



Steps to upgrade NGINX controller for SureMDM On-Premise

Title	Steps to upgrade NGINX controller for SureMDM On-Prmise
Classification	Confidential

Steps to upgrade NGINX controller:

Below are the steps needed to be performed on the SureMDM On-Premise application server:

Note: These steps are applicable for SureMDM On-Premise styx v.1.7.0, 1.7.1, 1.11.8, 1.11.9, 1.11.10, 1.11.11, 1.20.0 and 1.20.1

1. Download the [NGINX](#) file, upload it to the SureMDM application server, and then run the following command from the directory where the file is located to apply the changes:

Command: `sudo kubectl apply -f ingress_nginx_deploy.yaml`

Note : System admins without internet access on the SureMDM server can download the [nginx image](#), transfer it to the SureMDM server, and then import it into the container by executing the following command.

Command : `sudo k3s ctr images import <image_name>`

2. Navigate to the **k8sopinstaller** directory

Command: `cd manifests/ingress-nginx/`

3. Edit the **ingress.yaml** file and change path type from **Prefix** to **ImplementationSpecific** for the tags mentioned below:

```
- path: /getnextjob.aspx
  pathType: ImplementationSpecific
  backend:
    service:
      name: jobtodeviceservice-service
      port:
        number: 80
- path: /deviceservices.ashx
  pathType: ImplementationSpecific
  backend:
    service:
      name: devicerouterservice-service
      port:
        number: 80
```

Note: Below tags are only applicable for styx v1.11.8, 1.11.9, 1.11.10, 1.11.11, 1.20.0, and 1.20.1

```
- path: /nixlongpoll.ashx
  pathType: ImplementationSpecific
  backend:
    service:
      name: shield-service
      port:
        number: 80
```

```
- path: /APIComm.ashx
  pathType: ImplementationSpecific
  backend:
    service:
      name: pluto-service
      port:
        number: 80
```

```
- path: /(. *PowerShellPluto)
  pathType: ImplementationSpecific
  backend:
    service:
      name: mem-deployment
      port:
        number: 80
```

```
- path: /shield/*
  pathType: ImplementationSpecific
  backend:
    service:
      name: shield-service
      port:
        number: 80
```

4. Navigate to the **k8sopinstaller** directory and execute the following command:

Command: `sudo bash ssl-setup/ssl_setup.sh <dns-name>`

Replace the **<dns-name>** with the correct DNS of the deployment (**Example- `sudo bash ssl-setup/ssl_setup.sh suremdm.42gears.com`**)

When prompted during setup, enter the SSL certificate and key placed in the **appdata/certs** folder.

5. After completing all the changes, run the following command to ensure that all pods are in a running state and verify the NGINX controller version by specifying the ingress-controller pod name:

Command to list pods : `sudo kubectl get pods -A`

Command to verify the version:

`sudo kubectl exec -it -n ingress-nginx <ingress-controller-podname> -- /nginx-ingress-controller --version`

Note: *The above command is written in a smaller font for user preference, making it easy to copy and use as needed.*

Result: Latest nginx controller version should be visible.

Additional step for Deployment with /suremdm:

Below are the steps needed to be performed along with the above steps in case of /SureMDM deployments:

- Navigate to the **k8sopinstaller** directory:
- Run the following command to navigate to the **ingress-nginx** folder:

Command: `cd manifests/ingress-nginx/`

- Edit the **ingress-suremdm.yaml** file and change the pathType: **Prefix** to **pathType: ImplementationSpecific** for all the tags present.
- Once changes are done, apply the Ingress configuration by executing the following command from the same **manifests/ingress-nginx/** directory

Command: `sudo kubectl apply -f ingress-suremdm.yaml`