

# PI 3.2. Criação de molde definido pelo utilizador CLI com comando da linha única e da múltipla linha

## Índice

[Introdução](#)

[Pré-requisitos](#)

[Requisitos](#)

[Componentes Utilizados](#)

[Configurar](#)

[Exemplo do comando único](#)

[Supressão do usuário do dispositivo](#)

[Comandos example múltiplos](#)

[Geração de chave de criptografia no interruptor](#)

[Troubleshooting](#)

## Introdução

Este documento descreve como criar moldes definidos pelo utilizador CLI com os comandos da linha única e da múltipla linha.

## Pré-requisitos

### Requisitos

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Infraestrutura principal (PI)
- Características do molde
- Comandos CLI

### [Componentes Utilizados](#)

As informações neste documento são baseadas nestas versões de software e hardware:

- PI 3.2.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

# Configurar

## Exemplo do comando único

### Supressão do usuário do dispositivo

- Para criar um nome de usuário no dispositivo.

Nota: Neste exemplo, o inniti username será suprimido.

```
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/h4s8LpDFwh59SjZm18Gb/cBNQI3SqFPLPCPupA
username inniti privilege 15 password 7 151B05020D3E22
BGL14-1.S.04-2900-1#
```

- Vão à configuração > às características & às Tecnologias > meus moldes > os moldes CLI  
Crie um molde com o multi-comando:

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>

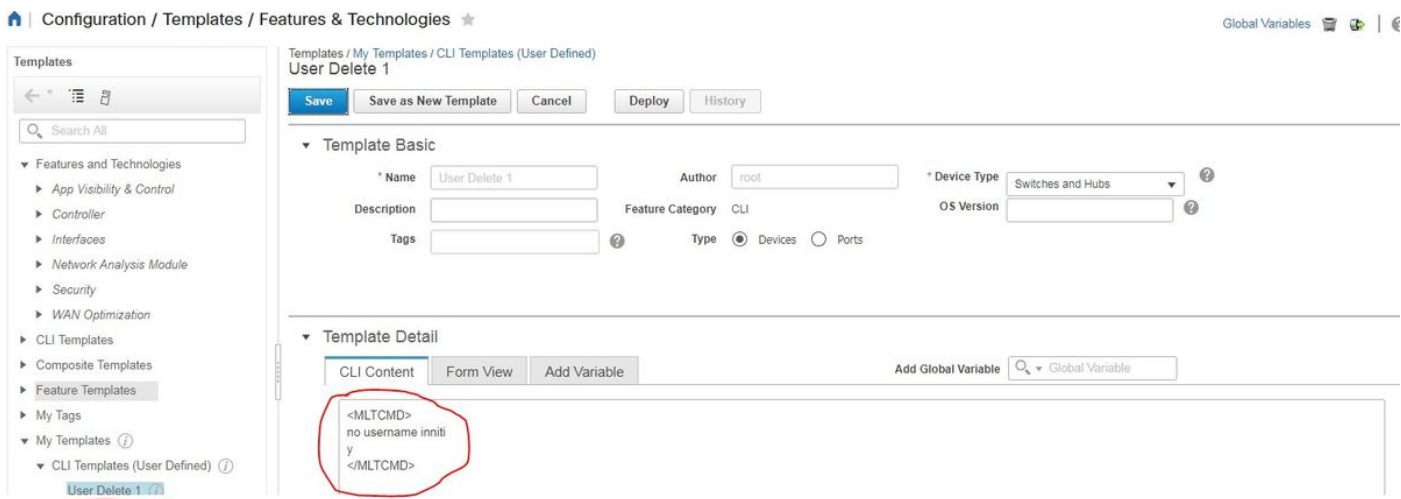
Image 2

<MLTCMD>

no username inniti

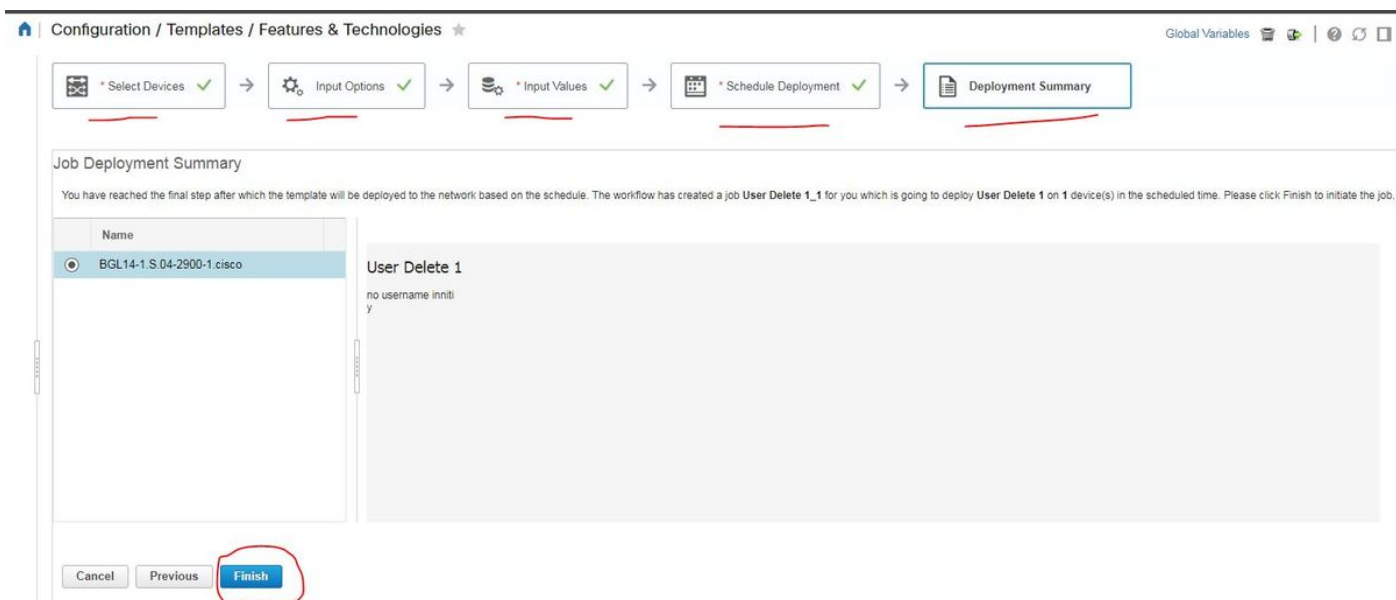
y

</MLTCMD>

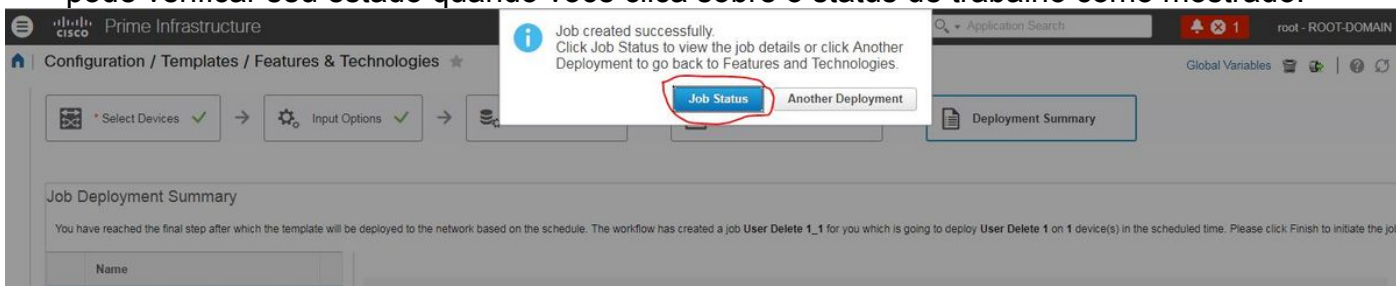


- Distribua o molde.

Nota: Selecione o dispositivo e verifique novamente o molde em conformidade.



- Uma vez que você distribui, um trabalho que corresponda será executado no fundo e no você pode verificar seu estado quando você clica sobre o status de trabalho como mostrado:



## Verificar

- Verifique o estado no PI assim como no dispositivo:

No 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 innitiy response.terminal width 0config tno username innitiy

No dispositivo:

O inniti username é suprimido.

```
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#
```

Vão à configuração > às características & às Tecnologias > meus moldes > os moldes CLI

- Crie um molde com os comandos interativos

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

No exemplo:

```
#INTERACTIVE
```

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

```
#ENDS_INTERACTIVE
```

The screenshot shows the configuration interface for a CLI template. On the left is a navigation tree with 'User Delete-3' selected under 'CLI Templates (User Defined)'. The main area is divided into 'Template Basic' and 'Template Detail' sections. In the 'Template Basic' section, the 'Name' is 'User Delete-3', 'Author' is 'root', 'Device Type' is 'Switches and Hubs', and 'Feature Category' is 'CLI'. The 'Type' is set to 'Devices'. In the 'Template Detail' section, the 'CLI Content' tab is active, showing the following code: `#INTERACTIVE  
no username initt<IQ>confirm<R>y  
#ENDS_INTERACTIVE]`. This code is circled in red.

- Distribua o molde.

## Verificar

- Verifique o estado no PI assim como no dispositivo:

The screenshot shows the 'Job Dashboard' for 'User Delete-3\_1'. It displays a table of job instances with the following data:

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

Below the table, there is a 'Job summary' section indicating 'Successful deployment on 1 device(s)'. A 'Job Results for User Delete-3' table shows the following details:

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

A tooltip on the right side of the screenshot displays the output of the configuration command, including the interactive prompt and the response: `configlet:  
#INTERACTIVE  
no username inittconfirm  
#ENDS_INTERACTIVE  
response:  
terminal width 0  
config t  
no username initt  
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 initt  
no username initt  
BGL14-1.S.04-2900-1(config)#]`

Nota: Para comandos interativos, observa-se que em poucos exemplos “pergunta interativa” quando copiado completamente não é executado corretamente. Em tal caso, você apenas precisa de datilografar a última palavra. Por exemplo, quando você mantém a frase completa falhará. **#INTERACTIVE** nenhuma operação dos **<IQ>**This do **initt** **username** removerá todas as configurações relacionadas **username** com o mesmo nome. Você quer continuar? **[confirm]** **<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

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]

## Comandos exemplo múltiplos

### Geração de chave de criptografia no interruptor

- Como o comando olha no dispositivo quando foi executado:

```
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 dos Multi-comandos:

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



- Distribua o molde.

**Verificar**

- Status final no PI e no dispositivo:

```
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 CNTUZ.
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.
```

- Uso do comando interativo:

```
#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
```

- Distribua o molde.

### Verificar

- Status final no 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

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)#>
```

## Troubleshooting

Atualmente, não existem informações disponíveis específicas sobre Troubleshooting para esta configuração.