

PI 3.2.単一回線および複数回線コマンドによるユーザ定義CLIテンプレートの作成

内容

[概要](#)

[前提条件](#)

[要件](#)

[使用するコンポーネント](#)

[設定](#)

[単一コマンドの例](#)

[デバイスからのユーザの削除](#)

[複数のコマンドの例](#)

[スイッチでの暗号キー生成](#)

[トラブルシューティング](#)

概要

このドキュメントでは、単一回線および複数回線コマンドを使用して、ユーザ定義のCLIテンプレートを作成する方法について説明します。

前提条件

要件

次の項目に関する知識があることが推奨されます。

- Prime Infrastructure (PI)
- テンプレート機能
- CLI コマンド

使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づいています。

- PI 3.2.

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期（デフォルト）設定の状態から起動しています。対象のネットワークが稼働中である場合には、どのようなコマンドについても、その潜在的な影響について確実に理解しておく必要があります。

設定

単一コマンドの例

デバイスからのユーザの削除

- デバイスにユーザ名を作成します。

注：この例では、ユーザ名innitiが削除されます。

```
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#
```

- [Configuration] > [Features & Technologies] > [My Templates] > [CLI Templates]に移動します
次のコマンドを使用してテンプレートを作成します。

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

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

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

• テンプレートを導入します。

注：デバイスを選択し、それに応じてテンプレートを再確認します。

Configuration / Templates / Features & Technologies

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	User Delete 1
BGL14-1.S.04-2900-1.cisco	no username initi y

Cancel Previous Finish

• 展開すると、対応するジョブがバックグラウンドで実行され、次に示すように[Job Status]をクリックすると、そのステータスを確認できます。

Prime Infrastructure

Configuration / Templates / Features & Technologies

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.

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

確認

• PIおよびDevice:

PI:

Administration / Dashboards / Job Dashboard / User Delete 1_1

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

デバイス上 :

ユーザ名の入力が削除されます。

```
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#
```

[Configuration] > [Features & Technologies] > [My Templates] > [CLI Templates]に移動します

- インタラクティブコマンドを使用して1つのテンプレートを作成する

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

次の例を参照してください。

```
#INTERACTIVE
```

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

```
#ENDS_INTERACTIVE
```

The screenshot shows the configuration page for a CLI template named "User Delete-3". The left sidebar shows a tree view of templates, with "User Delete-3" selected. 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", feature category is "CLI", and type is "Devices". In the "Template Detail" section, the CLI content is shown as: `#INTERACTIVE
no username inniti<IQ>confirm<R>y
#ENDS_INTERACTIVE]`. A red circle highlights this CLI content.

• テンプレートを導入します。

確認




• PIおよびDevice:

The screenshot shows the Job Dashboard in Cisco Prime Infrastructure. It displays a table of job instances for the "User Delete-3" template. The first instance (Run ID: 12907250) is marked as "Success" with a duration of 00:00:02 and a start time of 2017-07-25 15:16. Below the table, there is a "Job Results for User Delete-3" section showing a successful deployment on one device (10.106.68.57). A tooltip shows the CLI output for the job: `configlet:
#INTERACTIVE
no username inniticonfirmy
#ENDS_INTERACTIVE
response:
terminal width 0
config t
no username inniti
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 innitino username inniti
BGL14-1.S.04-2900-1(config)#]`

**注：Interactiveコマンドの場合、一部の例では、コピーが完全に正しく実行されないことが確認されます。このような場合、最後の単語を入力するだけです。たとえば、完全な文を保持すると失敗します。#INTERACTIVE no username inniti <IQ>この操作を実行すると、同じ名前のすべてのユーザ名関連の設定が削除されます。Do you want to continue?[確認]
]<R>Y #ENDS_INTERACTIVE。**

The screenshot shows the configuration page for a CLI template named "User Delete". The left sidebar shows a tree view of templates, with "User Delete" selected. The main area is divided into "Template Basic" and "Template Detail" sections. In the "Template Basic" section, the name is "User Delete", author is "root", device type is "Switches and Hubs", feature category is "CLI", and type is "Devices". In the "Template Detail" section, the CLI content is shown as: `#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`

'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
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]

Total 1 

複数のコマンドの例

スイッチでの暗号キー生成

- 実行時のデバイスでのコマンドの外観 :

```
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
```

- マルチコマンドの使用 :

```
<MLTCMD>
```

```
crypto key generate rsa
```

```
yes
```

```
2048
```

```
</MLTCMD>
```

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

Save Save as New Template Cancel Deploy History

• Template Basic

Name: crypto Author: user Device Type: Switches and Hubs OS Version: [dropdown]
 Description: [text] Feature Category: CLI Type: Device Forti
 Tags: [text]

• Template Detail

CLI Content Form View Add Variable Add Global Variable Global Variables

```

->BGL14-1#
crypto key generate rsa
yes
2048
->BGL14-1#

```

- テンプレートを導入します。

確認

- PIおよびデバイスの最終ステータス：

Administration / Dashboards / Job Dashboard / crypto_1

Success

Showing latest 5 Job instances

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.

```

- 対話型コマンドの使用：

```
#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<I>yes/no<R>yes<I>512<R>2048  
#ENDS_INTERACTIVE
```

• テンプレートの展開
確認

• PIの最終ステータス :

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)#]]>
```

トラブルシューティング

現在、この設定に関する特定のトラブルシューティング情報はありません。