

Deploy Example on CSM to ASA

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Introduction

This document describes a deployment on Cisco Security Manager (CSM) using workflow and ticket base.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Knowledge of Adaptive Security Appliance (ASA)
- Knowledge of Firewall configuration

Components Used

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

- Windows Server 2012
- CSM v4.22
- ASA v9.12.5

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, ensure that you understand the potential impact of any command.

Background Information

Specific requirements for this document include:

- Ensure you have enough privileges to make the necessary changes
- Ensure that you understand the changes you are going to make with each deployment

- Choose the appropriate guide depending on your current configuration

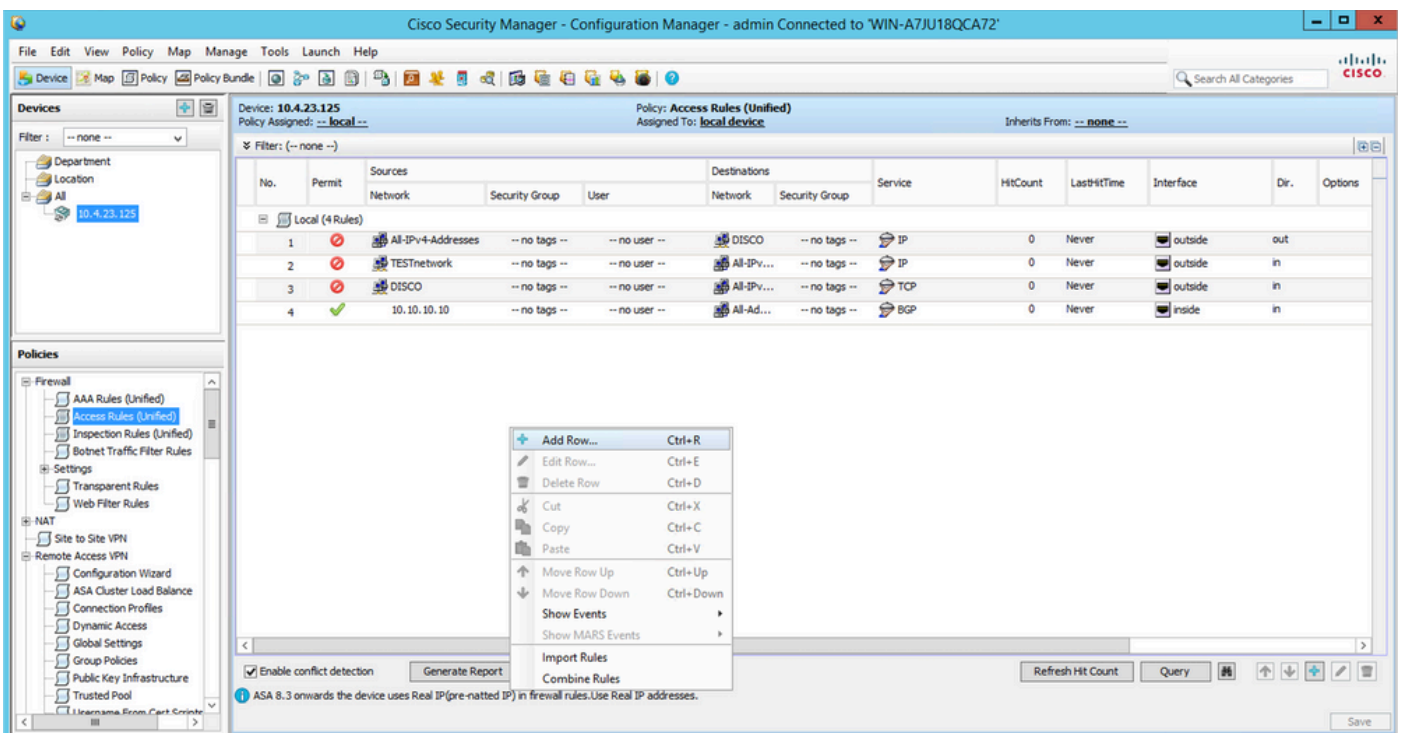
Configure

Non-Workflow Mode without Ticket Management

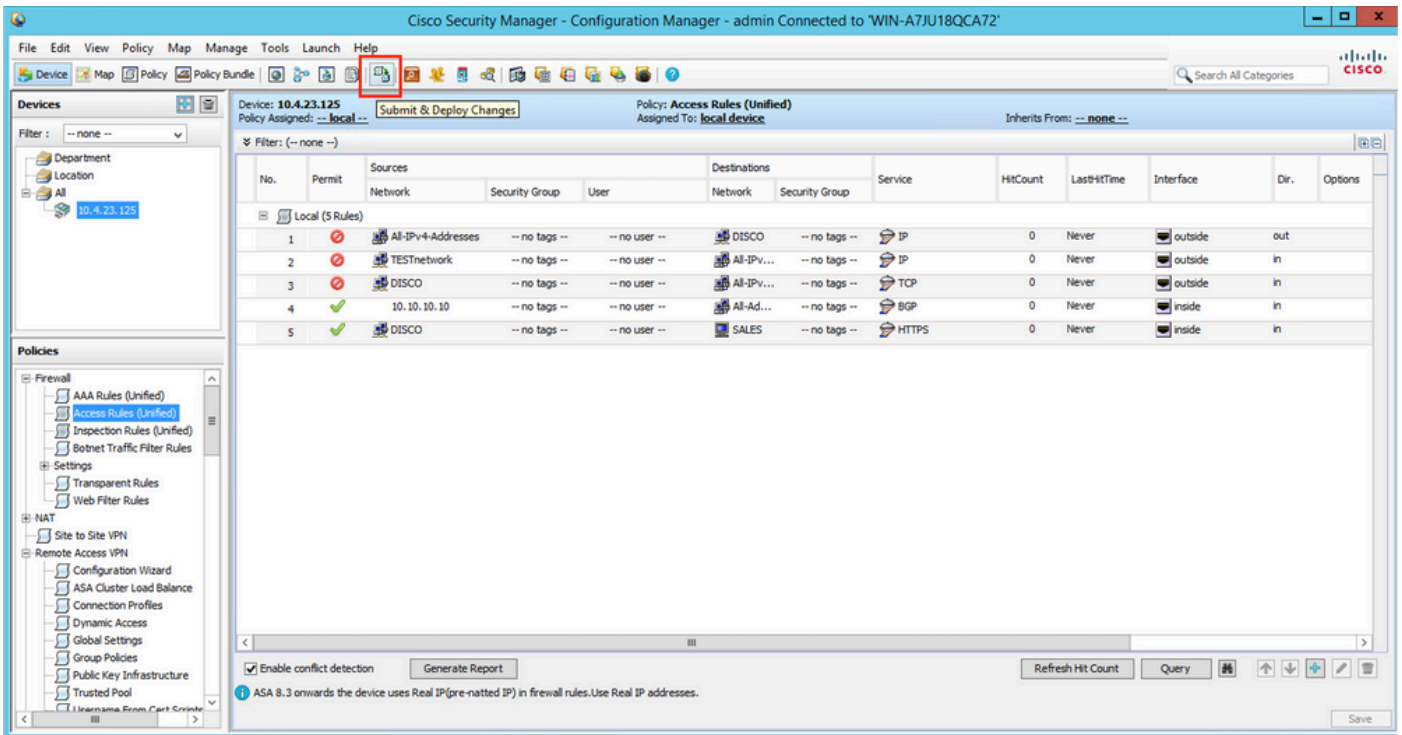
Step 1. Log in to Cisco Security Manager Client. From the dropdown, choose Configuration Manager.



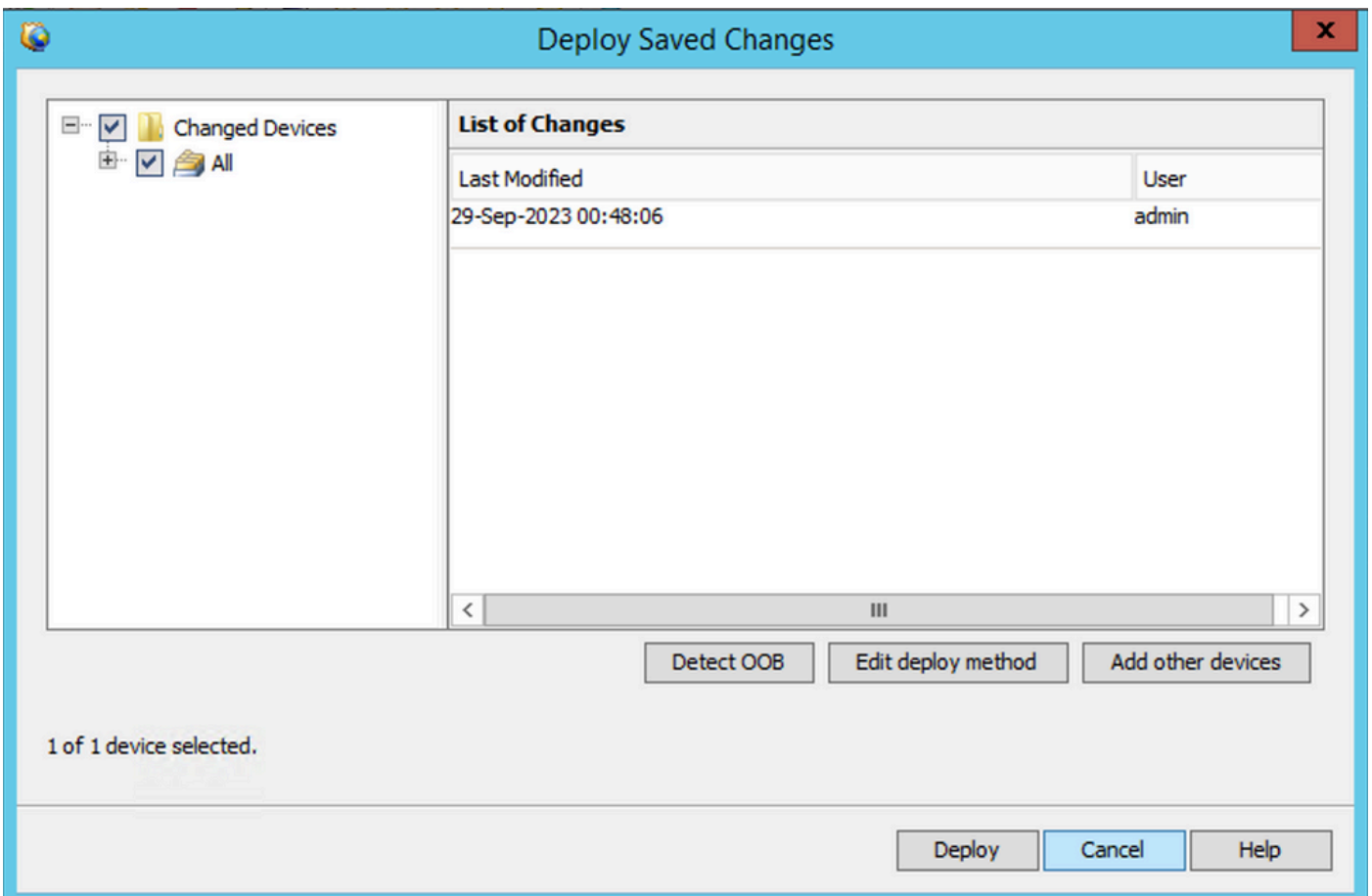
Step 2. Make changes that you like to deploy.

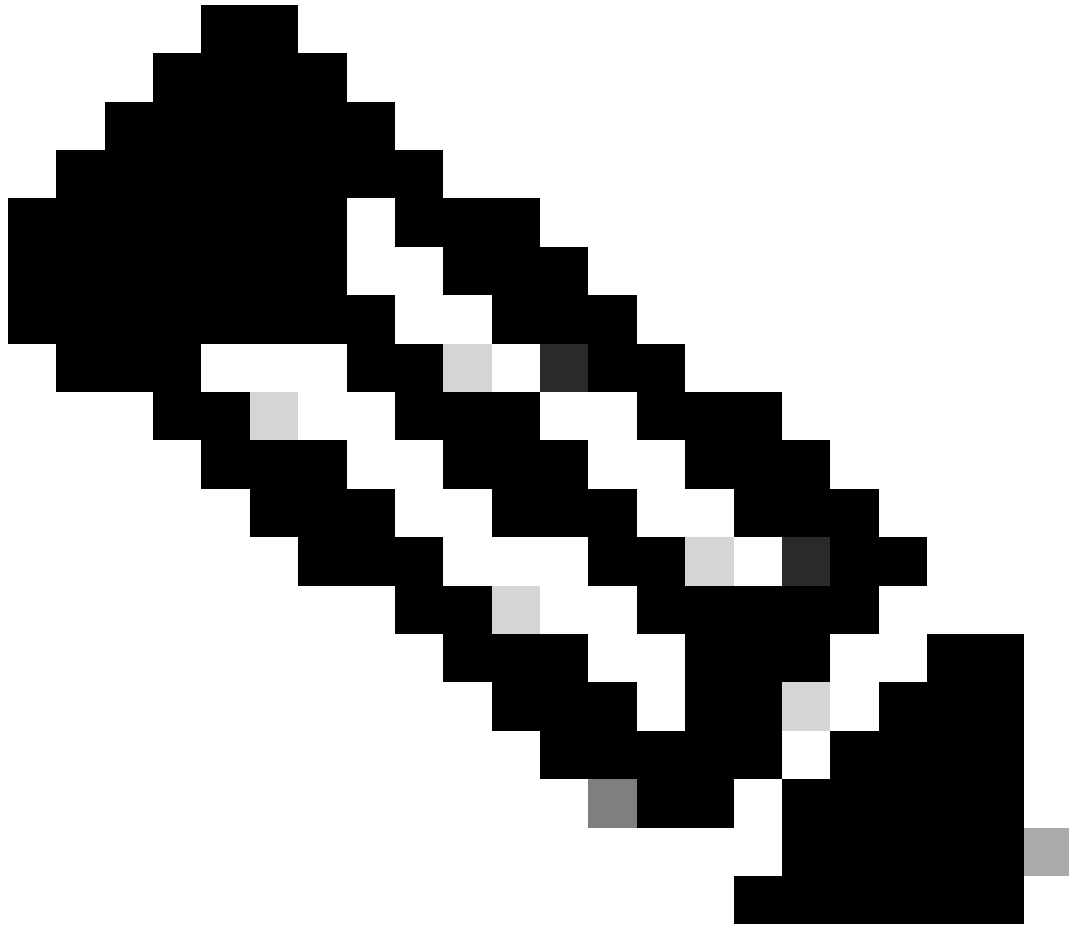


Step 3. Navigate to Submit & Deploy Changes.



Step 4. Choose the devices that you want to deploy to and when you are ready, click **Deploy**.





Note: While deployment is running, a pop-up window appears where you can monitor the progress.

Deployment Status Details for deployment started by admin at Fri Sep 29 00:30:09 PDT 2023

Deployment Status Details

0%

Status: Deploying (0 out of 1 devices completed.)
 Deployment Job Name: admin_job_2023-09-29 00:30:09.419
 Devices To Be Deployed: 1
 Devices Deployed Successfully: 0
 Devices Deployed With Errors: 0

Deployment Details (1/1 loaded)

Device	Status	Summary	Method	Config	Transcript	Last Ticket(s)
10.4.23.125	Deploying		Device			admin_29.Sep.2023_0

Messages

Messages	Severity
--NO messages--	i

Description

Action

Generate Report Refresh Abort Close Help

Step 5. (Optional) Once the deployment is accomplished, you can download the report or Transcript.

Deployment Status Details for deployment started by admin at Fri Sep 29 00:48:45 PDT 2023

Deployment Status Details

100%

Status: Deployed (1 out of 1 devices completed.)
 Deployment Job Name: admin_job_2023-09-29 00:48:45.286
 Devices To Be Deployed: 1
 Devices Deployed Successfully: 1
 Devices Deployed With Errors: 0

Deployment Details (1/1 loaded)

Device	Status	Summary	Method	Config	Transcript
10.4.23.125	SUCCEEDED		Device		

Messages

Messages	Severity	Description
Deployment Log	i	Task for 10.4.23.125 started at 29-Sep-2023 00:48:49 PDT There is a minor change on device 10.4.23.125. OS version changed. The provider is CLI The running version on device is: 9.16(4)14, target version is: 9.15(1), platform: Cisco ASA Adaptive Security Virtual Appliance, image: disk0:/asa9-12-4-7-mp-k8.bin. The target version in CSM database is: 9.12(2) platform: Cisco ASA Adaptive Action

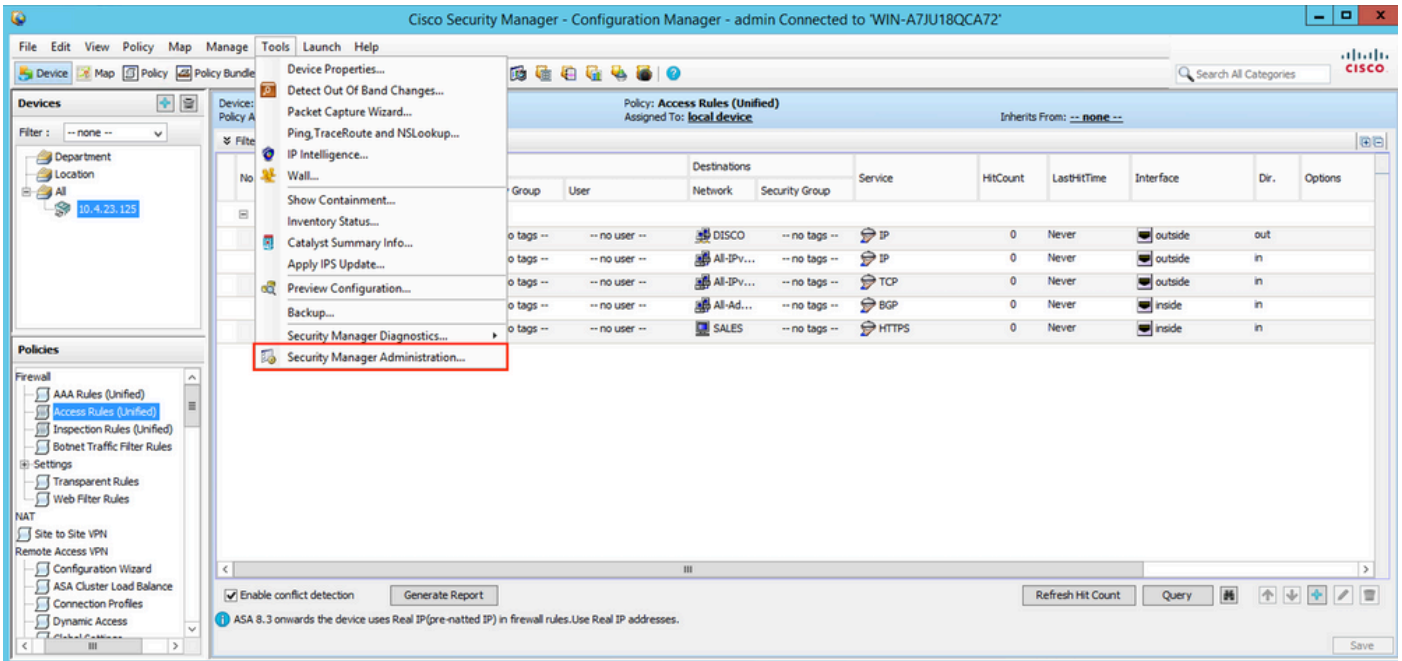
Generate Report Refresh Abort Close Help

Non-Workflow Mode with Ticket Management

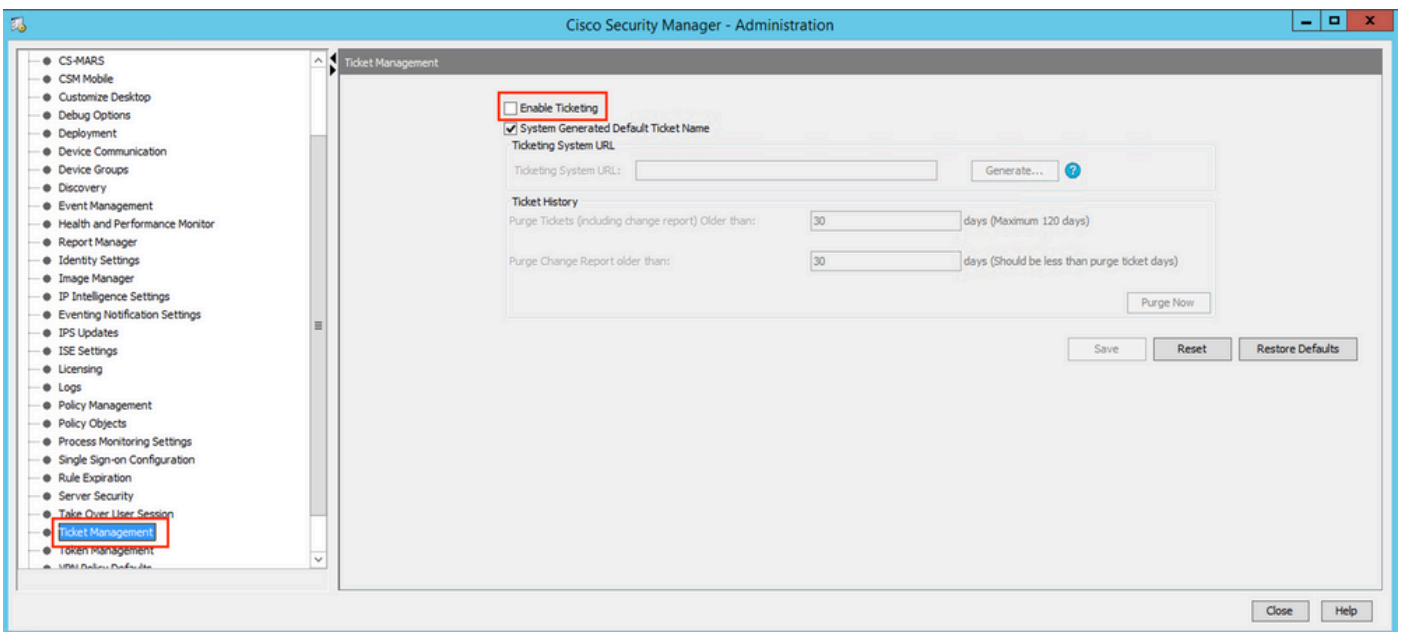
Enable Ticket Management

In order to use the ticket base, it must be enabled. If you already have a ticket base flow enabled, skip this step.

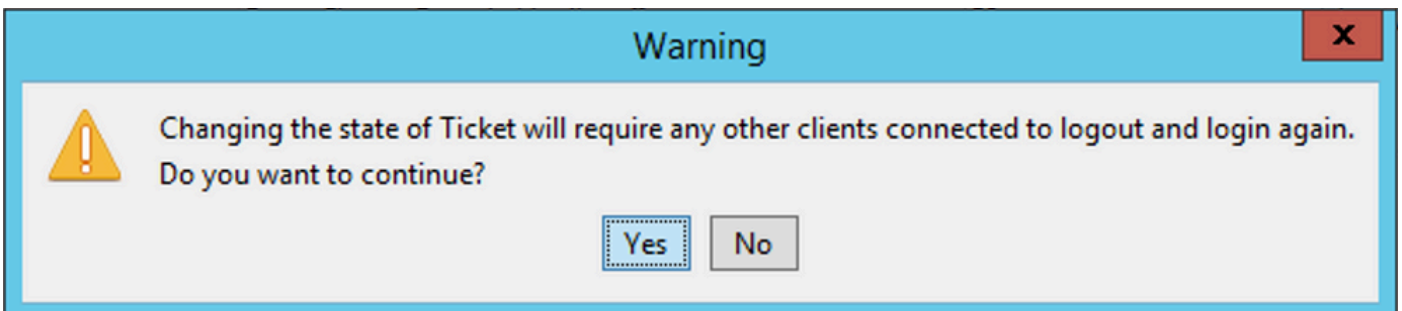
Step 1. Navigate to Tools > Security Manager Administration.



Step 2. Navigate to **Ticket Management** and check the option **Enable Ticketing**.

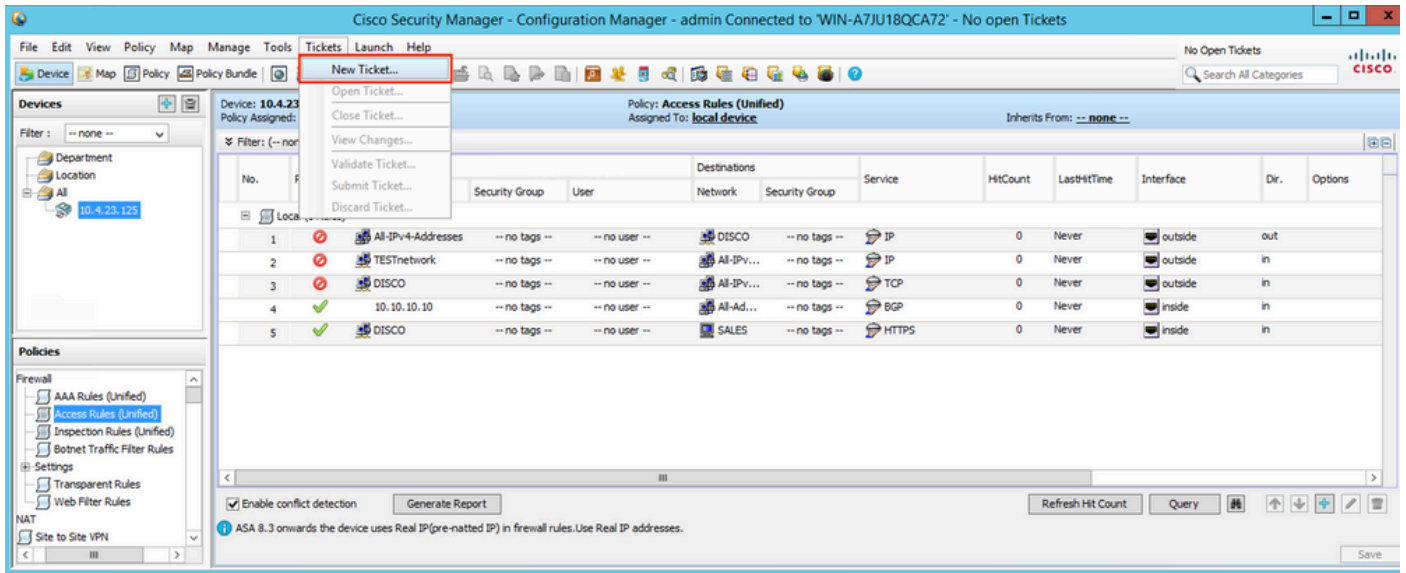


Step 3. Click yes in order to confirm that you understand the warning and want to proceed.

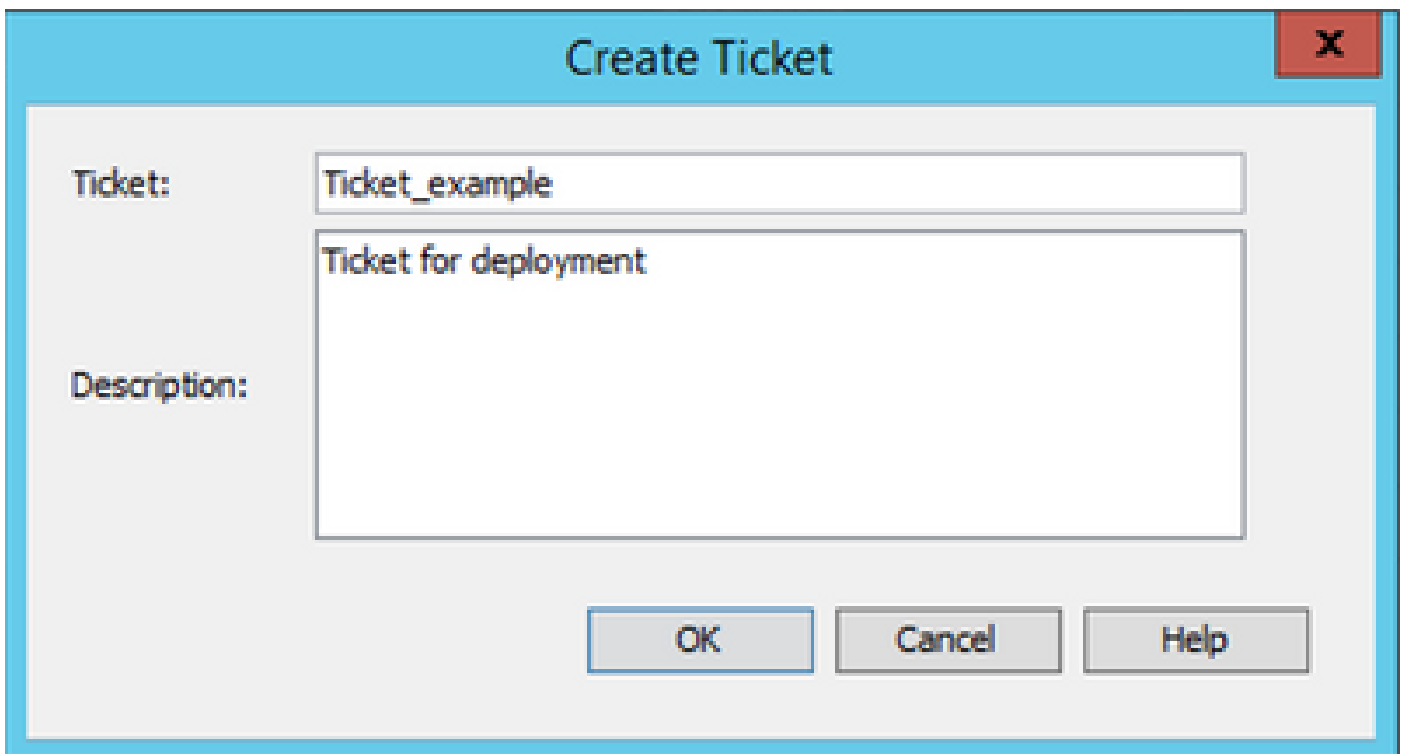


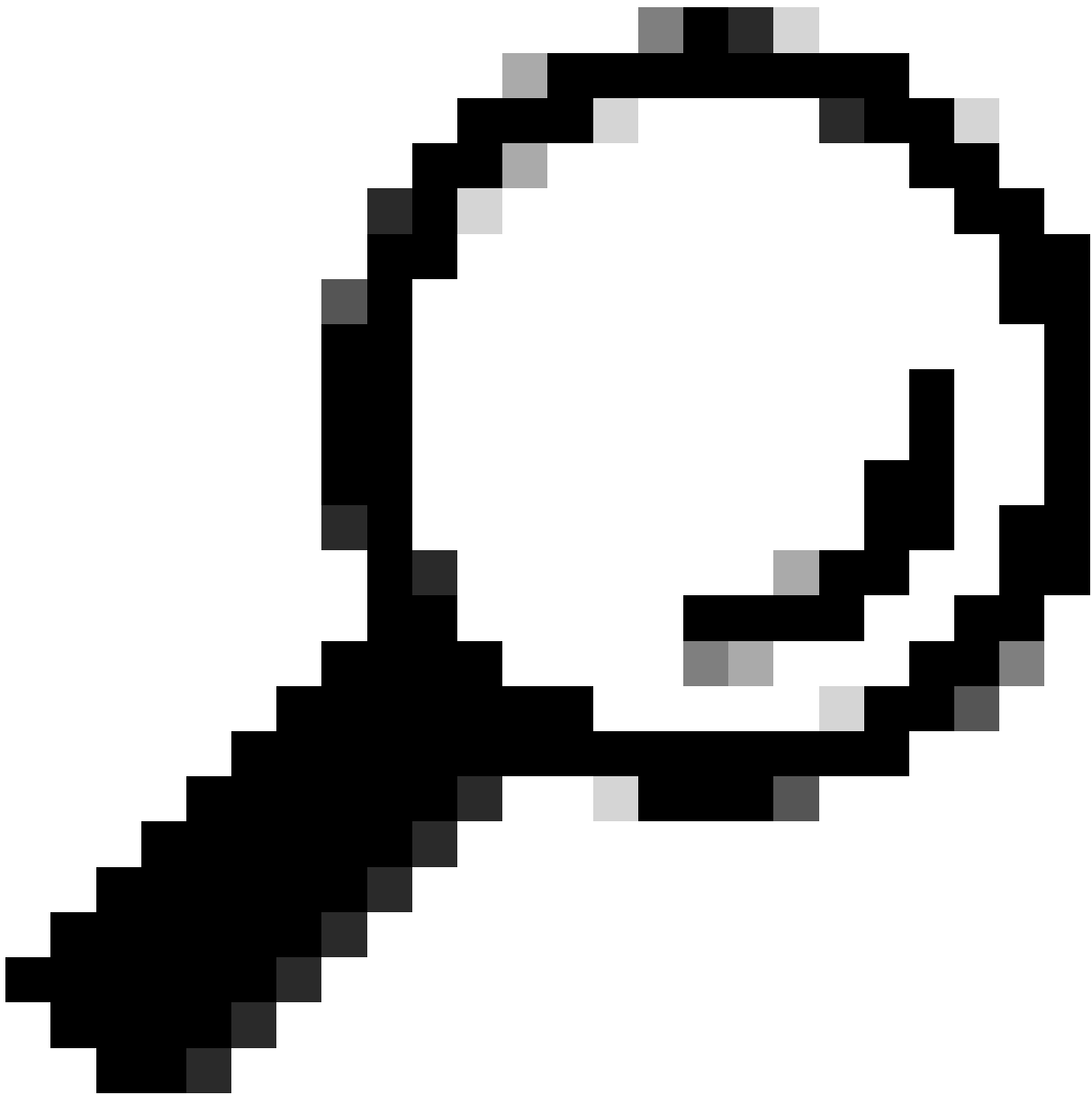
Deployment with Non-Workflow Mode with Ticket Management

Step 1. Open a new ticket by navigating to **Ticket > New ticket**.



Step 2. Name the new ticket and add a description.





Tip: You can verify the new ticket is open and the current ticket in use, at the top right of the screen.

Cisco Security Manager - Configuration Manager - admin Connected to 'WIN-A7JU18QCA72' - Ticket: Ticket_example

File Edit View Policy Map Manage Tools Tickets Launch Help

Device Map Policy Policy Bundle

Device: 10.4.23.125 Policy: Access Rules (Unified) Assigned To: local device Inherits From: none

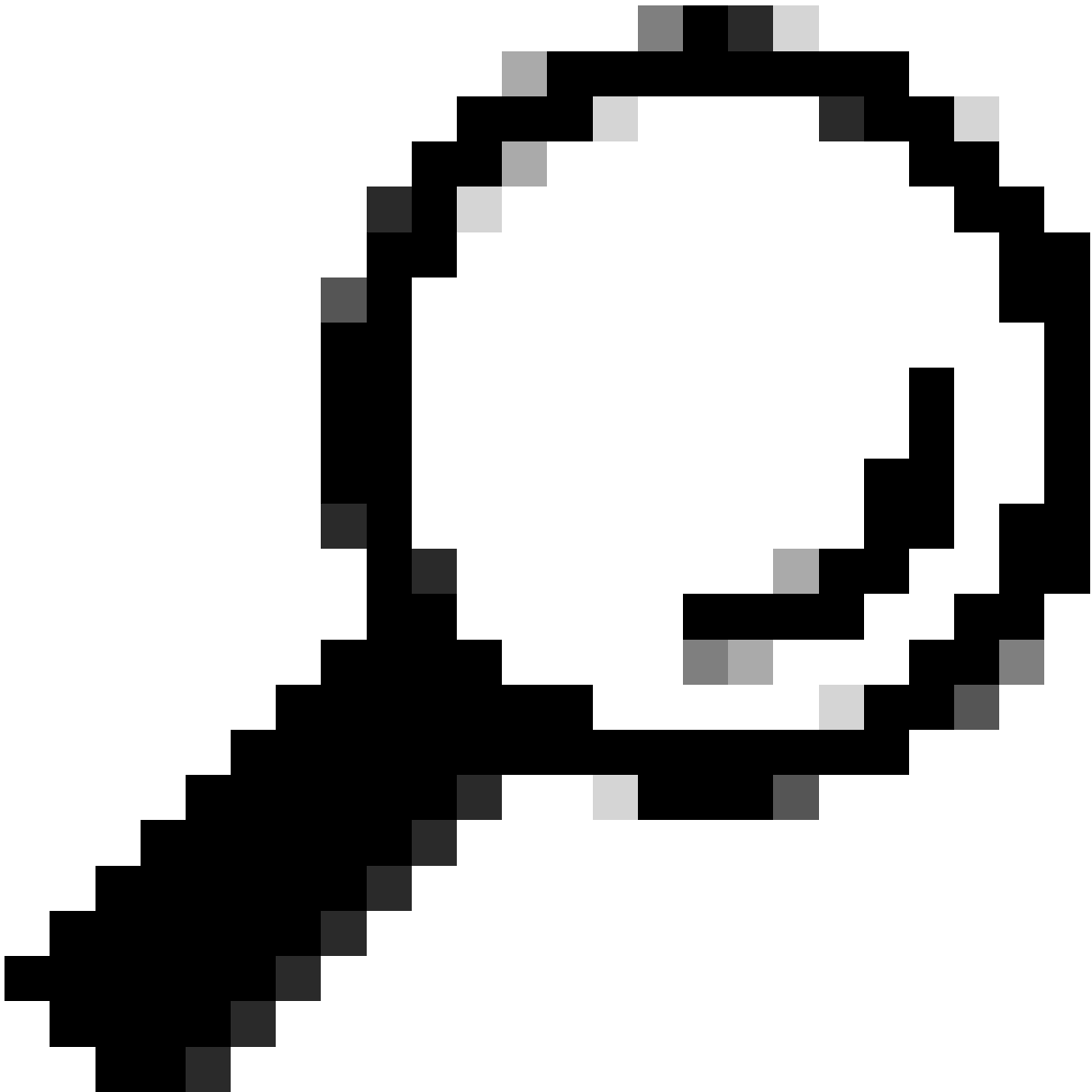
Filter: (none)

No.	Permit	Sources			Destinations		Service	HitCount	LastHitTime	Interface	Dir.	Options
		Network	Security Group	User	Network	Security Group						
Local (5 Rules)												
1		All-IPv4-Addresses	-- no tags --	-- no user --	DISCO	-- no tags --	IP	0	Never	outside	out	
2		TESTNetwork	-- no tags --	-- no user --	All-IPv...	-- no tags --	IP	0	Never	outside	in	
3		DISCO	-- no tags --	-- no user --	All-IPv...	-- no tags --	TCP	0	Never	outside	in	
4		10.10.10.10	-- no tags --	-- no user --	All-Ad...	-- no tags --	BGP	0	Never	inside	in	
5		DISCO	-- no tags --	-- no user --	SALES	-- no tags --	HTTPS	0	Never	inside	in	

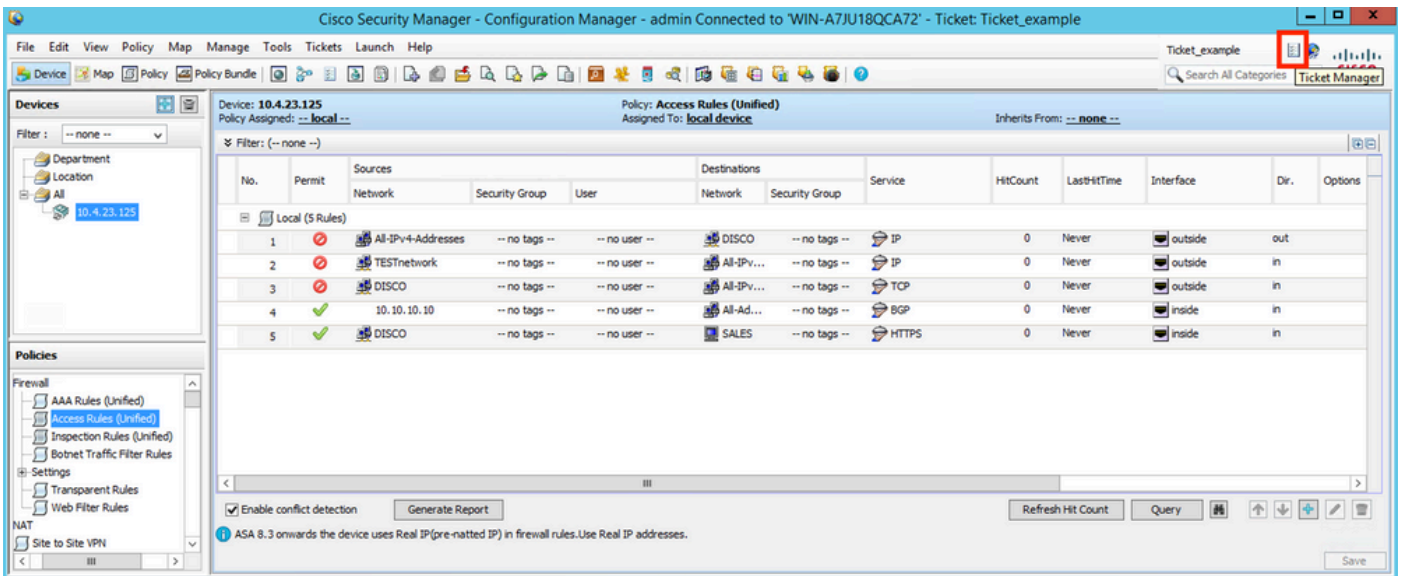
Enable conflict detection Generate Report Refresh Hit Count Query

ASA 8.3 onwards the device uses Real IP(pre-natted IP) in firewall rules.Use Real IP addresses.

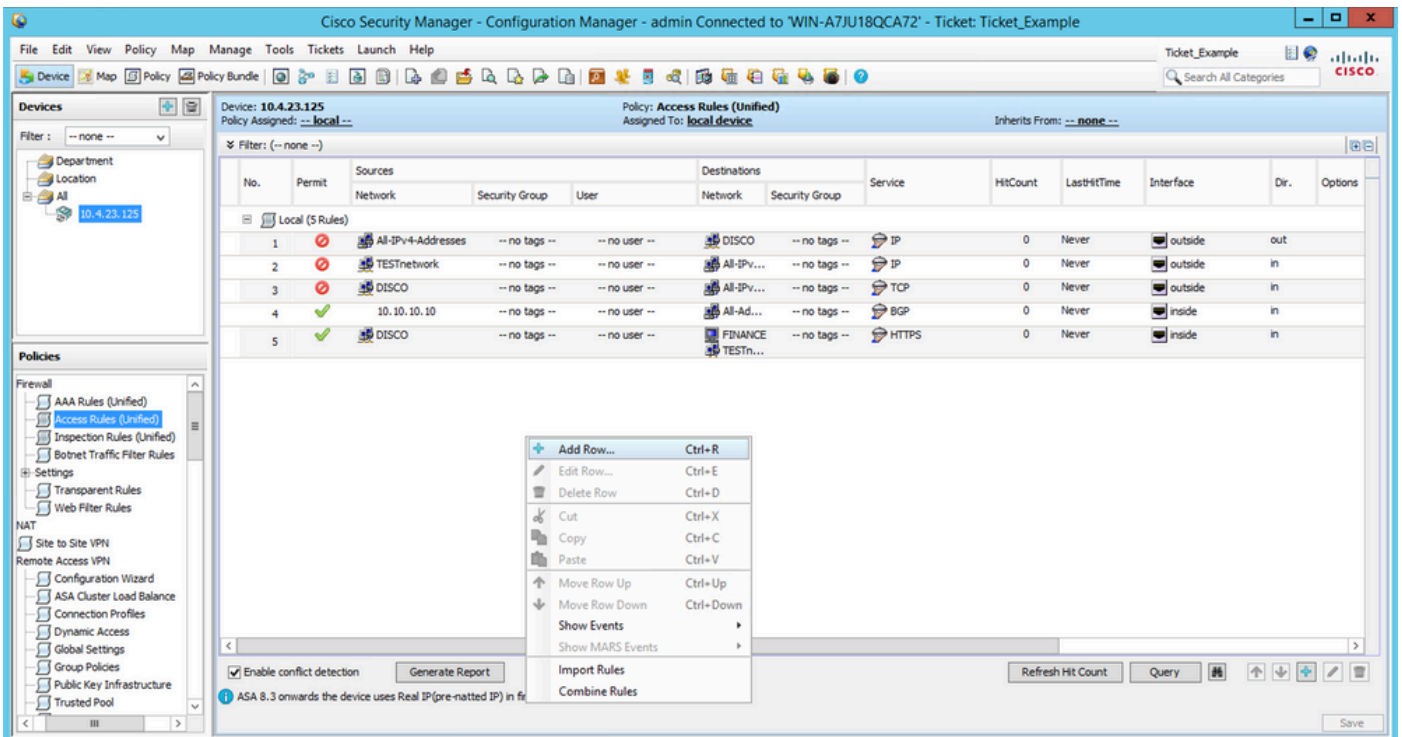
Save



Tip: Alternatively you can use Ticket Manager in order to Create, Submit, and Discard tickets by clicking on the top right button.



Step 3. Make necessary changes to the configuration and save.



Step 4. (Optional) You can Discard or View Changes.

Ticket Manager

Filter: (-- none --) Q- Type to Search

Ticket	Last Modified	State	User	Last Action
	02-Oct-2023 20:08:19	Discarded	admin	Ticket discarded
	29-Sep-2023 00:48:32	Submitted	admin	Ticket approved
	29-Sep-2023 00:48:06	Submitted	admin	Ticket approved
admin_29_Sep_2023_00_28_02	29-Sep-2023 00:28:58	Submitted	admin	Ticket approved
admin_29_Sep_2023_00_23_05	29-Sep-2023 00:26:44	Submitted	admin	Ticket approved
Ticket Example	02-Oct-2023 21:45:36	Edit Open	admin	Create

Create Open Close Validate Submit **Discard** View Changes Refresh

Details History

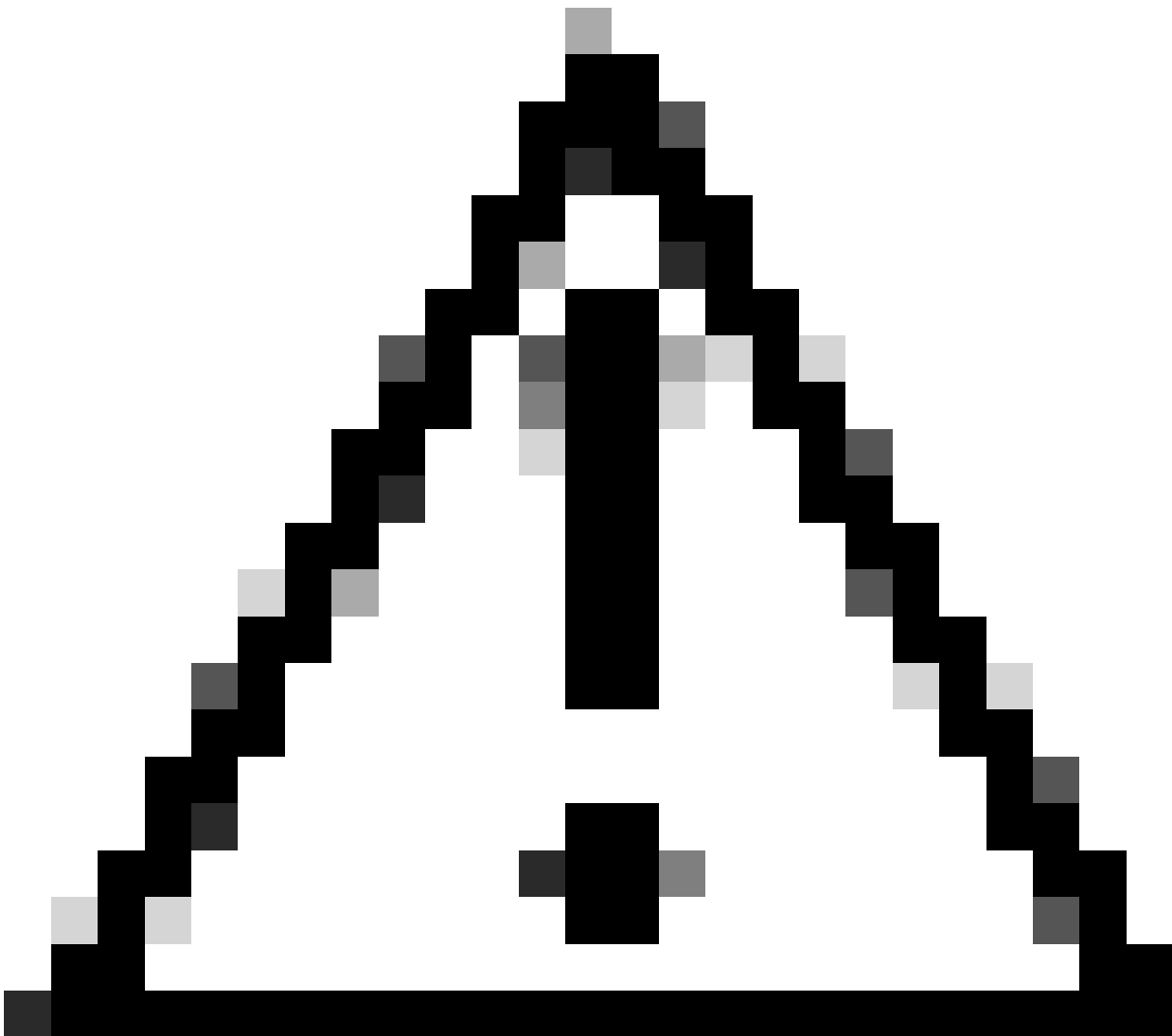
Ticket:

Created: 02-Oct-2023 21:45:36
Last Modified: 02-Oct-2023 21:45:36
Description: None

Comments History:

Comments	Date/Time	User
----------	-----------	------

Close Help

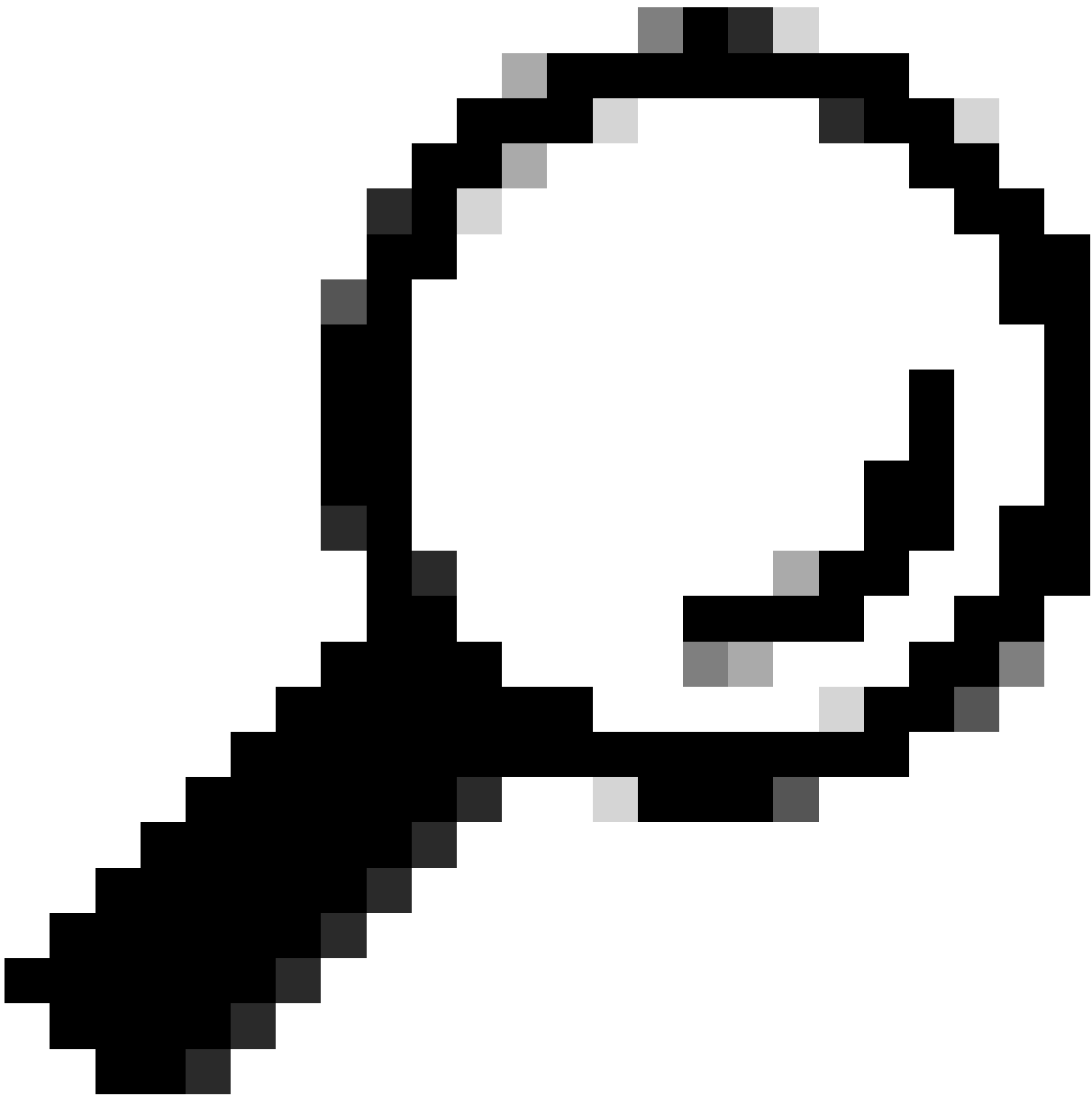


Caution: Discarding a Ticket undoes all configuration changes made on the ticket.

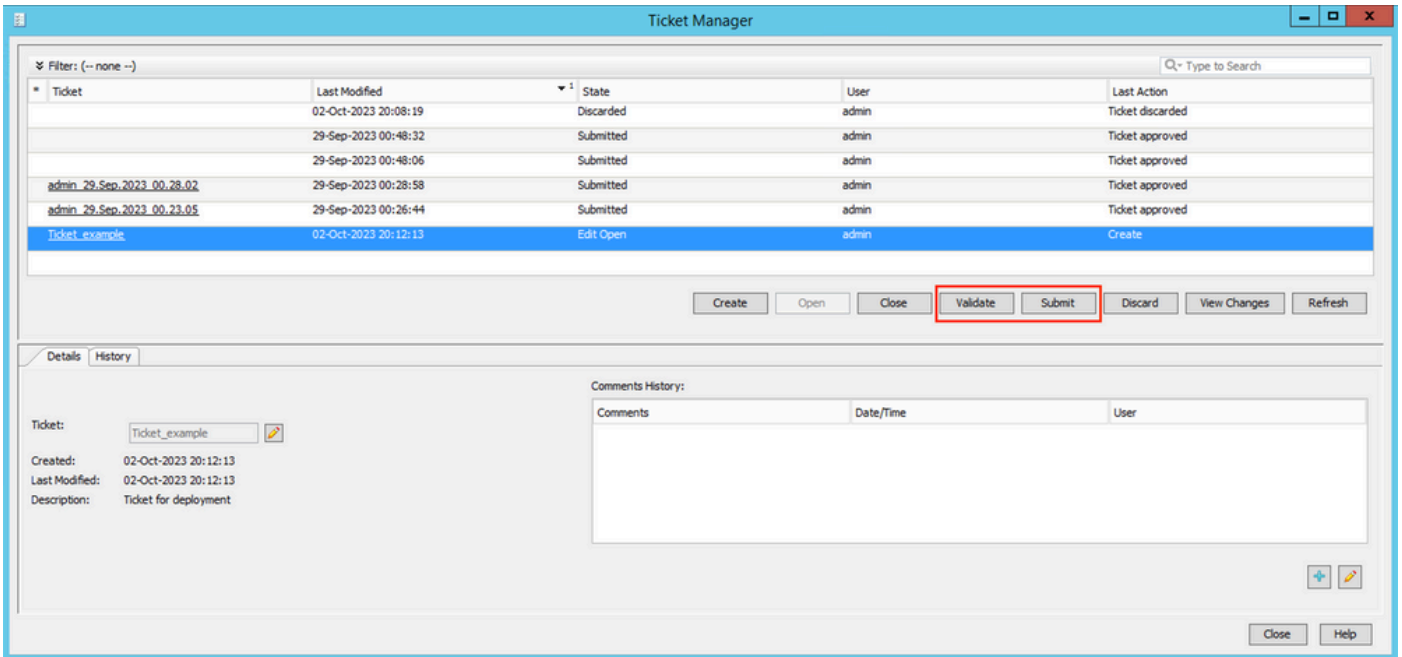
Step 5. Submit the ticket once configuration changes have been approved and validations have been done.

The screenshot shows the Cisco Security Manager Configuration Manager interface. The main window displays the configuration for a policy named "Access Rules (Unified)" assigned to "local device". The "Tickets" menu is open, and the "Submit Ticket..." option is highlighted with a red box. The table below shows the configuration details for five rules.

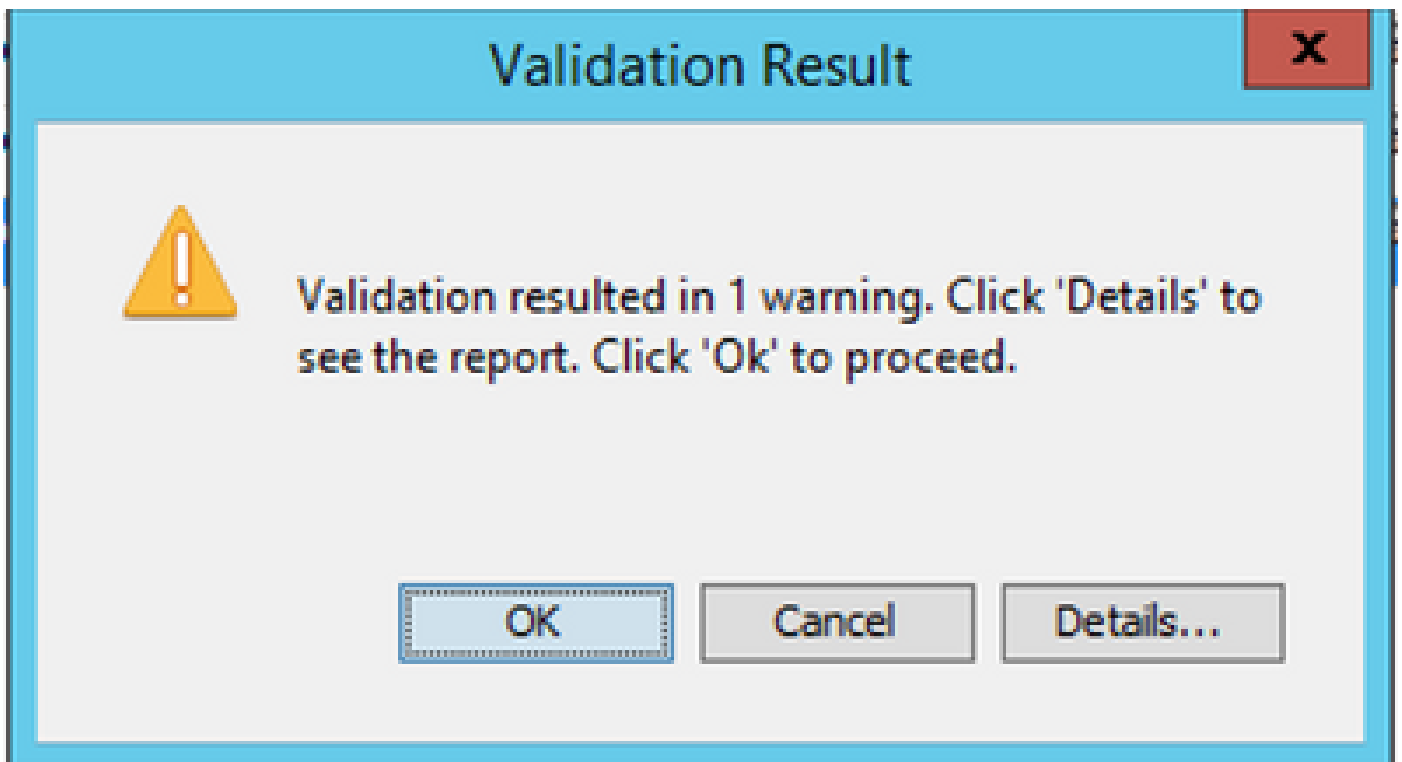
No.	Rule Name	Security Group	User	Destinations	Service	HitCount	LastHitTime	Interface	Dir.	Options
1	All-IPv4-Addresses	-- no tags --	-- no user --	DISCO	IP	0	Never	outside	out	
2	TESTNetwork	-- no tags --	-- no user --	All-IPv...	IP	0	Never	outside	in	
3	DISCO	-- no tags --	-- no user --	All-IPv...	TCP	0	Never	outside	in	
4	10.10.10.10	-- no tags --	-- no user --	All-Ad...	BGP	0	Never	inside	in	
5	DISCO	-- no tags --	-- no user --	FINANCE	HTTPS	0	Never	inside	in	



Tip: Validation and submission of tickets can also be done by the Ticket Manager.



Step 6. Click OK when validations have been reviewed.



Step 7. Submit ticket.

Submit Ticket

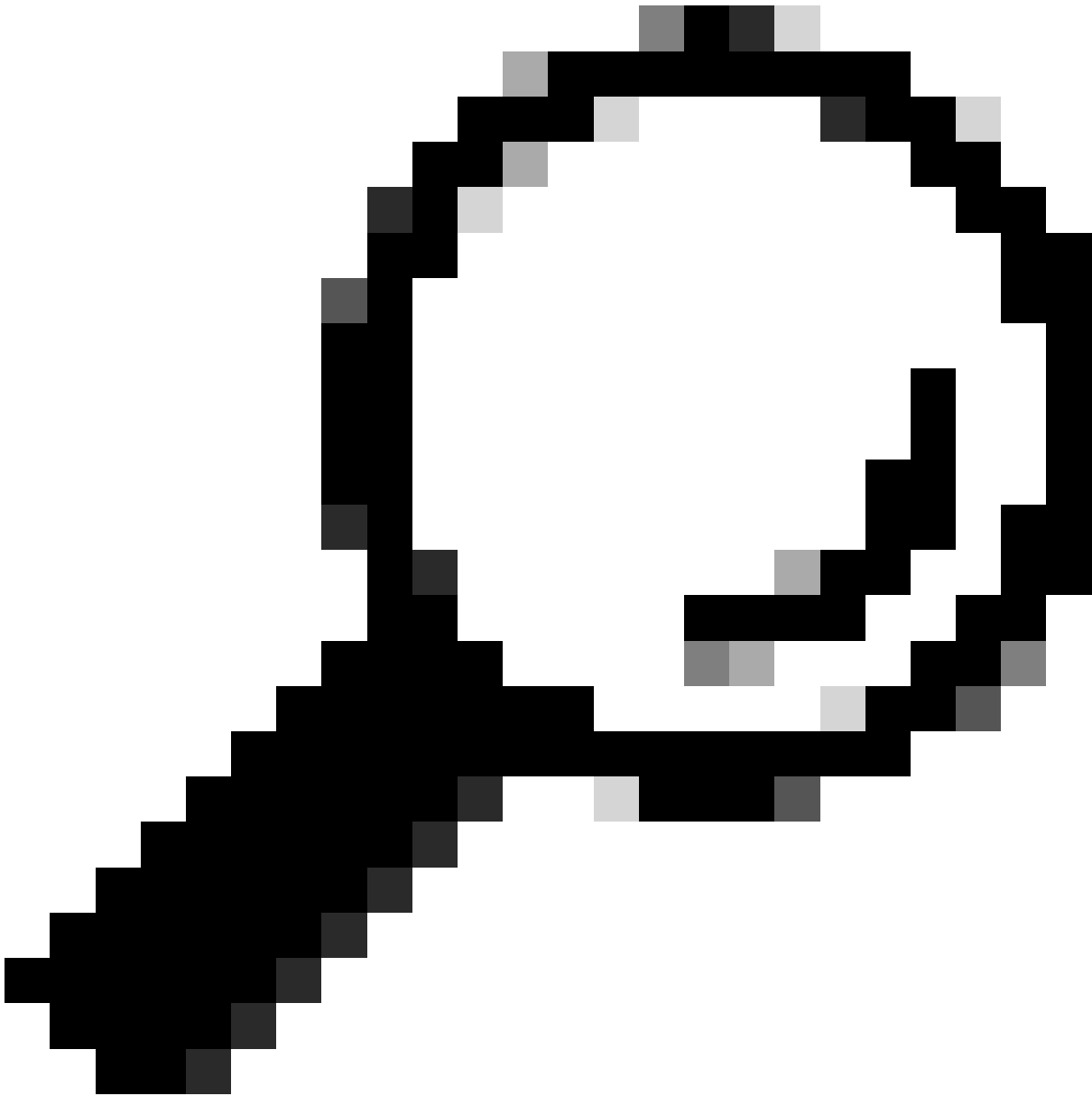


Comment:

OK

Cancel

Help

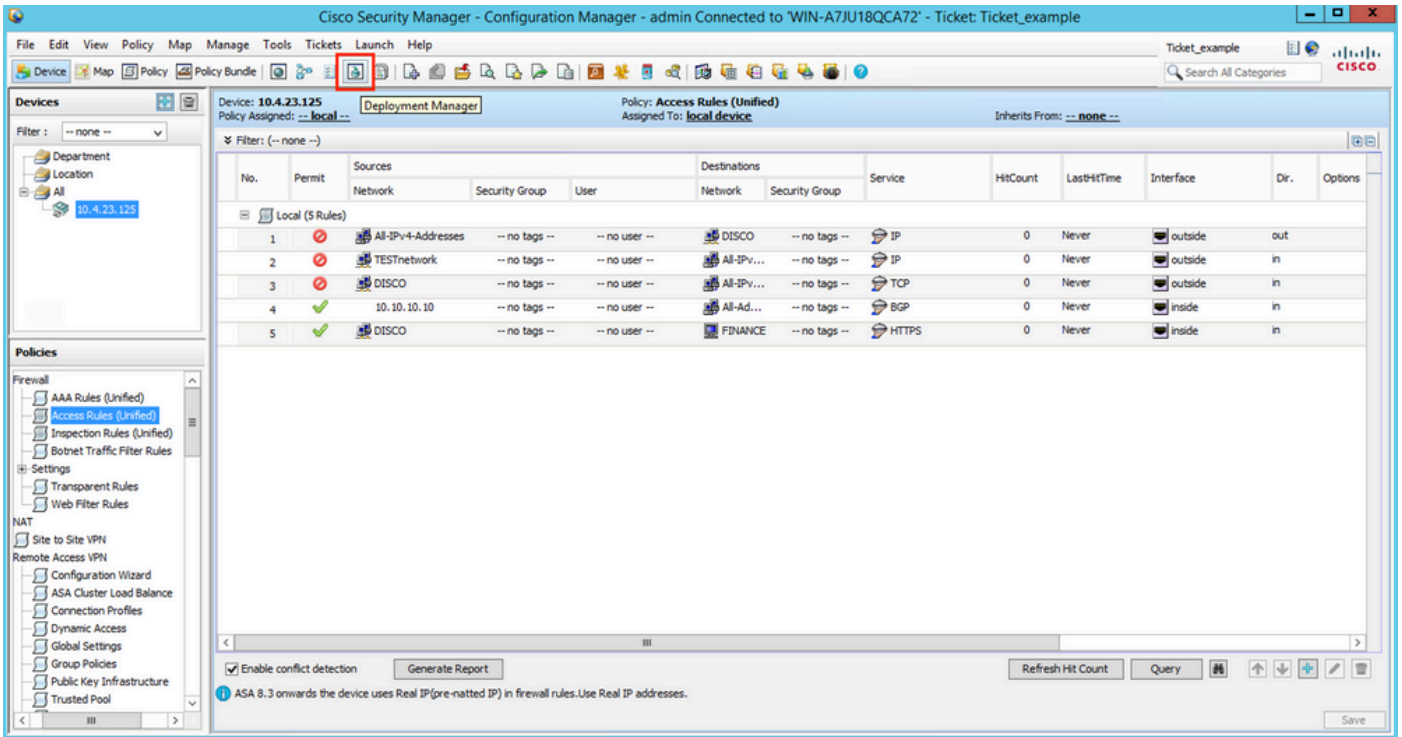


Tip: You can leave a comment when submitting a ticket.

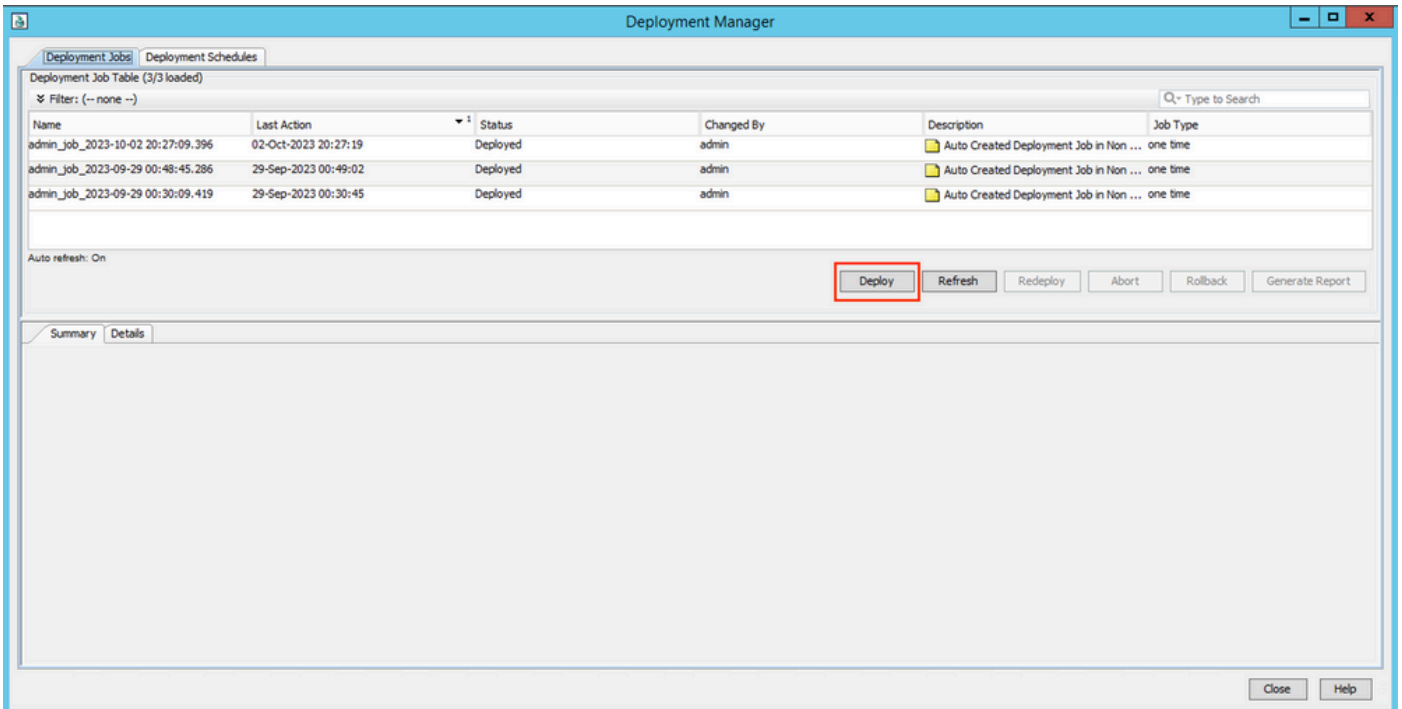
Step 8. Review the status of the ticket and ensure that it was successfully approved before proceeding with deployment.

Ticket	Last Modified	State	User	Last Action
Ticket example	02-Oct-2023 20:26:30	Submitted	admin	Ticket approved

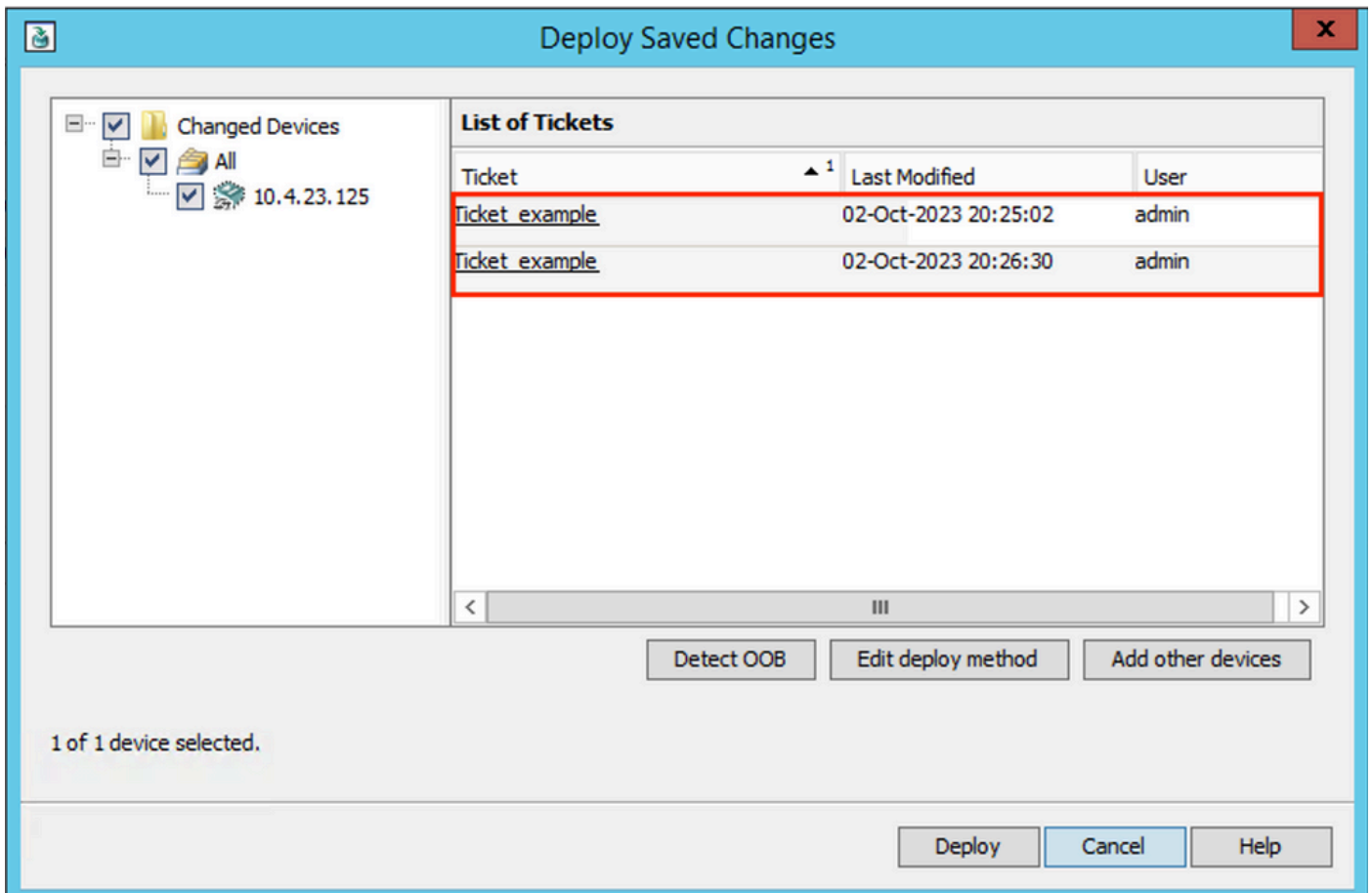
Step 9. Navigate to **Deployment Manager**.



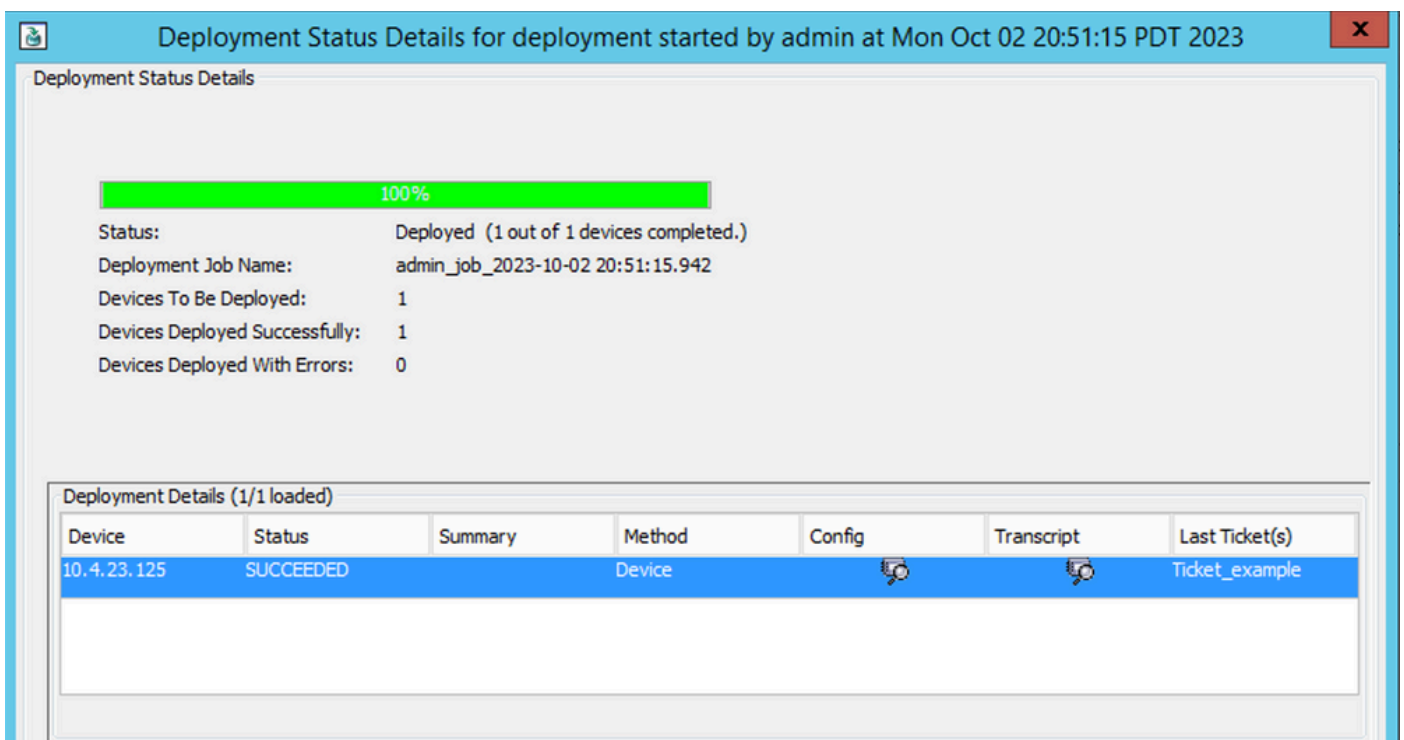
Step 10. Click **Deploy** when you are ready to push configuration changes.



Step 11. The deployment window shows Tickets to deploy and to what devices it is targeting. Once the information has been reviewed, click **Deploy**.



Step 12. Monitor deployment and review the final status.



Troubleshoot

In case the deployment fails, it can be useful to review the report of the deployment. You can generate it by clicking **Generate Report** when the deployment has finished.

Deployment Status Details for deployment started by admin at Wed Oct 04 01:05:09 PDT 2023

Deployment Status Details

100%

Status: Failed (1 out of 1 devices completed.)
 Deployment Job Name: admin_job_2023-10-04 01:05:09.404
 Devices To Be Deployed: 1
 Devices Deployed Successfully: 0
 Devices Deployed With Errors: 1

Deployment Details (1/1 loaded)

Device	Status	Summary	Method	Config	Transcript	Last Ticket(s)
Job Summary	Failed	✘ Error: 1				
10.4.23.125	FAILED; Uploading ...	✘ Error: 1	Device			admin_03.Oct.2023_2

Messages

Messages	Severity
Unable to Communicate with Device	✘
Deployment Log	i

Description

An error occurred during device communication via HTTPS. Device communication was performed using following URL: https://10.4.23.125/admin/config

Action

If this error occurred during deployment, please refer to the deployment transcript for details. If this error occurred during discovery, please check that you have selected correct OS Type for your device. Also select the System Context checkbox only if you are adding a multi mode PIX/FWSM/ASA devices system c

Generate Report Refresh Abort Close Help

Alternatively, you can navigate to **Deployment Manager**, choose the deployment, and click **Generate Report**.

Deployment Manager

Deployment Jobs Deployment Schedules

Deployment Job Table (6/6 loaded)

Filter: (-- none --)

Name	Last Action	Status	Changed By	Description	Job Type
admin_job_2023-10-04 01:05:09.404	04-Oct-2023 01:07:11	Failed	admin	Auto Created Deployment Job in Non ... one time	

Auto refresh: On

Deploy Refresh Redeploy Abort Rollback **Generate Report**

Summary Details

100%

Status: Failed (1 out of 1 devices completed.)
 Deployment Job Name: admin_job_2023-10-04 01:05:09.404
 Devices To Be Deployed: 1
 Devices Deployed Successfully: 0
 Devices Deployed With Errors: 1

Close Help