well as Device:



Note: For Interactive commands, it is observed that in few examples 'Interactive Question' when copied completely does not run properly. In such a case, you just need to type the last word. For example, when you keep complete sentence it will fail. #INTERACTIVE no username inniti <IQ>This operation will remove all username related configurations with same name. Do you want to continue? [confirm]<R>Y #ENDS\_INTERACTIVE.





## **Multiple Commands Example**

### **Crypto Key Generation on Switch**

```
• How the command looks on device when ran:
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.
```

#### • Use of Multi-Commands:

How many bits in the modulus [512]: 2048

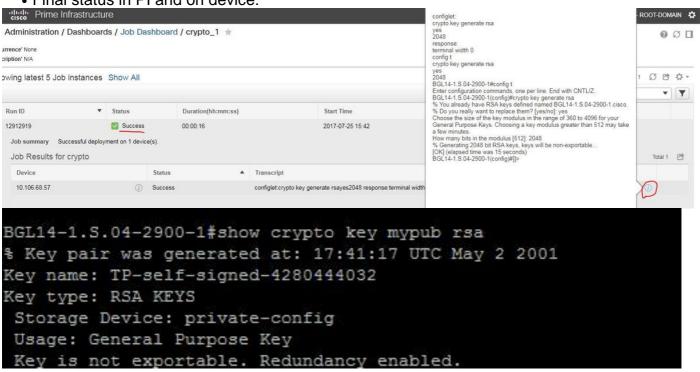
```
<MLTCMD>
crypto key generate rsa
yes
2048
</MLTCMD>
```



Deploy the template.

#### Verify

Final status in PI and on device:

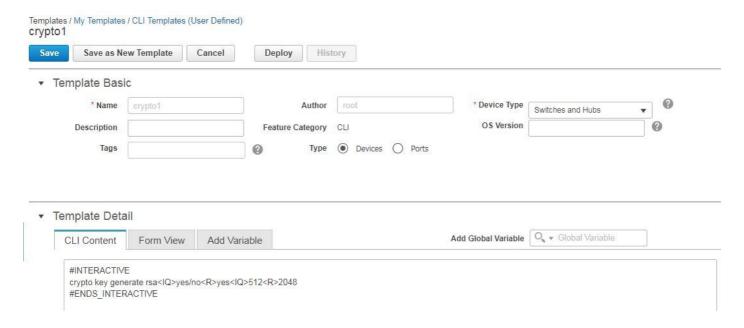


#### • Use of Interactive Command:

#INTERACTIVE

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

#ENDS\_INTERACTIVE



Deploy template.

## Verify

• Final status in PI:



# **Troubleshoot**

There is currently no specific troubleshooting information available for this configuration.