Table of Contents

Verify that passwords encrypted

The *service password-encryption* global configuration command directs the Cisco IOS software to encrypt the passwords, Challenge Handshake Authentication Protocol (CHAP) secrets, and similar data that are saved in its configuration file. Such encryption is useful in order to prevent casual observers from reading passwords, such as when they look at the screen over the muster of an administrator.

Below example helps in validating 'service password encryption' is enabled using NetYCE Compliance module

Example config

campus01-b02-access01 and *campus01-b02-access02* are the two reference devices which we are using for this example. One has password encryption configured and other does not.

Below command output gives us the information.

campus01-b02-access01#

```
campus01-b02-access01#show run | i password-encryption
no service password-encryption
```

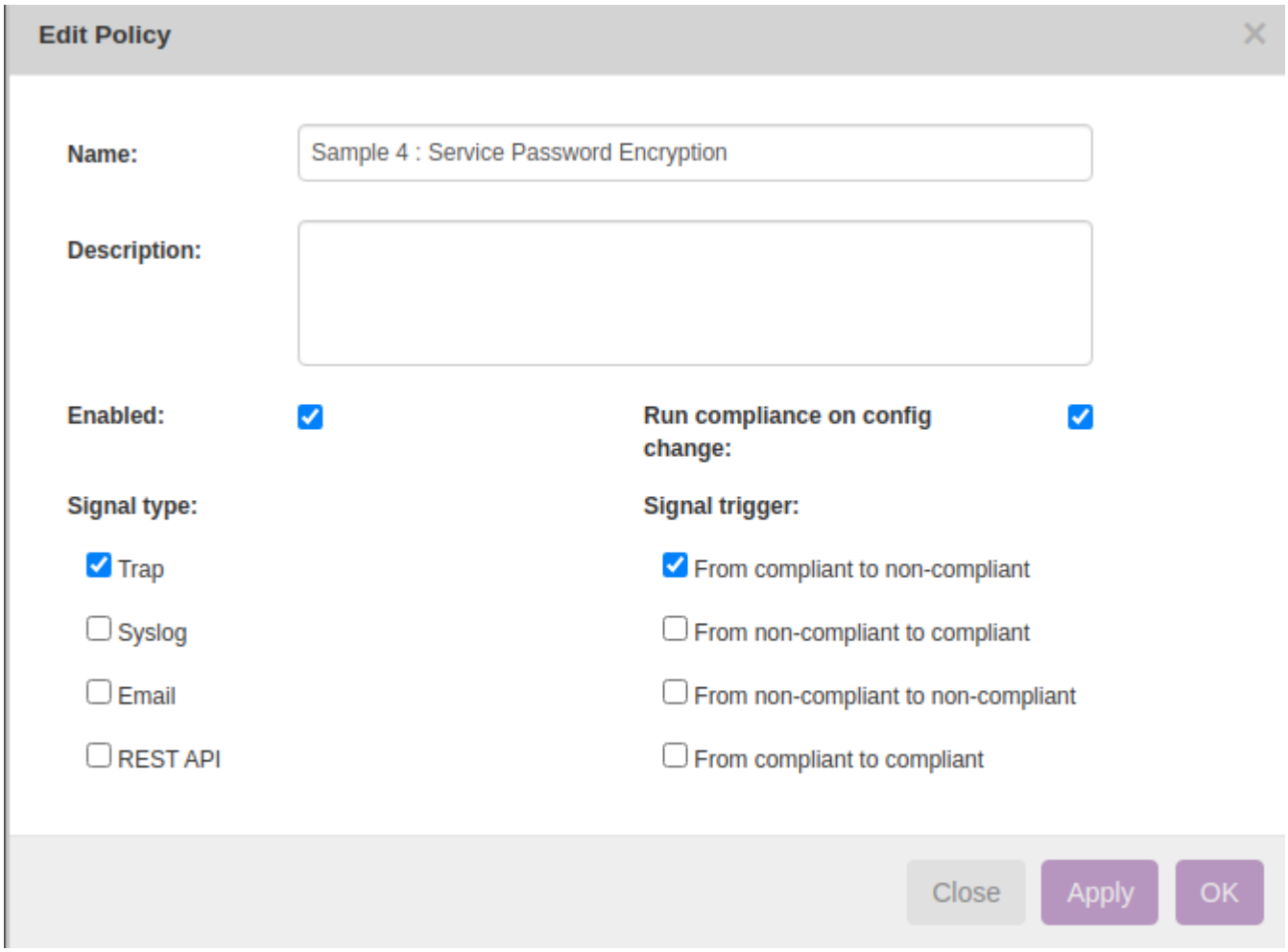
campus01-b02-access02#

```
campus01-b02-access02#show run | i password-encryption
service password-encryption
campus01-b02-access02#
```

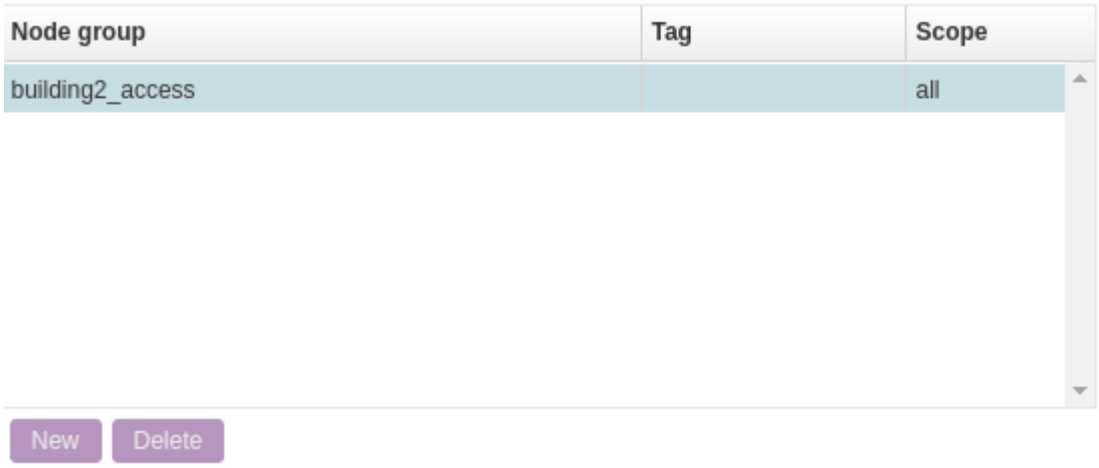
How its done

Below are the steps to create new policy.

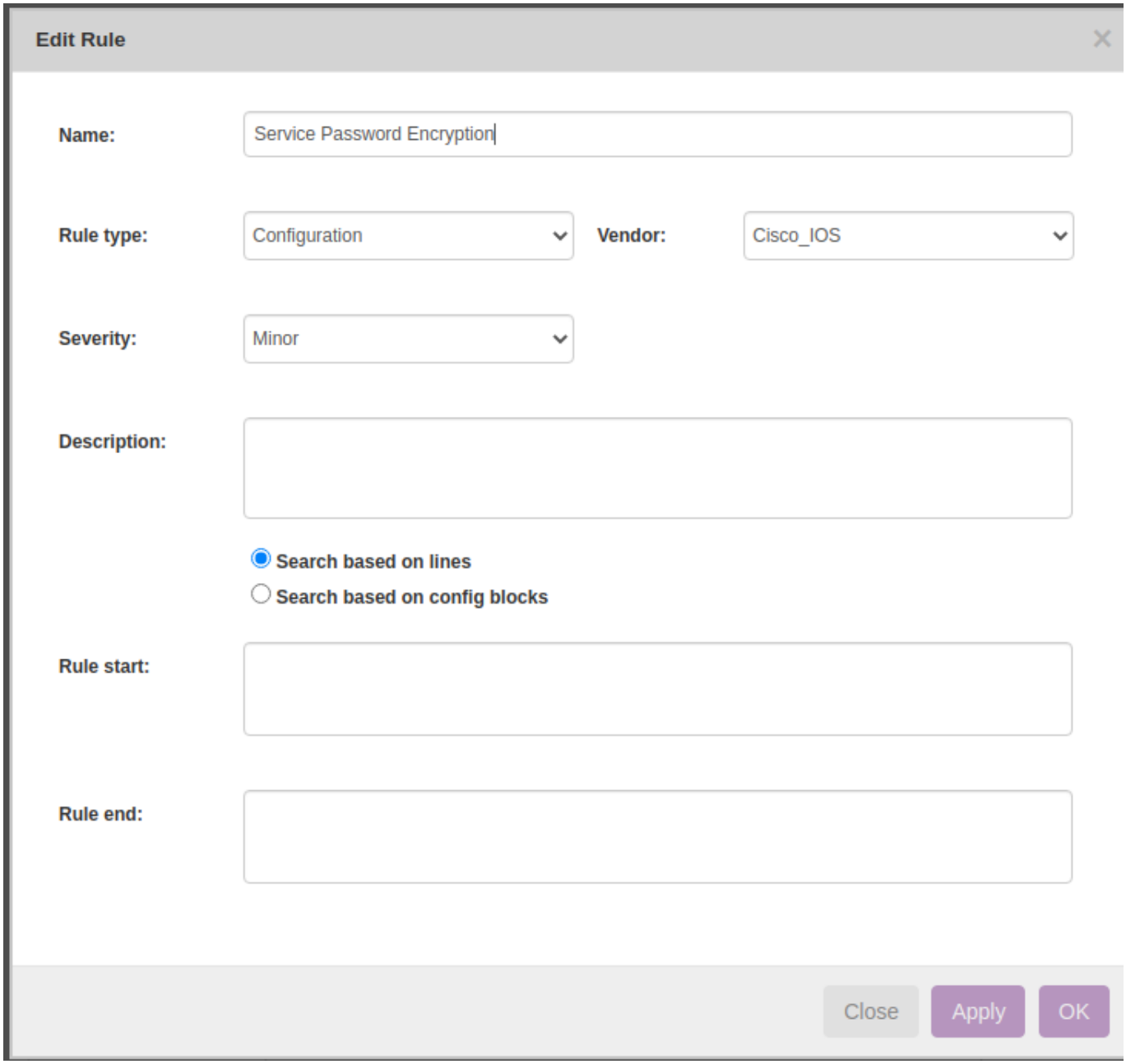
Operate → Compliance → Policies → New→

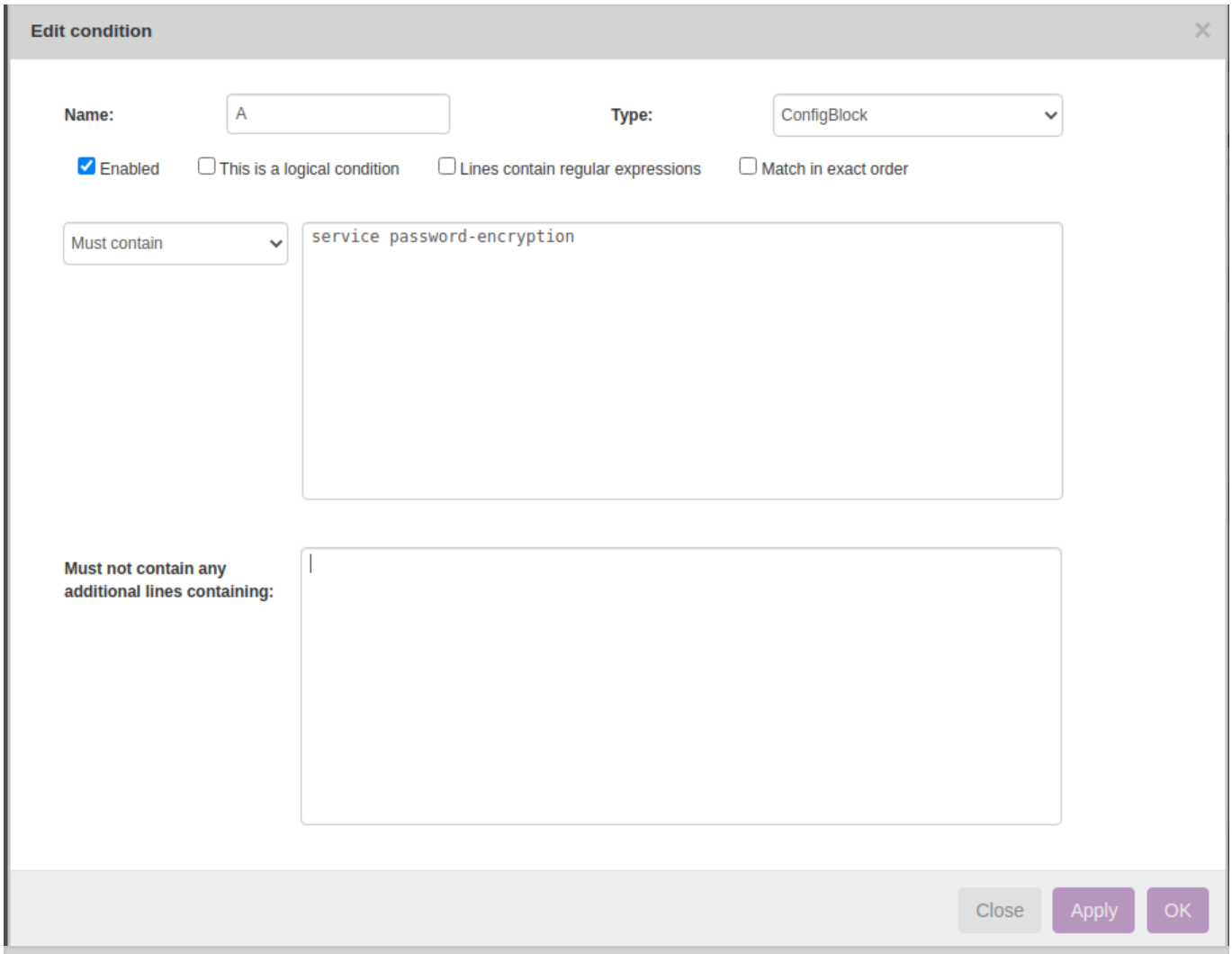


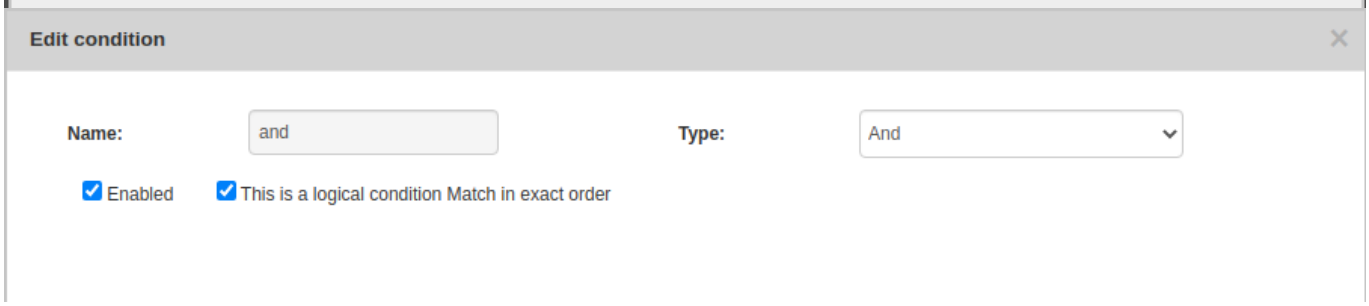
Click on the Node Group to select the relevant group of devices to add. Node group named “building2_access” holds the nodes of both the nodes:

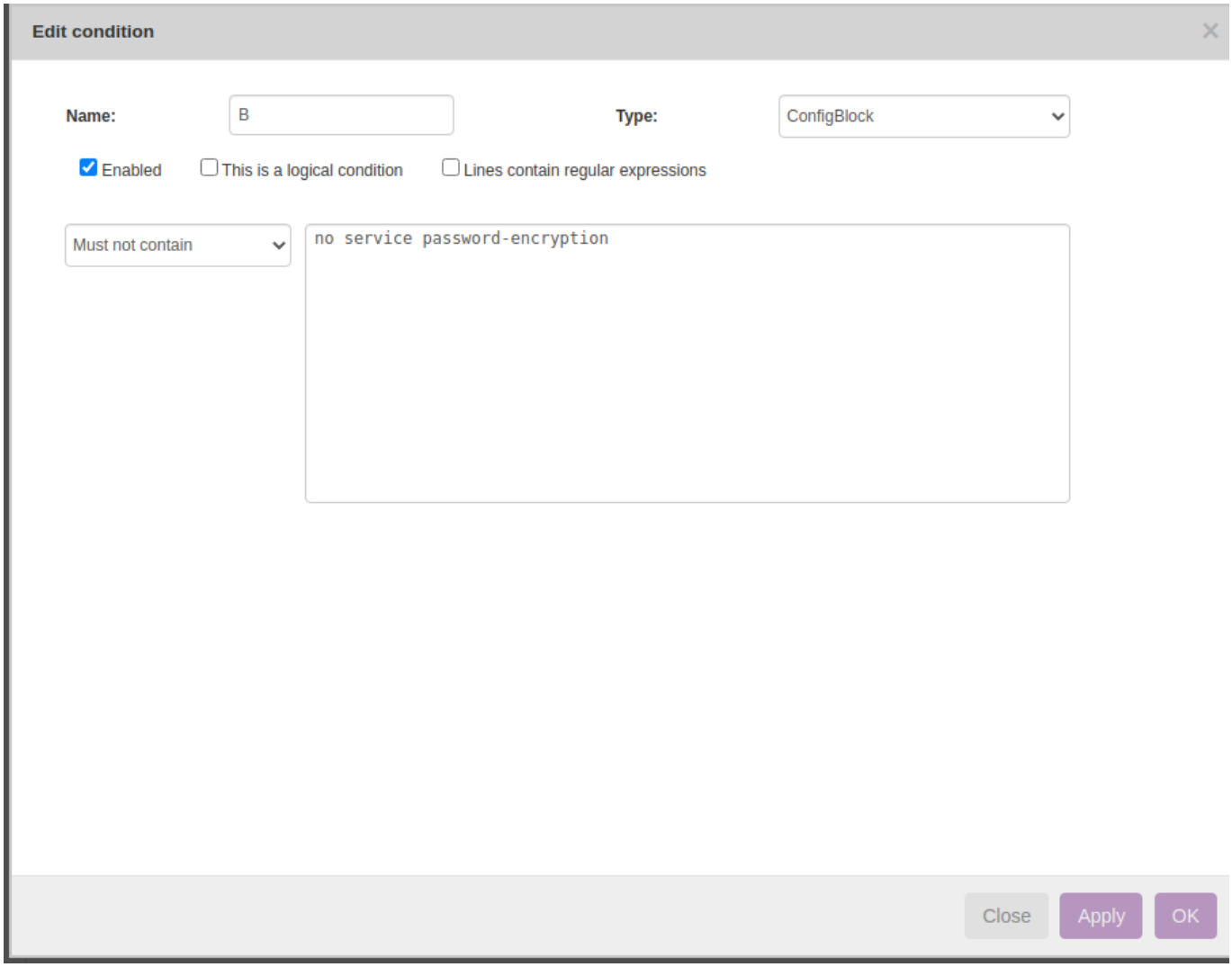


Rule → New


Edit Rule
Name:
Service Password Encryption
Rule type:
Configuration
Vendor:
Cisco_IOS
Severity:
Minor
Description:
Search based on lines
Search based on config blocks
Rule start:
Rule end:
Close
Apply
OK


Edit condition
Name:
A
Type:
ConfigBlock
Enabled
This is a logical condition
Lines contain regular expressions
Match in exact order
Must contain
service password-encryption
Must not contain any additional lines containing:
Close
Apply
OK

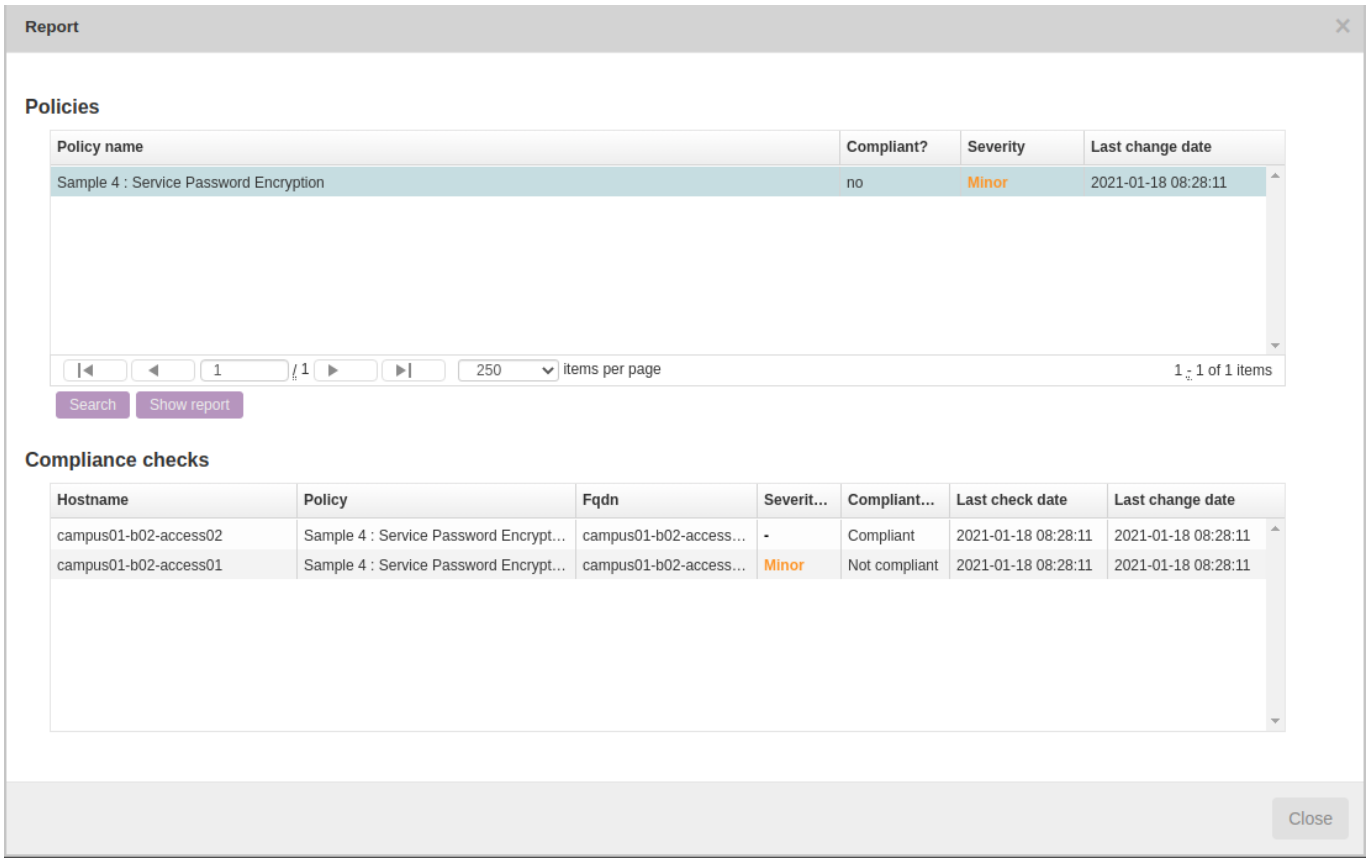

Edit condition
Name:
and
Type:
And
Enabled
This is a logical condition Match in exact order



Report/test results:

Below is how to create reports to see the results of the compliance policies.

Operate → Compliance → Reports → New → Report Name “test” → Report type “Policies” → Policy Name “Sample 4 : Service Password Encryption” → Show Report



This was a simple example to understand how to implement compliance policy to verify password encryption configuration.