

## Quick Reference Guide

### Method 1: Firmware update with Ansible using NetApp Docker Image

#### 1. Pulling Ansible Docker Image to the Linux host.

```
$ docker pull schmots1/netapp-ansible
```

```
Using default tag: latest
```

```
latest: Pulling from schmots1/netapp-ansible
```

```
docker.io/schmots1/netapp-ansible:latest
```

#### 2. Running the docker image as container on the Linux host.

Playbook and the inventory file must be in the same path.

```
$ docker run -v <downloaded_playbook_path>:/<container_path> -it  
schmots1/netapp-ansible:latest /bin/bash
```

#### 3. Execute the playbook on the Linux host, follow the instructions and provide the required details. Firmware updates will occur as a background process over a few hours.

```
$ cd <container_path>
```

```
$ ansible-playbook na_ontap_pb_upgrade_firmware.yml
```

```
Enter your ONTAP admin username: ****
```

```
Enter the password for your ONTAP admin user: ****
```

```
Enter the base URL to the firmware package (using HTTP is recommended): http://<web-server>/path/
```

```
PLAY [ONTAP Firmware Upgrade] *****
```

**Note:** If the URL for Disk firmware and Shelf Firmware are [http://<web-server>/path/all\\_shelf\\_fw.zip](http://<web-server>/path/all_shelf_fw.zip) and <http://<web-server>/path/all.zip>, provide till <http://<web-server>/path/> as the input for base URL to firmware package

#### 4. To verify that the new drive firmware is installed, log in to the cluster as the cluster administrator and enter the following command.

```
::> storage disk show -fields firmware-revision,model
```

disk	firmware-revision	model
1.11.0	NA01	X423_HCOBE900A10
1.11.1	NA01	X423_HCOBE900A10
1.11.2	NA01	X423_HCOBE900A10
1.11.3	NA01	X423_HCOBE900A10
1.11.4	NA01	X423_HCOBE900A10

## Method 2: Firmware update if already using Ansible

1. After installing python and ansible, download the following python packages via PIP  
`$ pip install netapp-lib requests`

```
Installing collected packages: netapp-lib, requests
Successfully installed netapp-lib-2020.3.12 requests-2.23.0
```

2. Install the NetApp ansible collection

To install the collection only for the current user

```
$ ansible-galaxy collection install netapp.ontap
```

To do a more universal installation,

```
$ ansible-galaxy collection install netapp.ontap -p
/usr/share/ansible/collections
```

```
$ chmod -R +rw /usr/share/ansible/collections
```

3. Execute the playbook, follow the instructions and provide the required details. Firmware updates will occur as a background process over a few hours.

Playbook and the inventory file must be in the same path

```
$ cd <playbook_path>
$ ansible-playbook na_ontap_pb_upgrade_firmware_disk.yml
```

Enter your ONTAP admin username: \*\*\*\*

Enter the password for your ONTAP admin user: \*\*\*\*

Enter the base URL to the firmware package (using HTTP is recommended): <http://<web-server>/path/>

PLAY [ONTAP Firmware Upgrade] \*\*\*\*\*

**Note:** If the URL for Disk firmware and Shelf Firmware are [http://<web-server>/path/all\\_shelf\\_fw.zip](http://<web-server>/path/all_shelf_fw.zip) and <http://<web-server>/path/all.zip>, provide till <http://<web-server>/path/> as the input for base URL to firmware package

4. To verify that the new drive firmware is installed, log in to the cluster as the cluster administrator and enter the following command.

```
::> storage disk show -fields firmware-revision,model
      disk      firmware-revision model
-----
1.11.0  NA01          X423_HCOBE900A10
1.11.1  NA01          X423_HCOBE900A10
1.11.2  NA01          X423_HCOBE900A10
1.11.3  NA01          X423_HCOBE900A10
1.11.4  NA01          X423_HCOBE900A10
```

