



# NCM Configuration --- Configuration Document

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## Document Summary

|                  |                     |
|------------------|---------------------|
| Document Version | V 0.1               |
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| Motadata Version | 7.4.001             |
| Created By       | Shubham Singhal     |
| Approved By      | Pratik Patel        |
| Target Audience  | Motadata Team (All) |

# 1 [Introduction](#)

Motadata Network Configuration Manager (NCM) offers a simple, comprehensive and elegant solution for an easy Network Change and Configuration Management (NCCM). Network Configuration Manager can manage network devices such as switches, routers, firewalls, wireless access points, integrated access devices etc. from multiple vendors.

## 1.1 [What NCM Offers](#)

- Create and manage your network devices that stores the network configuration
- Keep a track of all the NCM monitors
- Automatic and manual backup of the device configurations on a regular interval
- Manage start up and running configurations
- Create a baseline backup to revert the configuration if required
- Revert back the NCM changes in case of failure
- Line by line comparison of backup and new configuration on devices
- Upgrade configuration on multiple devices at same time through Motadata
- Working in the NCM monitor using Motadata remote.
- Journal entry of each activity someone do on network devices

## 1.2 [Prerequisites](#)

- Plugins: SSH NCM Collector, Telnet NCM Collector
- NCM engine should be ON from the backend
- Monitor Discovery: NCM monitors should be discovered from admin section.
- NCM will discover only those SNMP devices that allow remote configuration
- In ncm-conf.yml (backend), provide your system IP.

## 2 Discover NCM Devices

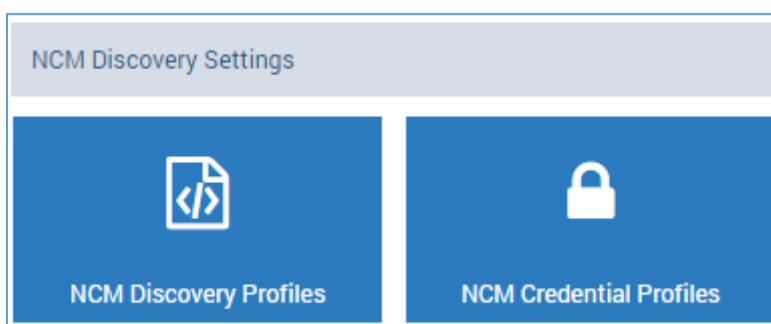
Motadata scans your network to identify all the NCM devices and monitor them in its system. The discovery of devices is a four step process.

**Create Credentials Profile:** Here you will provide the access details of the NCM devices that you want to monitor. Motadata will use these credentials for authentication and fetching data from devices.

**Create Discovery Profile:** Here you will provide the IP address and other parameters to identify the NCM devices in the network. When devices are found, Motadata will use credential profile to authenticate those devices.

**Run Device Discovery:** Here Motadata actually scans your network and identify all the NCM devices using discovery and credentials profile. As a result, it will show you all the devices found by Motadata.

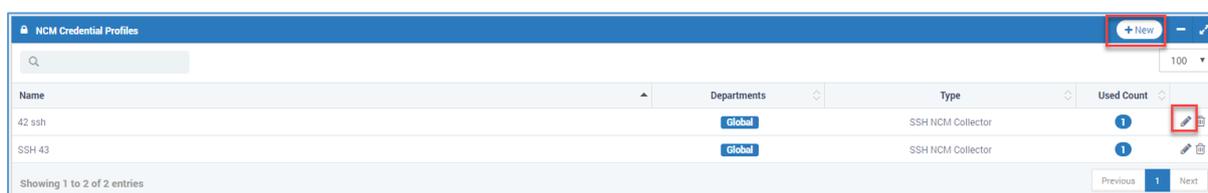
**Provision NCM Devices:** Here you select the devices that you want to manage using Motadata (from all the discovered devices). Motadata will take care of only the provisioned devices and ignore other non-useful devices.



We'll take the example of a Cisco switch and perform all available actions/operations on it.

### 2.1 Create NCM Credential Profile

The credential profile contains the security parameters to authenticate the access of Motadata to the device.



1. Go to Admin > (Under NCM Discovery Settings) > NCM Credential Profiles.
2. Click on **+New** button to create a new profile or click on the "edit" to edit the existing profile. A popup will show to fill the required details.
3. Fill the form.
4. Click on **Create** button.

**Note:** Please type the credentials by hand. DO NOT Copy Paste.

Create Credential Profile
✕

Name

Type

SSH NCM Collector

Username

Password

Enable User Name

Enable Password

Config Password

IP/HOST

RPE

Master RPE

Port

Test Credential

Departments

Global
✕
⌵

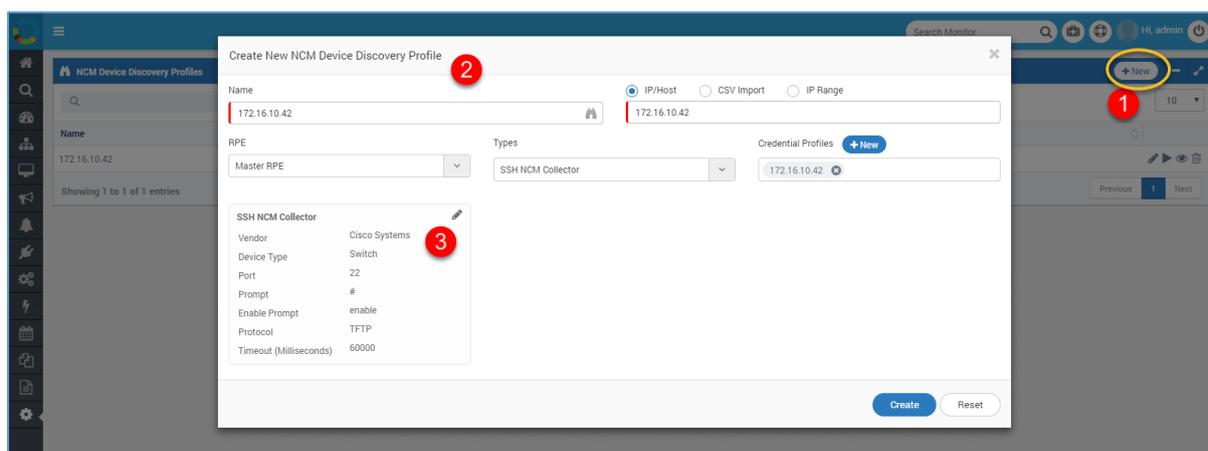
Create

Reset

| Fields                 | Description  |
|------------------------|--|
| <b>Name</b>            | Type a name to identify the credential profile. (e.g. SSH 42)                  |
| <b>Type</b>            | Select the type: SSH or Telnet (e.g. SSH)                                      |
| <b>Username</b>        | Type the username of the NCM device (e.g. cisco)                               |
| <b>Password</b>        | Type the password required for login. (e.g. cisco)                             |
| <b>Enable Username</b> | (If your device requires) Provide username for 'enable' command. (e.g. enable) |
| <b>Enable Password</b> | (If your device requires) Provide password for 'enable' command. (e.g. cisco)  |
| <b>Config Password</b> | (If your device requires) Provide config password. (e.g. leave blank)          |

|                         |  |
|-------------------------|--|
| <b>IP/HOST</b>          | Provide IP to test the credentials before creating the profile. (e.g. 172.16.10.42)  |
| <b>RPE</b>              | Select the RPE that should look into your device. (e.g. Master RPE)  |
| <b>Port</b>             | Select the port to test the device. (e.g. 22)  |
| <b>Test Credentials</b> | Click on this button to test. Motadata will use username and password (required to login into NCM Device using IP and port your provided for testing). |
| <b>Department</b>       | Select the department and people of that department can see/use this profile. (e.g. Global)  |

## 2.2 Create NCM Device Discovery



1. Go to NCM > Devices.
2. Click on the **+Device** button. A popup will open to create a new device discovery.
3. Provide the appropriate applicable details to discover an NCM device. The NCM device discovery option uses two methods: IP/HOST for single device, CSV Import for more than one devices and IP Range for a range of devices.

| Fields              | Description   |
|---------------------|---|
| <b>Name</b>         | The name is used to identify the discovery profile  |
| <b>IP Host</b>      | Type the IP of the device [E.g.: 172.16.10.42]  |
| <b>IP Range</b>     | Type the IP range for multiple devices  |
| <b>CSV Import**</b> | Import from CSV file  |
| <b>RPE</b>          | It is useful when system is deployed in distributed mode. Choose the RPE from which you want to discover and poll monitors. By default, 'Master RPE' is selected. |

|                             |  |
|-----------------------------|--|
| <b>Types</b>                | Shows the list of NCM types supported in system. Currently 2 NCM types are supported: Telnet and SSH (e.g. SSH)  |
| <b>Credential Profiles</b>  | Select the credential profiles created in previous section. If not created, then create from here. See previous section for steps of creating a credential profile. (e.g. Select the credential profile: SSH 42) |
| <b>Collector Parameters</b> | Define the NCM collector settings. These settings are used to gain access of NCM terminal.   |

### SSH NCM Collector Discovery Parameter Details ✕

|  |   |
|--|---|
| Vendor<br><input style="width: 90%;" type="text" value="Cisco Systems"/> | Device Type<br><input style="width: 90%;" type="text" value="Switch"/>  |
| Port<br><input style="border: 1px solid red;" type="text" value="22"/>   | Prompt<br><input style="border: 1px solid red;" type="text" value="#"/> |
| Enable Prompt<br><input type="text" value="enable"/>                     | Protocol<br><input type="text" value="TFTP"/>                           |
| Timeout (Milliseconds)<br><input type="text" value="60000"/>             |   |

| Field Name           | Description   |
|----------------------|---|
| <b>Vendor</b>        | Provide the name of the NCM device vendor (e.g. Cisco)  |
| <b>Device Type</b>   | Select the type of device: <ul style="list-style-type: none"> <li>Router</li> <li>Switch</li> <li>Firewall</li> <li>D Link</li> <li>Cisco Switch</li> <li>New Switch (e.g. Switch)</li> </ul> |
| <b>Port</b>          | Provide the port address of the NCM device (e.g. 22)  |
| <b>Prompt</b>        | Provide the type of prompt. It is generally either: '#' or '>' (e.g. #)   |
| <b>Enable Prompt</b> | Provide the keyword to enable the prompt (e.g. enable)  |

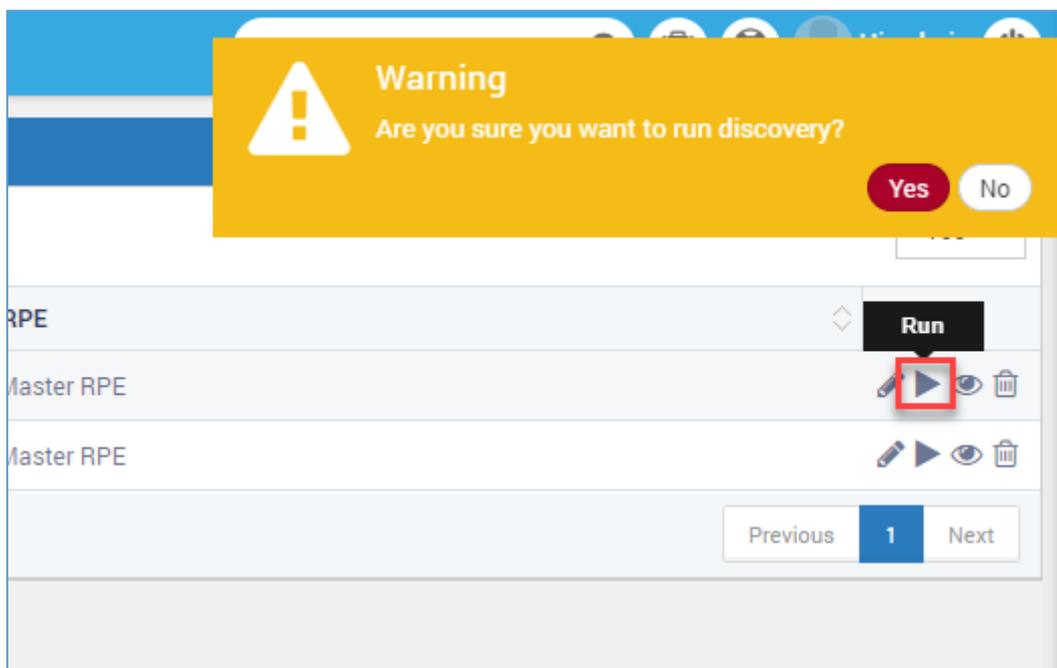
|                               |  |
|-------------------------------|--|
| <b>Protocol</b>               | Select the communication protocol to communicate with device (e.g. TFTP) |
| <b>Timeout (Milliseconds)</b> | Select the numeric value for timeout. Default: 60000 MS                  |

Once you complete creating the profile, Motadata will ask you if you want to run a discovery.

## 2.3 [Run Discovery Profile](#)

Run the discovery profile to find all the NCM monitors based on the settings we created. To run a discovery profile:

1. Go to Admin > NCM Discovery Profiles.
2. On the right hand side of profile, click run. A dialog box will appear for confirmation, Select 'Yes'.



✕
Discovery Status

NCM Discovery Progress

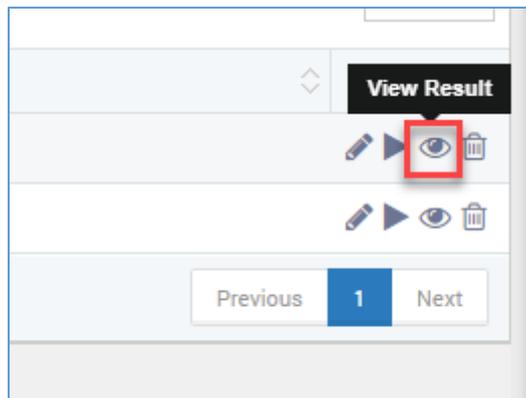
100%

Initiating discovery...

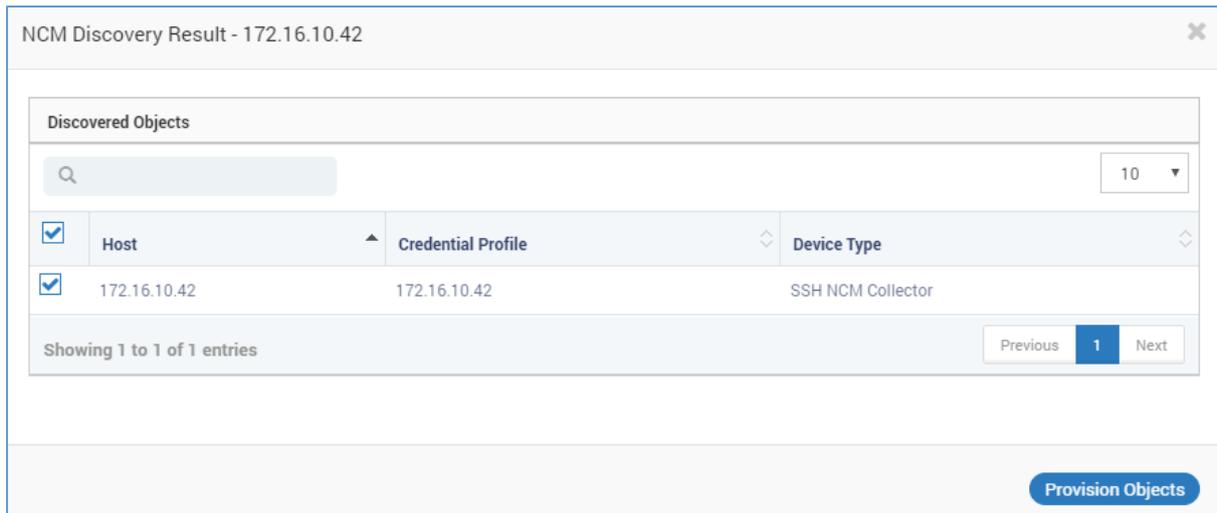
✓ Success Device 172.16.10.42 discovered using [172.16.10.42] successfully... ✕

View Result

Click on 'View Result' to see all the discovered monitors. You can select the monitors from the list that you want to provision.

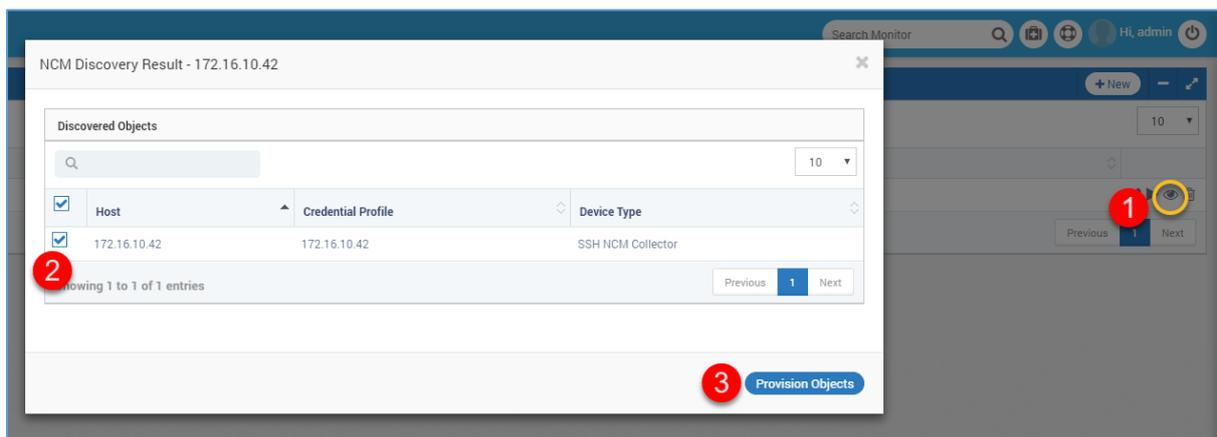


The screenshot shows a table with a 'View Result' button and an eye icon highlighted with a red box. Below the table, there are navigation buttons: 'Previous', '1', and 'Next'.

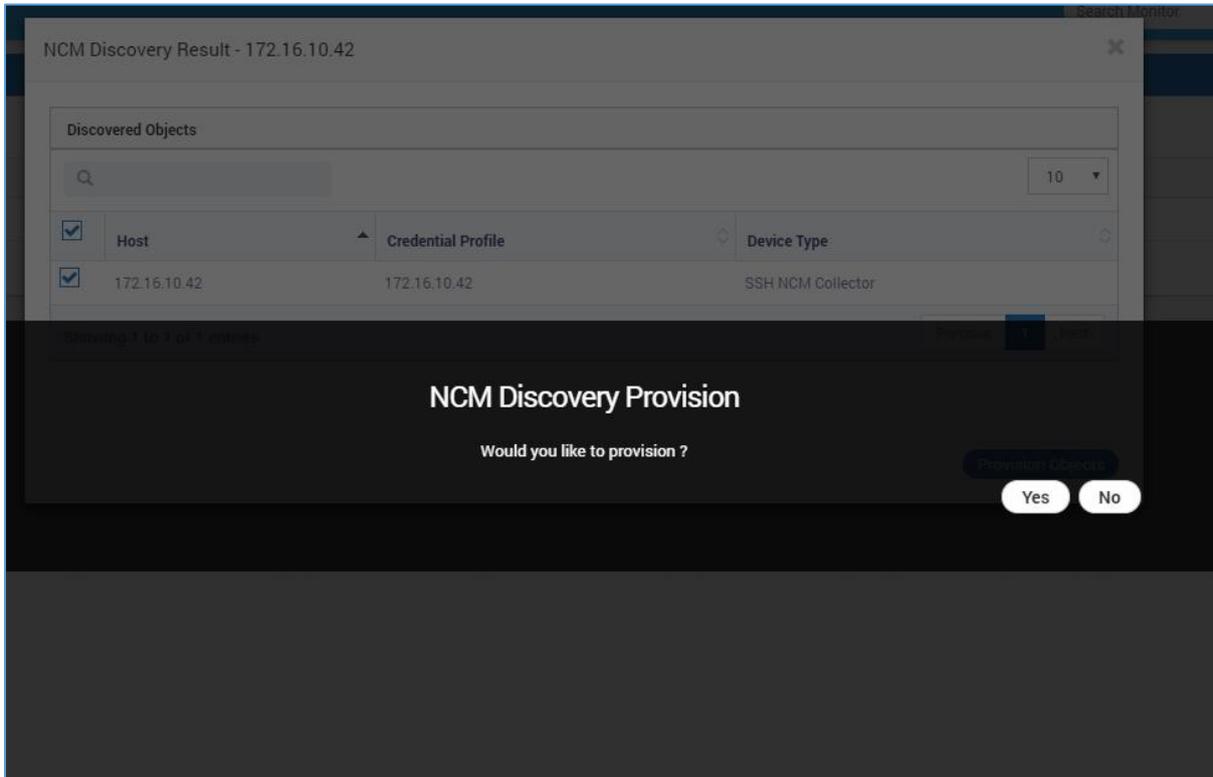


## 2.4 Device Provision

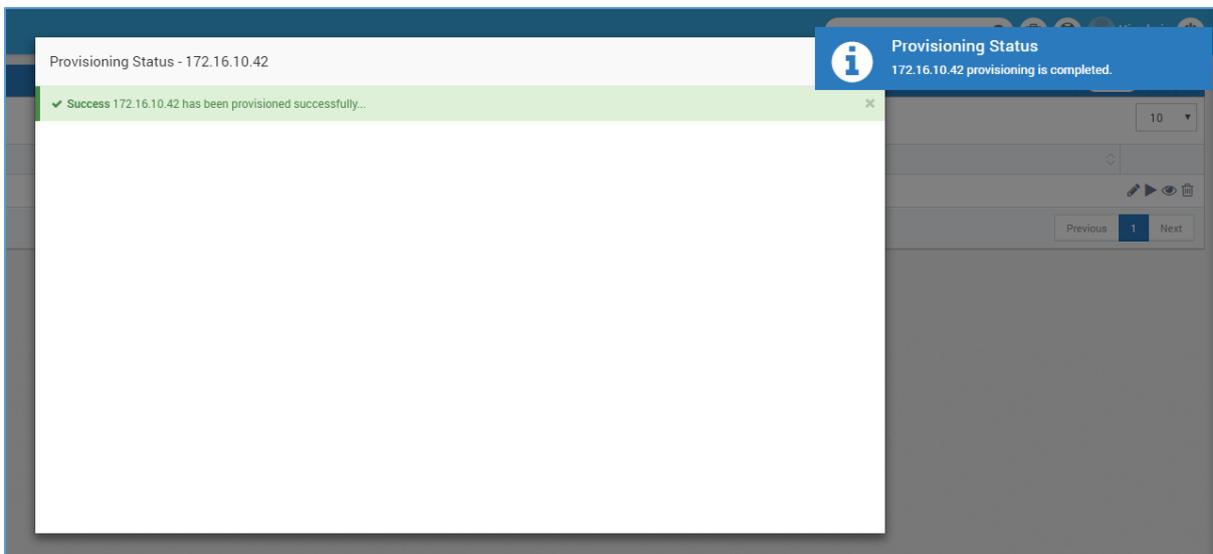
- Select the monitors you want to provision. Provisioning means Motadata will start polling the monitors to gather information. Provisioning a monitor consumes 1 unit of license.



- Click Provision Objects.
- System will ask you for confirmation. Select Yes



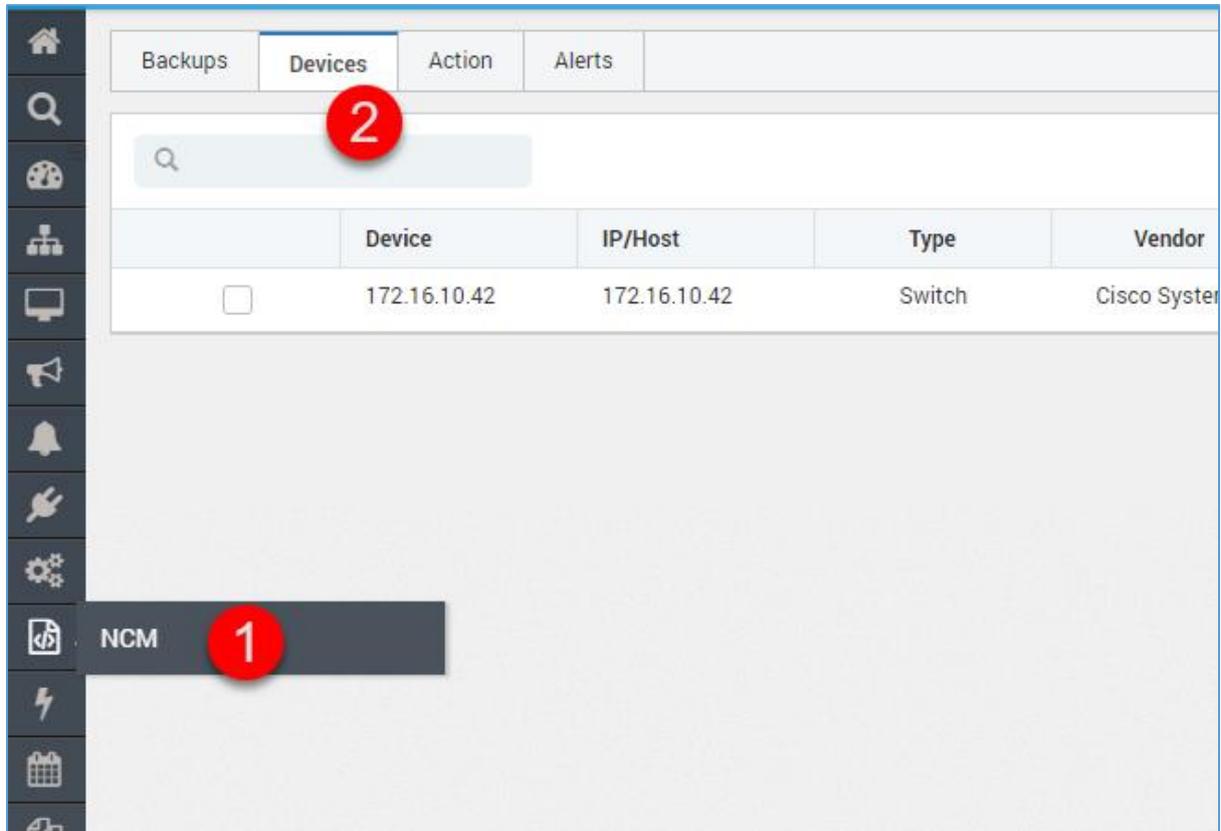
Your devices are provisioned successfully.



All your provisioned devices are available in the NCM menu.

### 3 [NCM Devices](#)

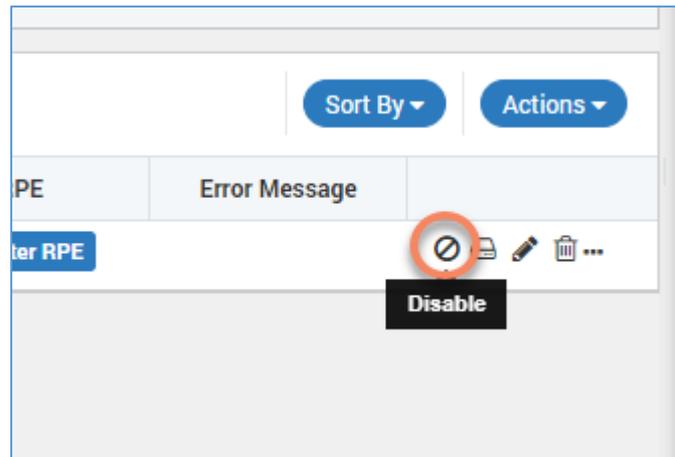
You will see all the provisioned NCM devices in NCM menu. To see devices go to **NCM > Devices** tab:



#### 3.1 [Edit NCM Device](#)

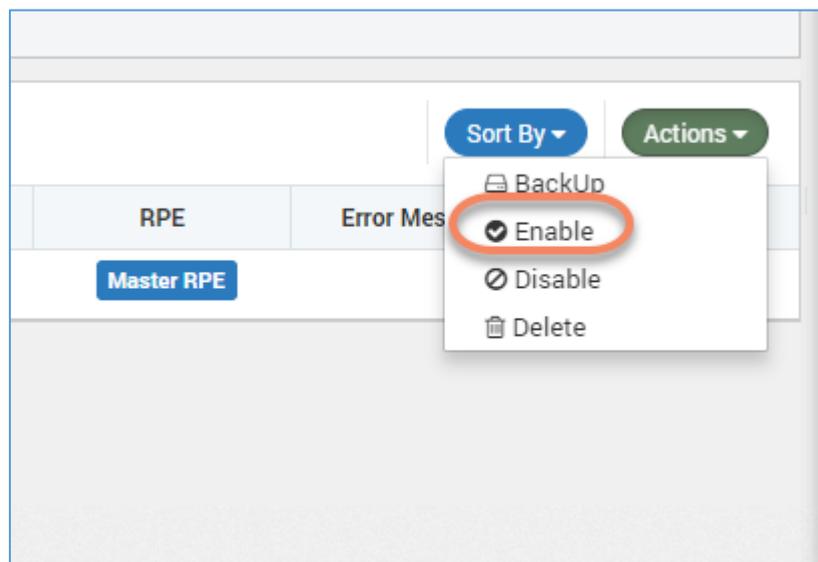
Edit button is available as an individual action to change the SNMP device details. The option is available in right side of NCM device list.





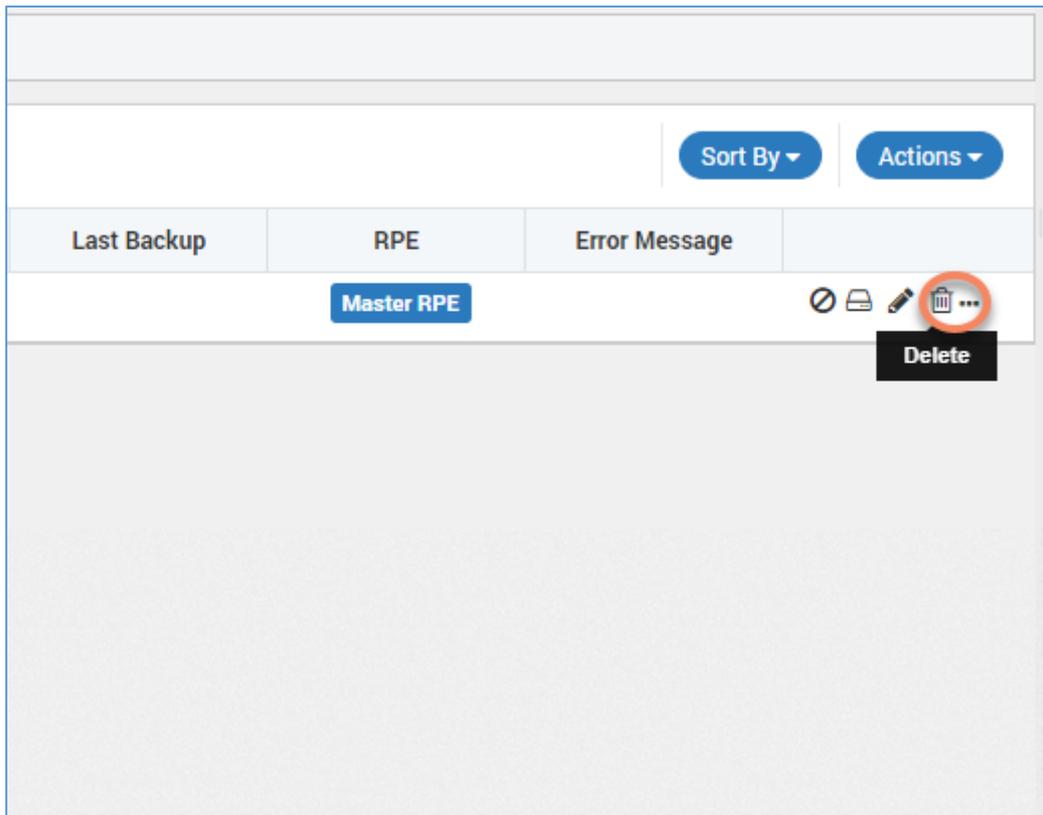
### 3.3 [Enable NCM Device](#)

You can enable the disabled NCM devices using enable button. You can enable device or multiple devices also. To enable multiple devices, first tick checkbox of devices and then enable from **Action** menu.



### 3.4 [Delete NCM Device](#)

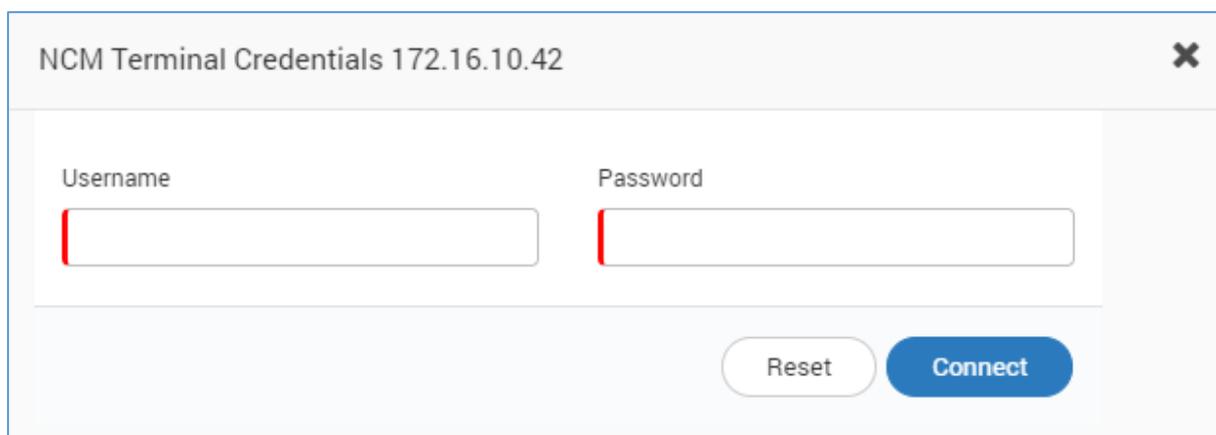
You can delete the NCM devices using delete button. The devices once deleted cannot be restored. You require to add a new device. You can delete one device or multiple devices also.



### 3.5 [Open Terminal](#)

You can connect to the NCM device's terminal from Motadata GUI and run the commands directly. This will remove the dependency of third-party tools to connect with your NCM device. The terminal has following properties:

- You need valid credentials to access the NCM device.
- When you refresh the page or close the terminal, the connection with NCM device is closed.
- There is no difference between using GUI based terminal and running the command directly on the NCM machine.

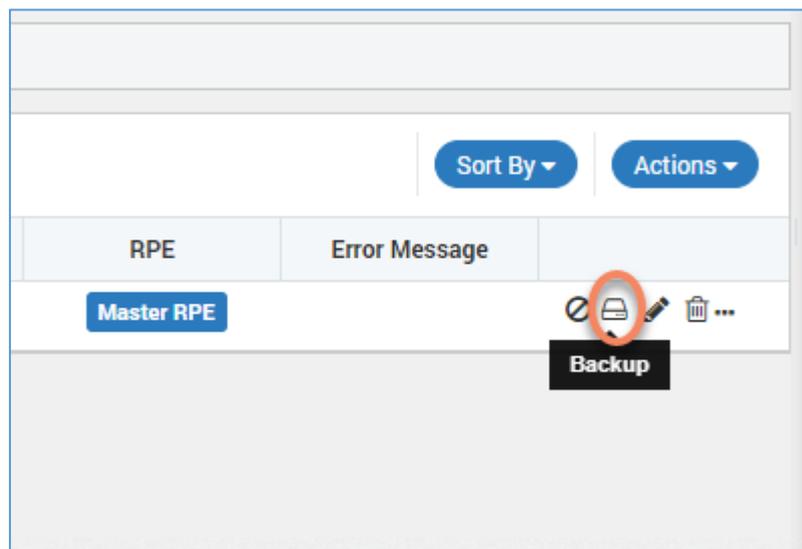


|          |                                 |
|----------|---------------------------------|
| Username | Username to access the terminal |
| Password | Password to access the terminal |

## 4 Backup NCM Devices

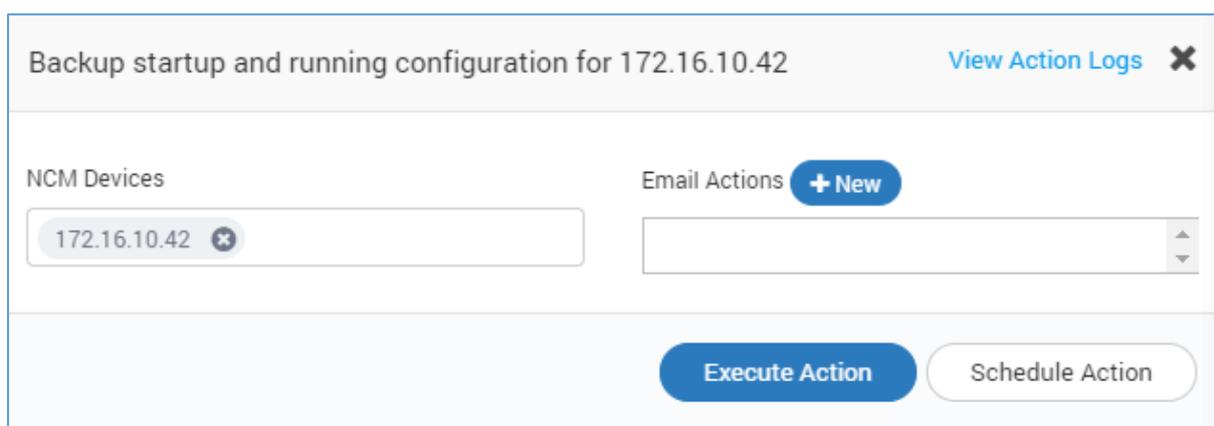
After adding devices, the first operation that should be performed is backing up the device configuration. You can create backup of devices using backup button. You can take backup of an individual monitor or a group of monitors. Select the devices for which you want to create a backup and select 'Backup' from 'Action' menu.

**Note that** during backup if the configuration settings in device is exactly same as the last backup, motadata will not create another backup. It will simply update the timestamp of existing backup. But if the configuration do not match with the backup, motadata will create a new version of backup.



### 4.1 Take Manual Backup

You'll see a menu to configure the backup schedule.



Select the NCM device and choose either of two options: **Execute Action** or **Schedule Action**

- **Execute Action:** Click the Execute Action button to run the backup instantaneously.
- **Schedule Action:** Click the Schedule Action button to schedule the backups.

Backup startup and running configuration for 172.16.10.42
[View Action Logs](#) ✕

---

Scheduler Name ◇
Email Actions ▲
◇

No data available in table

Showing 0 to 0 of 0 entries

Previous

Next

---

Scheduler Name

Scheduler Date

📅

Run Job At

▼

✕ Off Repeat this job

Save

Reset

Cancel

- Provide the name of the scheduler.
- Select time of the schedule.
- For scheduling job at specific time, turn on 'Repeat this job' and configure the repeat schedule.

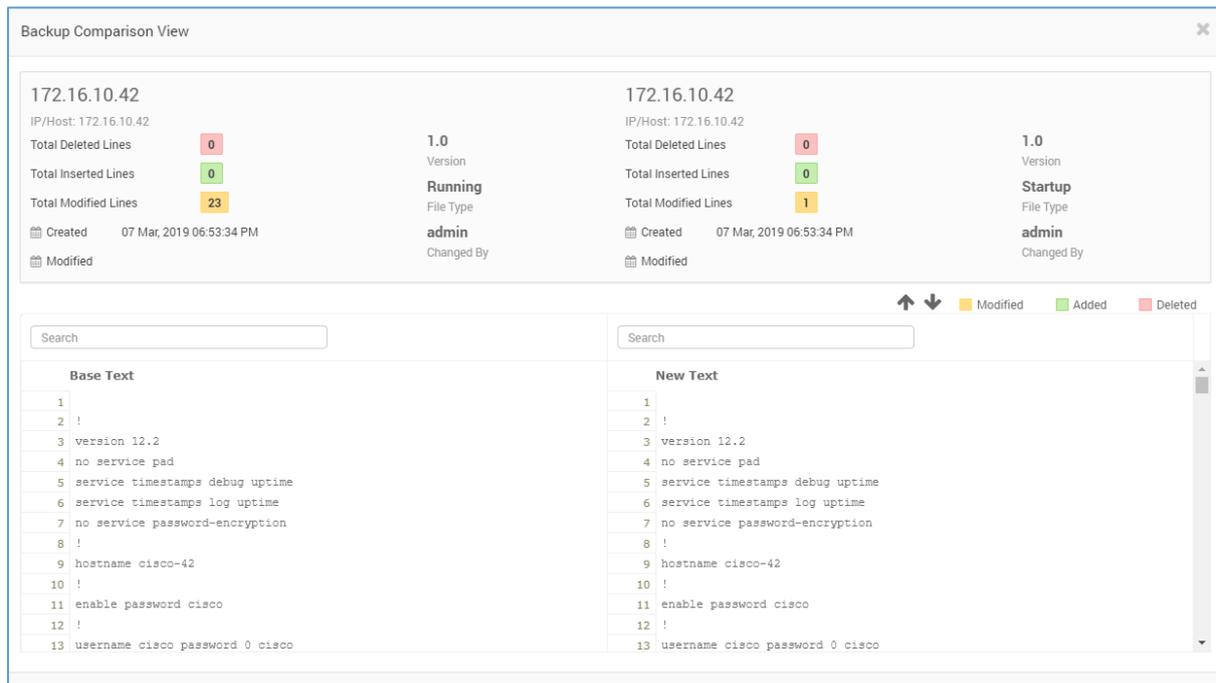
## 4.2 Compare backup

When you are taking backup of device, two backups are generated for each device. The backups are visible in Backup tab under NCM menu.

| Device       | IP/Host      | File Type | Version | Backup Time              |
|--------------|--------------|-----------|---------|--------------------------|
| 172.16.10.42 | 172.16.10.42 | Running   | 1.0     | 07 Mar, 2019 06:53:34 PM |
| 172.16.10.42 | 172.16.10.42 | Startup   | 1.0     | 07 Mar, 2019 06:53:34 PM |

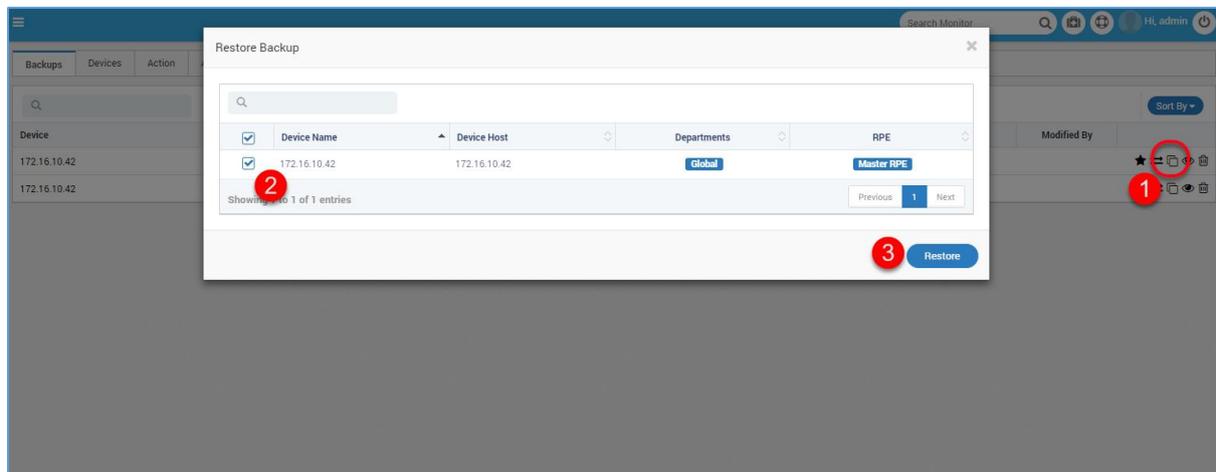
The configuration difference is depicted side-by-side showing the changed lines in yellow, added lines in green and deleted lines in red. Configurations are versioned and stored in the database and the Network Configuration Manager GUI provides

option to select and view any particular configuration version. From the historical information, administrators can choose any to configuration versions and compare.



### 4.3 Restore Backup

Click on the restore backup to restore the backup from baseline backup. System will show a popup with all the NCM devices available in the system. Select the devices on which you want to restore the backup.



### 4.4 View Backup

Click on the view backup to see the backup files.

Backup - 172.16.10.43 - 1.0
✕

```

!
version 12.2
no service pad
service timestamps debug uptime
service timestamps log datetime localtime
no service password-encryption
service sequence-numbers
!
hostname MSPL_SWT_002
!
boot-start-marker
boot-end-marker
!
logging buffered 10000
enable secret 5 $1$dF9G$bwQbTTllrpWa4On1e5jjx0
enable password Mind@#123
!
username admin password 0 Mind@12
username viral privilege 3 password 0 viral123
no aaa new-model
clock timezone IST 5 30
system mtu routing 1500
ip subnet-zero
!
no ip domain-lookup
ip name-server 192.168.1.2
ip name-server 192.168.1.1
ip sla responder

```

## 4.5 [Delete Backup](#)

Select the delete button to delete the backup. This will permanently remove the entry from the system.

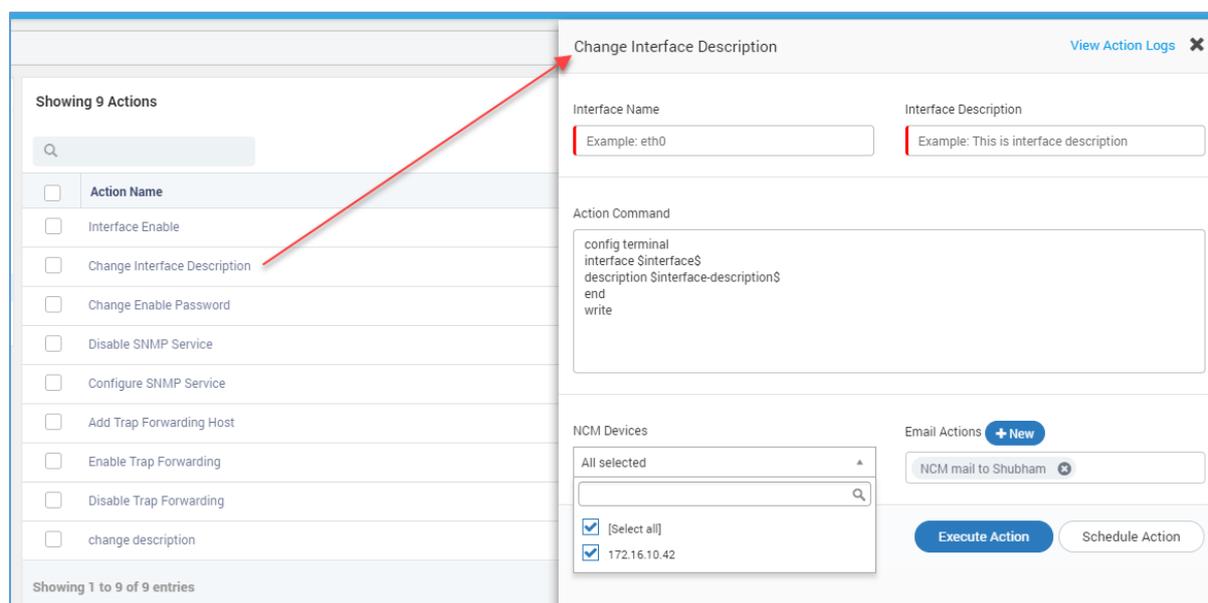
## 5 NCM Configuration Actions

Actions in the NCM devices are nothing but the set of commands by which you update their configuration. For cisco devices, Motadata gives you some common commands that you can directly use and run in devices. For other devices, you can either create a new action (set of commands) or import from outside.

**Important!!** A wrong action/command can lead to the network failure. Please use this menu under expert supervision only.

### 5.1 Execute Action on NCM Device

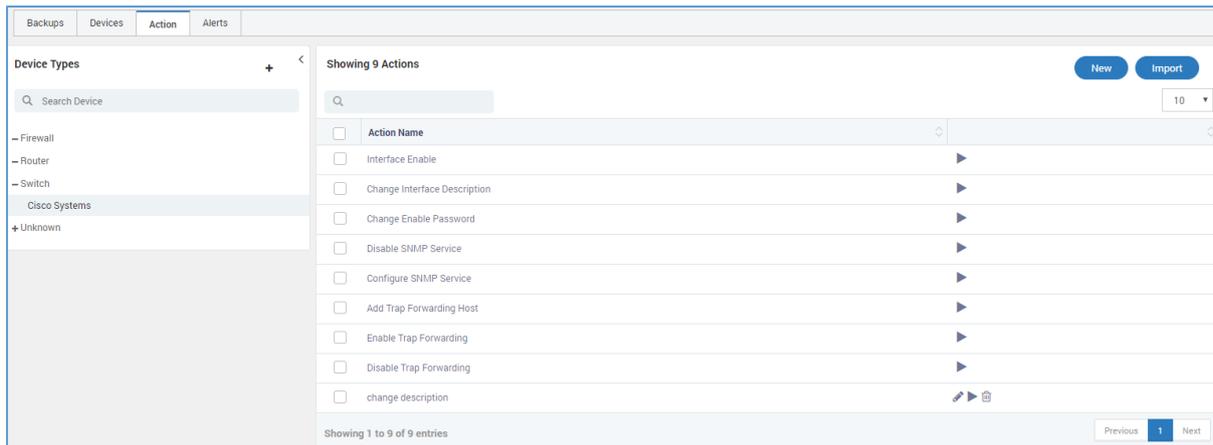
1. Click on the **play** button to run an action. A slider will open with all the list of commands to execute the action.
2. Change the commands/values as required.



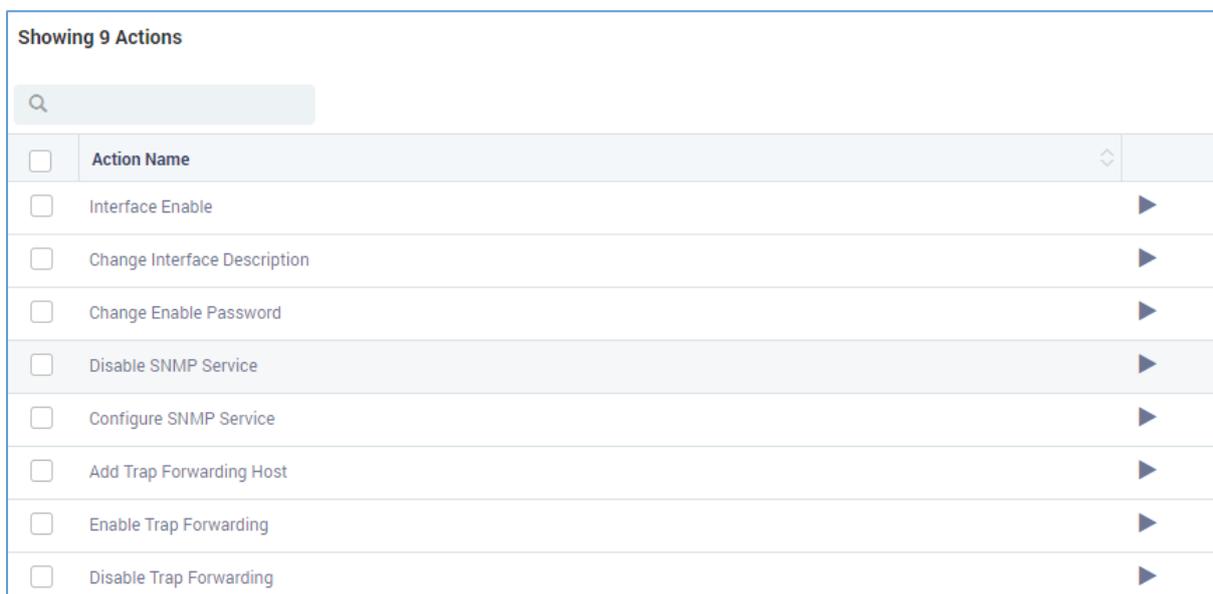
3. Select the NCM devices on which the command should be executed.
4. Click on Execute Action or Schedule Action
  - Execute Action: Click the Execute Action button to run the backup instantaneously.
  - Schedule Action: Click the Schedule Action button to schedule the backups.

### 5.2 Benefits of this Feature

- You don't need to login into each device and do any action.
- All your action commands are safe and secured in Motadata.
- You can change configuration of more than one devices in single go.
- Motadata automatically takes a backup before and after doing any action.
- Simple hierarchical structure to store and manage your actions.



## 5.3 [Default Actions](#)



Motadata gives you some actions as default for the cisco switch. You'll need to put only necessary configuration values to change the configuration.

## 5.4 [New Actions](#)

Click on the 'New' button to create a new action. A popup will open for you to fill details. Upon completion, the action will be visible in actions list of selected device type.

Create Action
✕

---

Action Name

Change Description
⚡

---

Action Command

```
config terminal
interface $interface$
description $interface-description$
end
write
```

---

Description

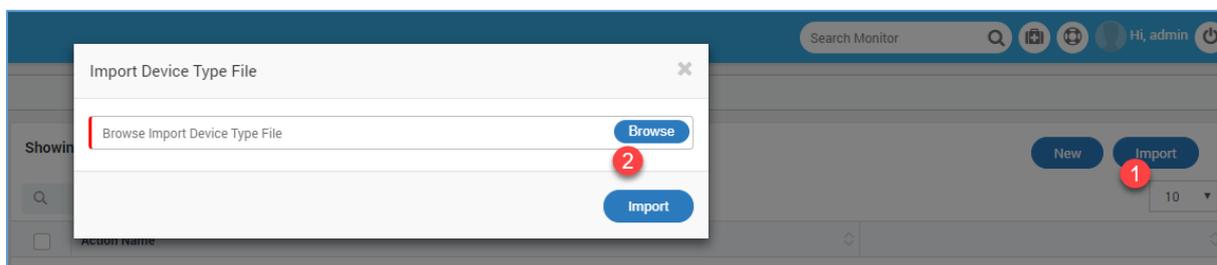
To change the description when a new device is added
💬

---

Create
Reset

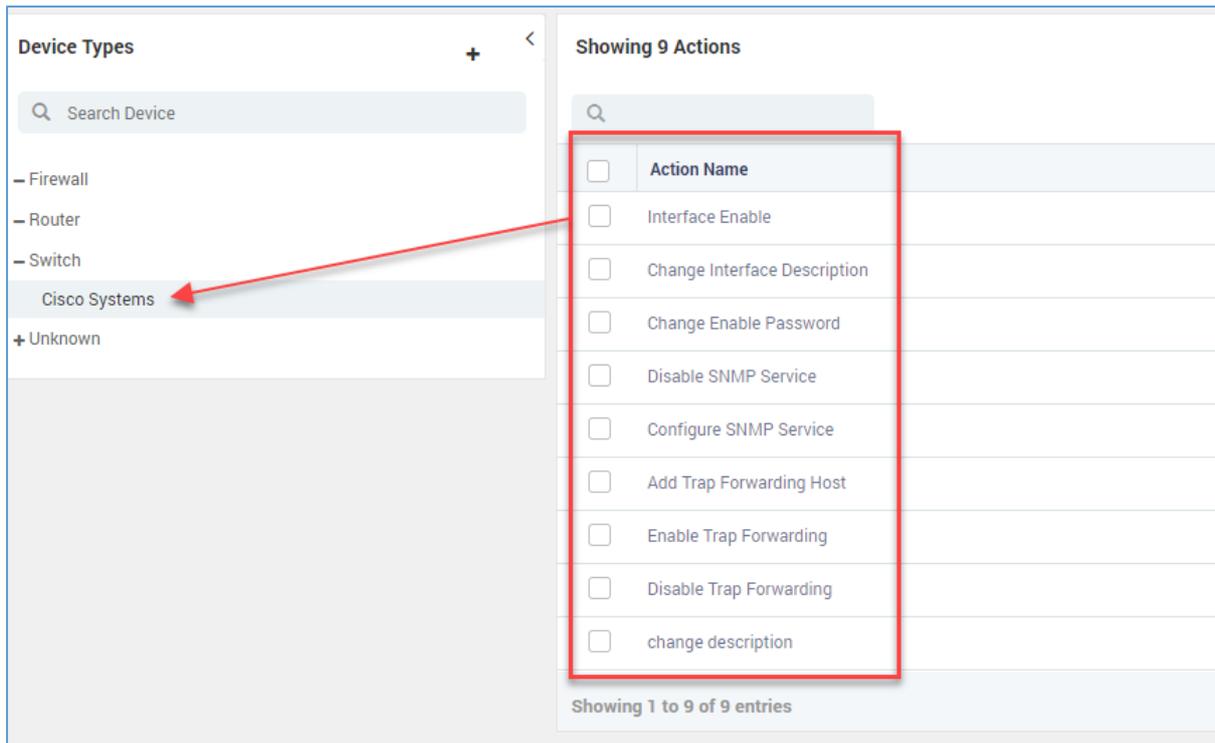
## 5.5 [Import Actions](#)

To import an action from your local machine, click on the import button. A popup will appear for you to import the files. Here you **should** import the YML files. System will read the files to create 'Action Command' from YML. The maximum file size you can upload is 100 MB. The imported file will appear in actions list of selected device type.



## 5.6 [Device Types](#)

Device type is the category under which actions on the right side are displayed.



**Device Types**

Search Device

- Firewall
- Router
- Switch
- Cisco Systems**
- + Unknown

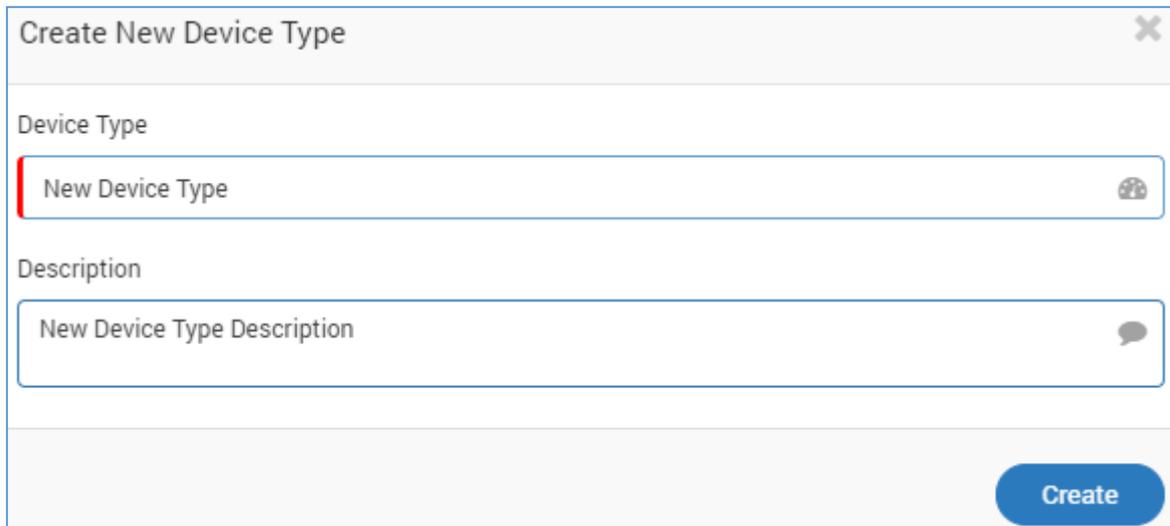
**Showing 9 Actions**

Search

| <input type="checkbox"/> | Action Name                  |
|--------------------------|------------------------------|
| <input type="checkbox"/> | Interface Enable             |
| <input type="checkbox"/> | Change Interface Description |
| <input type="checkbox"/> | Change Enable Password       |
| <input type="checkbox"/> | Disable SNMP Service         |
| <input type="checkbox"/> | Configure SNMP Service       |
| <input type="checkbox"/> | Add Trap Forwarding Host     |
| <input type="checkbox"/> | Enable Trap Forwarding       |
| <input type="checkbox"/> | Disable Trap Forwarding      |
| <input type="checkbox"/> | change description           |

Showing 1 to 9 of 9 entries

You can also create new device types for your network devices. Click on the + button. A popup will open to fill the details.



**Create New Device Type**

Device Type

New Device Type

Description

New Device Type Description

Create

Change Interface Description
[View Action Logs](#) ✕

---

Scheduler Name ▼

Email Actions ▲

No data available in table

Showing 0 to 0 of 0 entries

Previous
Next

Scheduler Name

NCM scheduler to add interface name in description

Scheduler Date

2019-01-21
📅

Run Job At

00:00
▼

Repeat this job

Schedule Time Line

Daily
  Weekly
  Monthly

Date

1
✕

June

July

August

September

October

November

December

January ✕
February ✕
March ✕
April ✕
May ✕

Save

Reset

Cancel

- Provide the name of the scheduler.
- Select time of the schedule.
- For scheduling job at specific time, turn on 'Repeat this job' and configure the repeat schedule.

**Note:** The scheduler name and email at the top shows the list of existing schedulers for this action. For a new scheduler it is blank. But if there are existing schedulers running for the action, you'll see it there.

## 6 Alert (Journal Entry)

The page shows the alerts/logs of the NCM devices for each operation. You can also search logs, filters alerts based on operation type and audit status. The operations include:

- When a new backup is taken
- When an action is performed on the monitor
- When a backup is restored

| Operation Type                  | Message   | Time                     | User  | Status  |
|---------------------------------|---|--------------------------|-------|---------|
| NCM Remove From Baseline Backup | 172.16.10.43 backup version [2.0] removed from baseline | 23 Nov, 2018 06:18:45 PM | admin | Success |
| NCM Set As Baseline Backup      | 172.16.10.43 backup version [2.0] set as baseline       | 23 Nov, 2018 06:18:45 PM | admin | Success |

### Column Description

|                       |   |
|-----------------------|---|
| <b>Operation Type</b> | Name of the activity type. There are total _ types of activities available. |
| <b>Message</b>        | Information of the activity in NCM devices                                  |
| <b>Time</b>           | Date time stamp of the activity   |
| <b>User</b>           | Name of the user who performed the activity                                 |
| <b>Status</b>         | Status of the activity (Success/Fail)                                       |

### 6.1 Actions

From the actions you can:

- Change the time span. Available time spans are: Last hour, This hour, Last 6 hours, Last 12 hours, Last 24 hours (default), Today, This week, This month, This year, Last Day, Last week, Last month, Last year, Previous hour, Previous day, Previous week, Previous month, Previous year
- Export the alerts to an excel file.

