

使用配置組配置SD-WAN邊緣路由器

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簡介

本文檔介紹如何使用配置組配置Cisco SD-WAN邊緣路由器。

必要條件

思科建議您瞭解以下主題：

- [思科軟體定義廣域網路\(SD-WAN\)](#)

需求

- Cisco vManage
- Cisco WAN邊緣路由器

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- Cisco vManage 20.9.3.2版
- Cisco WAN邊緣路由器版本17.9.3a

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

工作流是指導工作流庫，其中包含執行特定任務的某些步驟。它們旨在克服功能模板所面臨的挑戰。在大型網路部署中，部署了大量的功能模板，使其更難管理。此外，手動管理功能模板可能是一個緩慢而乏味的過程。另一個限制是功能模板是特定於裝置的，這限制了其可重用性。

藉助引導式工作流程，您可通過向使用者提供逐步說明來簡化配置流程。可在整個裝置系列中重複使用配置元件，而不是只針對一種裝置型號。此外，您還可以根據共用配置對裝置分組。

組態

導覽至Workflows > Quick Connect。

WAN Edges	CERTIFICATE STATUS	LICENSING	REBOOT
8 Reachable 7 Unreachable	0 Warning	1 Assigned 14 Unassigned	2 Last 24 hrs

Site BFD Connectivity (13)	Site
Full	8
Partial	0
Unavailable	5

Transport Interface Distribution	Count
< 10 Mbps	38
10 Mbps - 100 Mbps	0
100 Mbps - 500 Mbps	0
> 500 Mbps	0

選擇快速連線

導航到建立配置組。

In Progress (1)

- Create Configuration Group (Last edited 4 minutes ago)

Library All Categories

- Quick Connect: Onboard your devices.
- Software Upgrade: Upgrade your devices with the latest IOS XE SD-WAN image.
- Sync and install HSEC Licenses: Easily sync and install licenses on HSEC compatible devices.
- Configure Teleworker Devices: Get secure access to your corporate network from the comfort of your home.
- Create Configuration Group: Configure your WAN with smart configuration groups. Use recommended settings to get the WAN up and running quickly.**
- Deploy Configuration Group: Push configuration to devices in your WAN.

選擇建立配置組

輸入配置組的名稱和說明。

Create Configuration Group

We'll guide you through the required settings to quickly configure your WAN. We'll also recommend smart defaults along the way.

Name
San_Jose_Branch
ex. EastCoastBranches

Description (Optional)
San Jose Branch
ex. Intended for East Coast location

輸入名稱和說明

建立新的基本配置檔案。

Site Configurations

Configuration Groups begin with smart default settings pre-populated for the user. You can modify or add to these settings as you wish.

Site Type

Configuration Group Type
Single Router

Site Settings

Local Device Access*
[dropdown] [password field] [confirm password field]
Example: mpls@123456

Banner

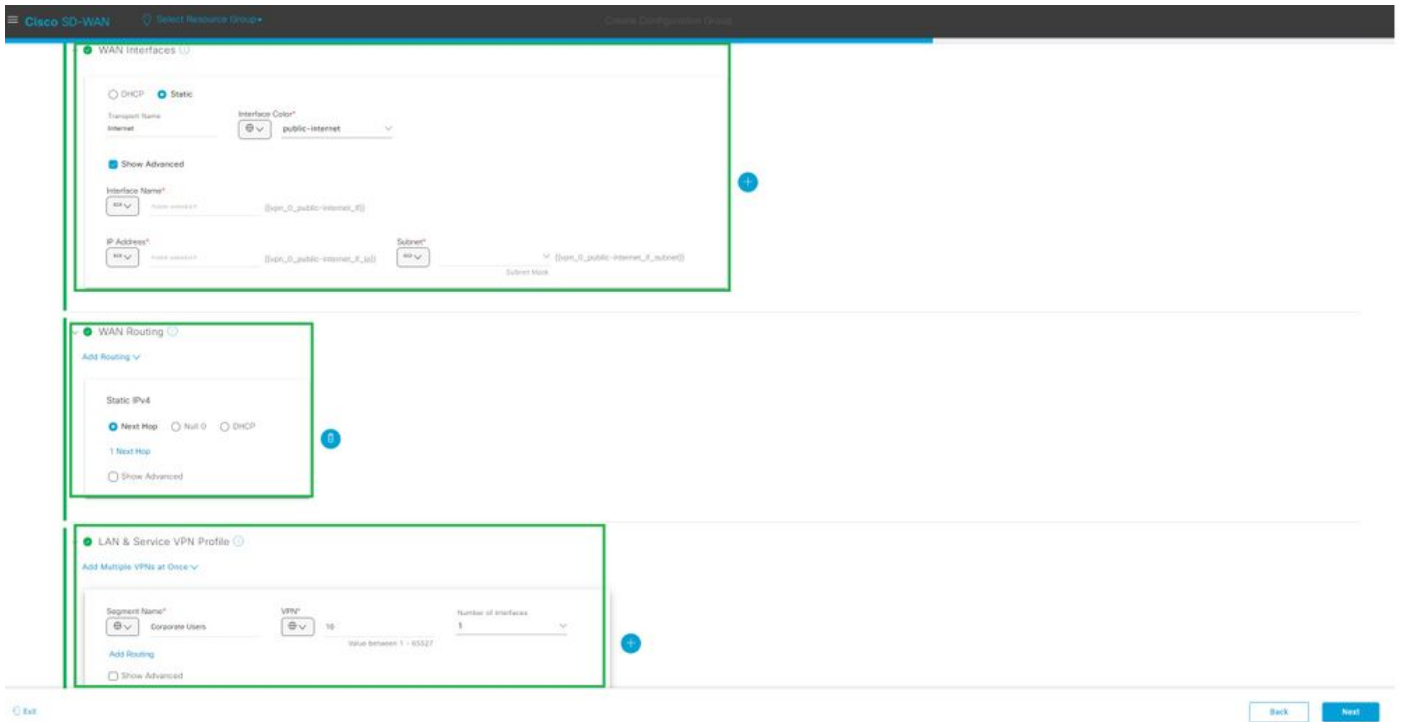
You can configure two different banner text strings, one to be displayed before the login prompt (Login banner), the other to be displayed after a successful login to the device (MOTD/Message-of-the-Day)

MOTD* [dropdown] [text field] [dropdown]
Example: default Enter MOTD Message

Login* [dropdown] [text field] [dropdown]
Example: default Enter Login Message

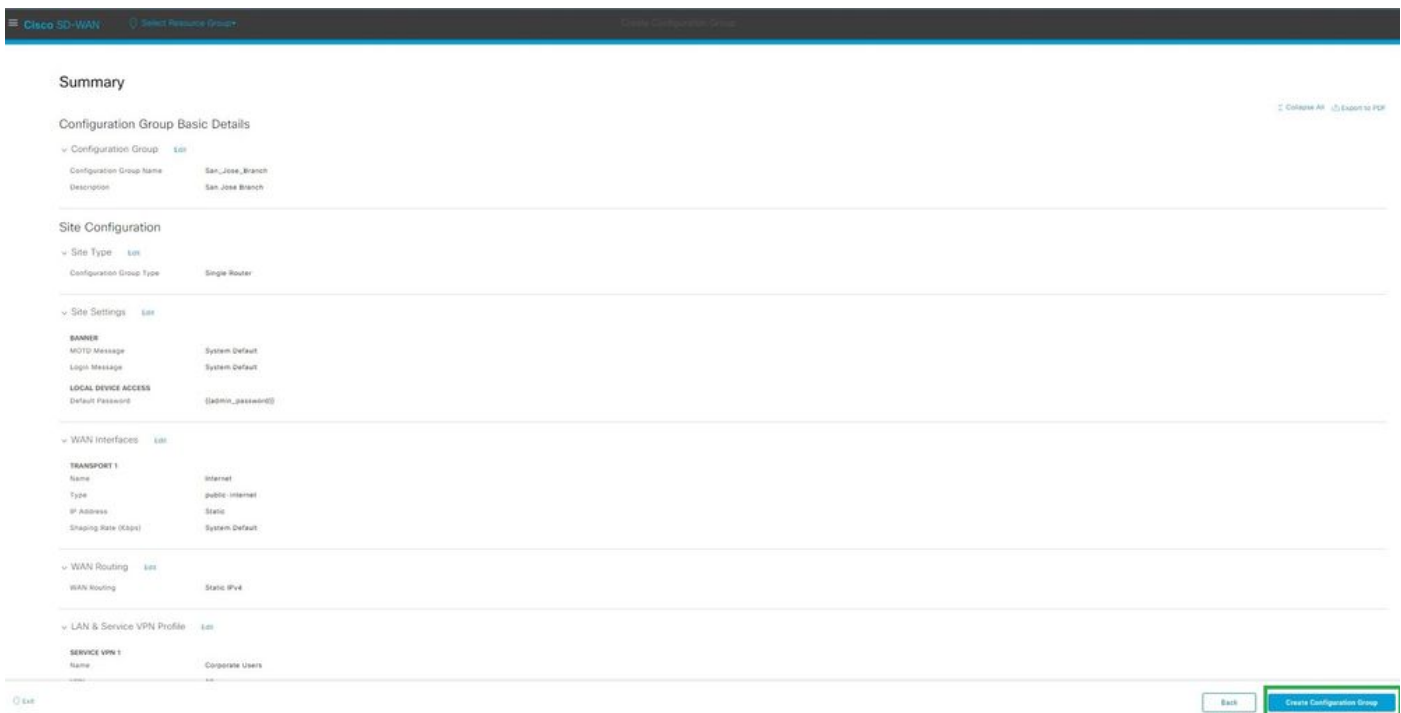
新增基本配置檔案

建立WAN和LAN配置檔案。您可以選擇多個WAN和LAN介面。



WAN和LAN配置檔案

驗證配置檔案的摘要並建立配置組。



摘要

將裝置與配置組關聯。

Done!

Configuration Group was created successfully. You can check the details on the configuration group page.

What's Next?

[Go to Configuration Groups](#)

[Associate Devices to Configuration Group](#)

[View Configuration Group San_Jose_Branch's Details](#)

[Go Back to Workflows Home](#)



將裝置與配置組關聯

選擇要新增到San_Jose_Branch配置組的裝置。

Choose devices

Select the devices you would like to add to the San_Jose_Branch configuration group.

Available Devices (10)

Device Number	Device Model	Hostname	Assigned Config Group	System IP	Site ID	Serial No./Token
<input type="checkbox"/> CSR-1C780555-6436-5829-0563-0A831C3A79DC	CSR1000v	Dallas_HQ	-	10.10.10.13	15	692A408C
<input type="checkbox"/> ASR1002-4X-JA023A298XR	ASR1002-4X	BBW_DC_Edge	-	10.50.50.52	502	04881049
<input type="checkbox"/> ISR4331-K9-FD0201717N8	ISR4331	EDGE1	-	10.10.10.200	200	C9140A
<input type="checkbox"/> C1111-4P9A-F0L2149930Z	C1111-4P9A	BBW_Branch_Edge	-	10.50.50.51	501	01302808
<input type="checkbox"/> CSR-5489C625-2655-6093-C917-8EEFDEA8A4E2	CSR1000v	-	-	-	-	66440c2011e33d469572289921e12087
<input type="checkbox"/> CSR-40589E60-9690-8C74-9144-57096880AE31	CR000V	-	-	-	-	0a30f910a884662b467c5e2b6a6b42
<input type="checkbox"/> ISR4331-K9-FD020211D98	ISR4331	EDGE2	-	10.10.10.201	200	A65A42
<input type="checkbox"/> CSR-4C31DE37-5885-5A21-011A-6A33F7B78866	CR000V	-	-	-	-	a80c2c94df54d05a69523ba792550e
<input checked="" type="checkbox"/> ISR401-K9-FD0204957R0	ISR401-X	Branch_1	-	101.101.101.100	1001	012F479A
<input type="checkbox"/> ISR4331-K9-FD0204001LE	ISR4331	Branch_2	RCN_Branch	202.202.202.202	2002	011A8782

選擇裝置

檢視要新增的裝置的資訊。您可以立即部署，也可以稍後部署。

Summary

Review the information for the devices to be added. You can deploy now or later.

Devices To Be Added (1) [Edit](#)

Chassis Number	Device Model	Hostname	Assigned Config Group	System IP	Site ID	Serial No./Token
ISR4451-X/K9-FOC20468TWU	ISR4451-X	Branch_1	-	101.101.101.109	1001	012F47FA

Items per page: 25 1 - 1 of 1

[Exit](#)

[Back](#)

[Save](#)

摘要

使用配置組調配裝置。

Done!

The selected devices have been associated to the configuration group, San_Francisco.

What's Next?

[Provision Devices in your Configuration Group](#)

[View Configuration Group San_Francisco's Details](#)

[View List of Configuration Groups](#)

[Workflows Home](#)

[Go Back to Workflows Home](#)



調配裝置

選擇要部署的裝置。

Select Devices to Deploy

Select the devices below to deploy

Edge Devices (1)

Search Table

1 selected Associate Devices

<input type="checkbox"/>	Chassis Numbers	Hostname	Tags	System IP	Site ID	Device Status	Added by Rule	Last Configured	Up To Date	Unsupported Features
<input checked="" type="checkbox"/>	ISR4451-X/K9-FOC20468TWU	Branch_1	-	101.101.101.109	1001	-	false	-	False	0

選擇要部署的裝置

新增並檢查裝置特定配置。

Add and Review Device Configuration

We've autogenerated minimal configurations to make it easier for you to bring up your devices. Modify them as needed and directly edit the table to add System IP and Site IDs.

Search

ISR4451-X/K9-FOC20468TWU
Branch_1 101.101.101.109

Device Information

Site id*	System IP*	Rollback Timer (sec)*
1001	101.101.101.109	300
Host Name*	admin_password*	vpn_0_public-internet_if*
Branch_1	*****	GigabitEthernet0/0/0
vpn_0_public-internet_if_ip*	vpn_0_public-internet_if_subnet*	vpn_0_static_ipv4_network_addr*
10.201.180.242	255.255.255.128	0.0.0.0
vpn_0_static_ipv4_nexthop_ipaddr*	vpn_0_static_ipv4_subnet*	vpn_10_if_0*
10.201.180.129	0.0.0.0	GigabitEthernet0/0/2
vpn_10_if_0_ipaddr*	vpn_10_if_0_subnet*	
10.10.1.1	255.255.0.0	

Review Back Next

新增和審閱

驗證使用CLI預覽和部署推送的配置。

Summary

Please review the details.

Device ID	Site Id	System IP	Rollback Timer (sec)	Host Name	admin_password	vpn_0_publicinternet_if	vpn_0_publicinternet_if_ip	vpn_0_publicinternet_if_subnet	vpn_0_static_ipv4_network_addr	vpn_0_stat
ISR4451-X/K9-FOC20468TWU	1001	101.101.101.109	300	Branch_1	*****	GigabitEthernet0/0/0	10.201.180.242	255.255.255.128	0.0.0.0	10.201.180.242

1 Record Items per page: 25 1 - 1 of 1

[Exit](#)[Back](#)[Deploy](#)

使用CLI預覽和部署驗證配置

驗證

檢視部署狀態。

Deployment request for device(s) has been submitted

What's Next?

[View Deployment Status](#)[Deploy Another Configuration Group](#)[View San_Francisco Associated Devices](#)

檢視部署狀態

導航到Configuration > Devices > Verify the Assigned Configuration Group。

Cisco SD-WAN Select Resource Group Configuration · Devices

WAN Edge List Controllers

Search

Change Mode Upload WAN Edge List Export Bootstrap Configuration Sync Smart Account Add PAYG WAN Edges

Total Rows: 20

Chassis Number	Tags	Hostname	Site ID	Region ID	Mode	Device Status	Assigned Config Group	Assigned Template	Device Model	Draft Mode	Serial No./Token	Reachability	C
ISR4331-K9-F00204301UE	Add Tag Branch_2		2002	-	vManage	In Sync	RCH_Branch	-	ISR4331	Disabled	011A07B2	reachable	...
ISR4451-X/K9-F0C20488TWU	Add Tag Branch_1		1001	-	vManage	In Sync	San_Francisco	-	ISR4451-X	Disabled	012F47FA	reachable	...

分配的配置組

導覽至 Configuration > Templates > Configuration Groups。

Cisco SD-WAN Select Resource Group Configuration · Templates

Configuration Groups Feature Profiles Device Templates Feature Templates

Configuration Groups (2)

Search Table

Add Configuration Group As of: Sep 26, 2023 03:04 PM

Name	Description	Device Solution	Number of Devices	Devices Up to Date	Number of Feature Profiles	Updated By	Last Updated On	Actions
San_Francisco	San_Francisco	sdwan	1	1	4	admin1	Sep 26, 2023, 2:45:16 PM	...
RCH_Branch	Richardson Site	sdwan	1	1	4	admin1	Sep 25, 2023, 7:43:16 AM	...

配置組

這將捕獲連線的配置模板和裝置狀態。

<#root>

Branch_1#show sdwan system status

```

Personality: vEdge
Model name: ISR4451-X/K9
Device role: cEdge-SDWAN
Services: None

vManaged: true

```

<----- Managed by vManage
Commit pending: false
Configuration template: San_Francisco
<----- Configuration Group Attached
Chassis serial number: FJC2104D0PQ

相關資訊

[配置組和功能配置檔案](#)

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。