

PI 3.2. Creación de una Plantilla CLI Definida por el Usuario con un Comando de Línea Única y de Línea Múltiple

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Introducción

Este documento describe cómo crear plantillas de CLI definidas por el usuario con comandos de línea única y de línea múltiple.

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Prime Infrastructure (PI)
- Características de la plantilla
- Comandos CLI

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- 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.

Configurar

Ejemplo de Comando Único

Eliminación del usuario del dispositivo

- Para crear un nombre de usuario en el dispositivo.

Nota: En este ejemplo, se eliminará el nombre de usuario inniti.

```
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/h4s8LpDFnwh59SjZm18Gb/cBNQI3SqFPLPCPupA
username inniti privilege 15 password 7 151B05020D3E22
BGL14-1.S.04-2900-1#
```

- Vaya a **Configuration > Features & Technologies > My Templates > CLI Templates**

Cree una plantilla con varios comandos:

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>

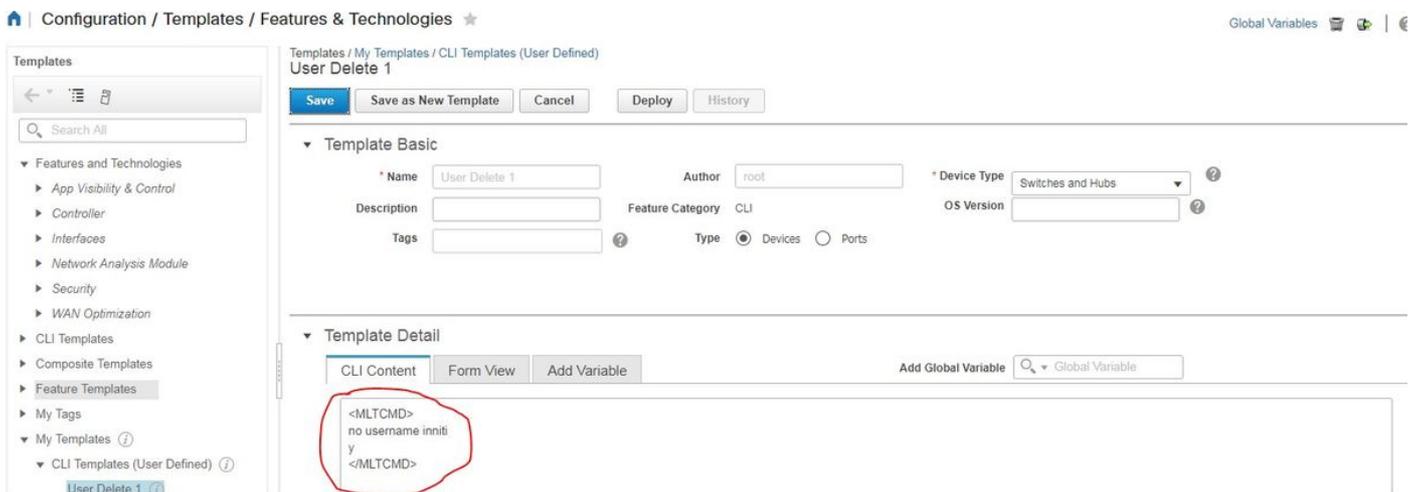
Image 2

<MLTCMD>

no username inniti

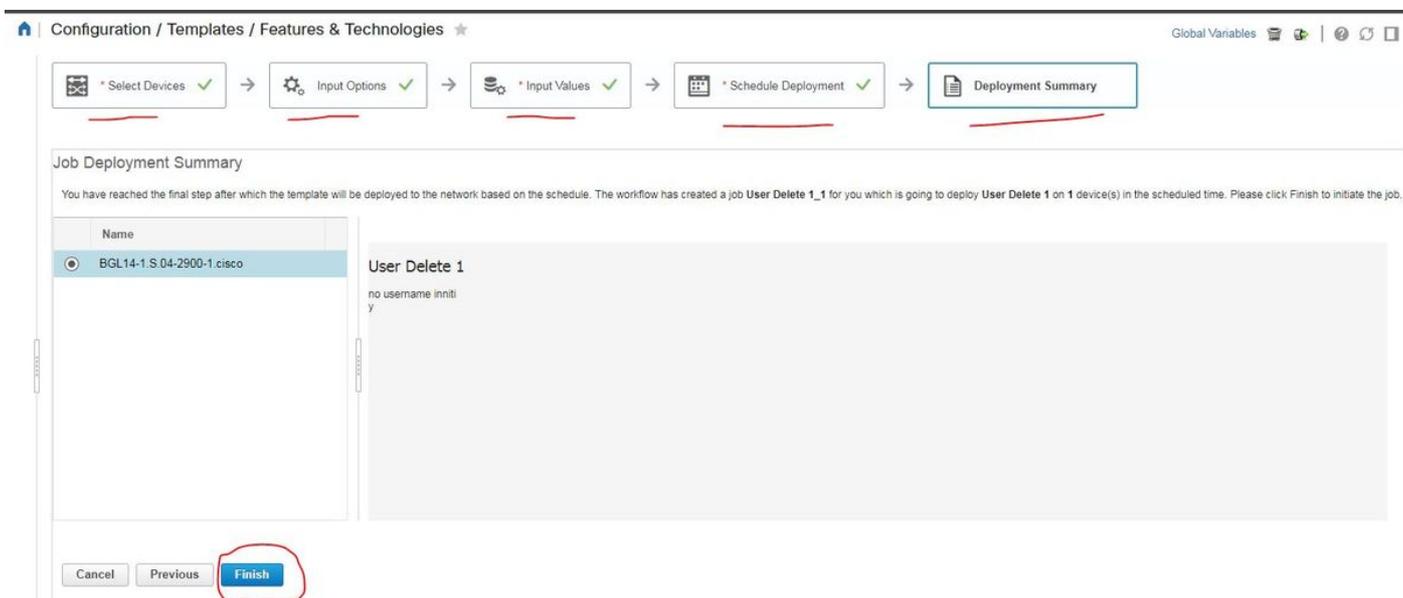
y

</MLTCMD>

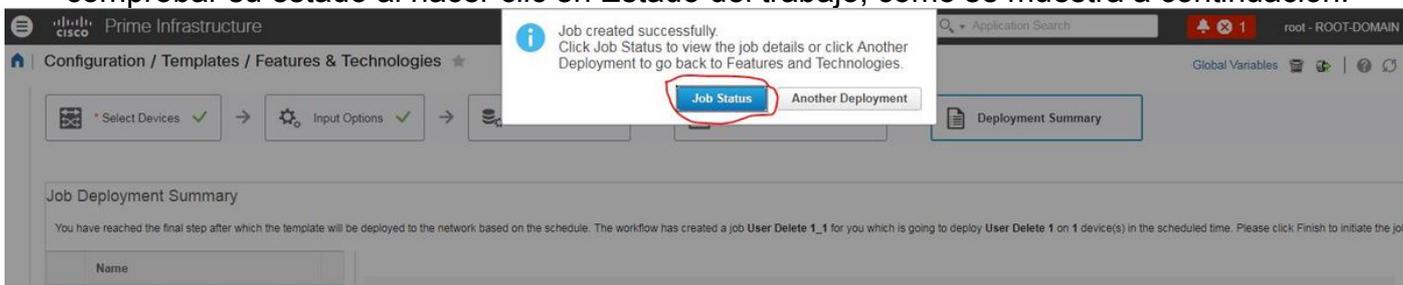


- Implemente la plantilla.

Nota: Seleccione el dispositivo y vuelva a comprobar la plantilla en consecuencia.



- Una vez implementada, se ejecutará un trabajo correspondiente en segundo plano y podrá comprobar su estado al hacer clic en Estado del trabajo, como se muestra a continuación:



Verificación

- Verifique el estado en PI así como en Device:

En PI:

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 innitly response.terminal width 0config tno username innitly

En el dispositivo:

Se elimina el identificador de nombre de usuario.

```
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#
```

Vaya a Configuration > Features & Technologies > My Templates > CLI Templates

- Crear una plantilla con comandos interactivos

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

En el ejemplo:

```
#INTERACTIVE
```

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

```
#ENDS_INTERACTIVE
```

- Implemente la plantilla.

Verificación

- Compruebe el estado en PI y en Device:

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

Device	Status	Transcript
10.106.68.57	Success	configlet:#INTERACTIVEno username inittconfirm#ENDS_INTERACTIVE

Nota: En el caso de los comandos interactivos, se observa que, en algunos ejemplos, la "pregunta interactiva" cuando se copia por completo no se ejecuta correctamente. En tal caso, sólo tiene que escribir la última palabra. Por ejemplo, cuando se mantiene una frase completa, se producirá un error. **#INTERACTIVE no username initt <IQ>Esta operación eliminará todas las configuraciones relacionadas con el nombre de usuario con el mismo nombre. ¿Desea continuar? [confirmar]<R>Y #ENDS_INTERACTIVE.**

Configuration / Templates / Features & Technologies

Global Variables

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 innt: <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)([*])>##\$*z BGL14-1.S.04-2900-1##\$*z This operation will remove all username related configurations with same name.Do you want to continue? [confirm]

Ejemplo de Comandos Múltiples

Generación de clave criptográfica en switch

- Cómo se ve el comando en el dispositivo cuando se ejecuta:

```
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...
```

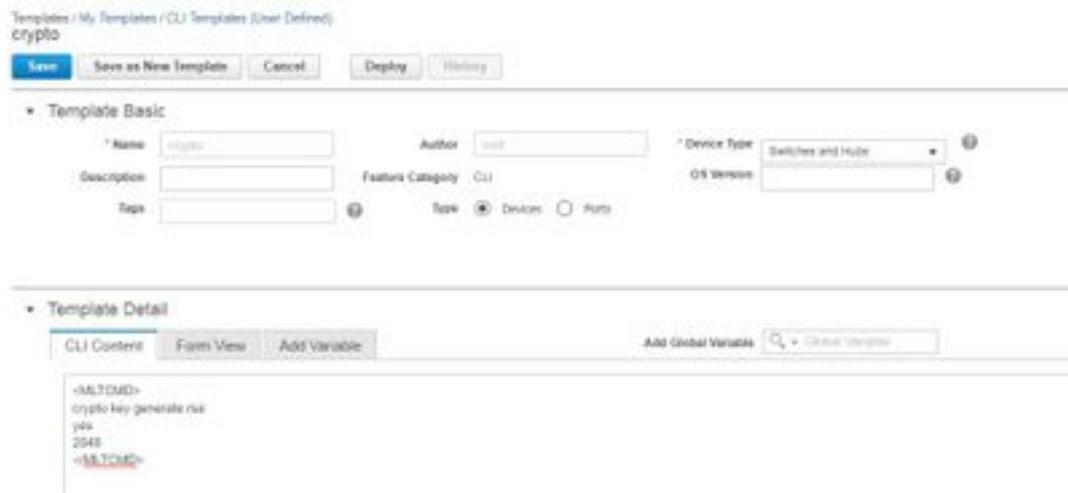
```
[OK] (elapsed time was 1 seconds)
```

```
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
```

- Uso de varios comandos:

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



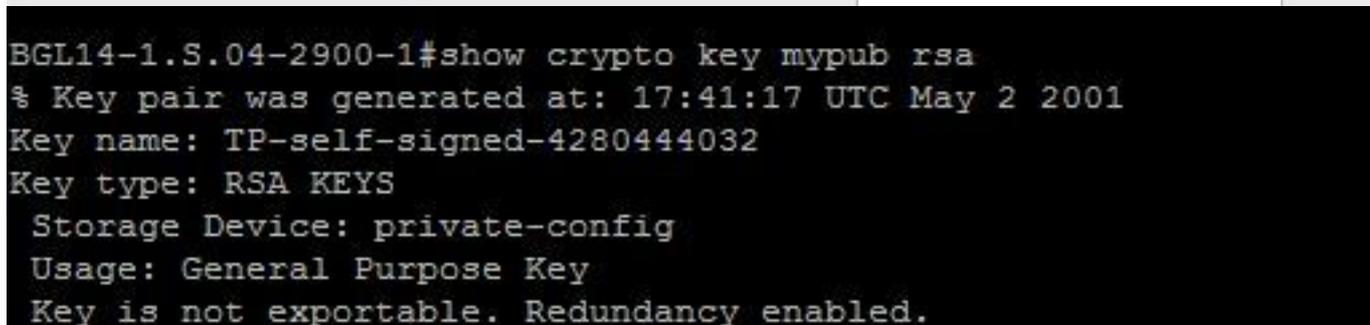
- Implemente la plantilla.

Verificación

- Estado final en PI y en el dispositivo:

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)#]
```



- Uso del comando interactivo:

```
#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
```

- Implementar plantilla.

Verificación

- Estado final en PI:

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 10:10:57

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)#>
```

Troubleshoot

Actualmente, no hay información específica de troubleshooting disponible para esta configuración.