

NetBox Quick Start Installation Guide

Deploy a NetBox Dev/Test Environment in 20 Minutes

To get [NetBox](#) up and running in the fastest possible way, follow this guide. This framework will allow you to install, backup, remove, upgrade, customize, and deploy NetBox plugins, all in minutes.

The blue info boxes flag **What You've Missed**, which are stages you should consider in a production, or in "more than just a NetBox lab" environment.

5 Minute Demo

<https://www.youtube.com/embed/-08l3LOLX-o?si=5Hrtzfw15N1Xubas>

Installation Guide

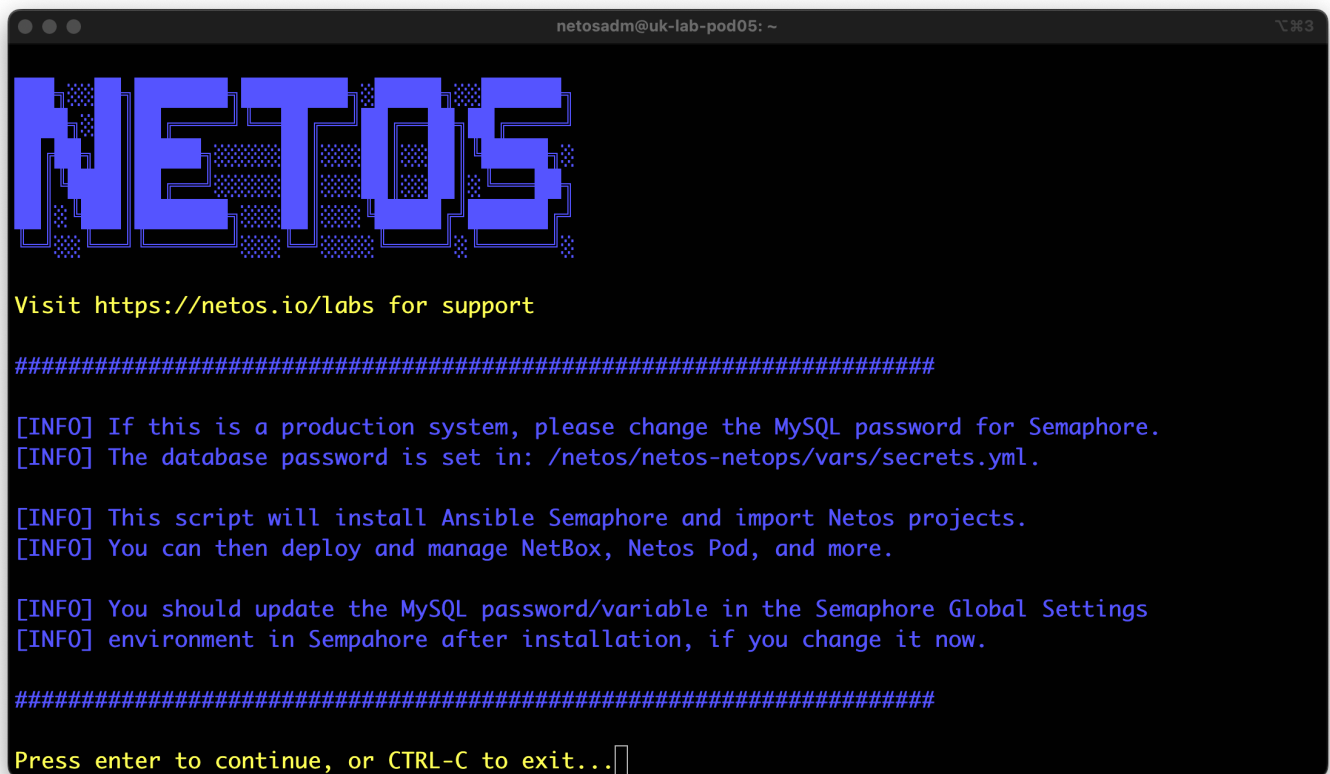
1. Install Ubuntu Server

You're going to need to get a server with **Ubuntu 24.04 LTS** up and running. [Download an image](#) like `ubuntu-24.04-live-server-amd64.iso` or spin up an instance on your favorite cloud provider, like AWS.

2. Install Semaphore and the Netos NetOps Project

You can follow the full [Install Semaphore Guide](#), however, in summary, once you install Ubuntu, paste this command to pull the repo and run the install script, and you shouldn't need to do anything else:

```
sudo wget https://raw.githubusercontent.com/netos-networks/netos-netops/refs/heads/main/easy-deploy.sh && sudo  
chmod +x easy-deploy.sh && sudo ./easy-deploy.sh
```

A terminal window with a dark background. At the top, the title bar reads 'netosadm@uk-lab-pod05: ~'. Below the title bar is a large, stylized blue logo that says 'NETOS' with circuit-like patterns. Underneath the logo, it says 'Visit https://netos.io/labs for support'. Then there are several lines of text in yellow and blue, including a separator line of hashes, informational messages in brackets like '[INFO] If this is a production system, please change the MySQL password for Semaphore.', and a prompt at the bottom that says 'Press enter to continue, or CTRL-C to exit...' followed by a cursor.

```
netosadm@uk-lab-pod05: ~  
  
NETOS  
  
Visit https://netos.io/labs for support  
  
#####  
[INFO] If this is a production system, please change the MySQL password for Semaphore.  
[INFO] The database password is set in: /netos/netos-netops/vars/secrets.yml.  
  
[INFO] This script will install Ansible Semaphore and import Netos projects.  
[INFO] You can then deploy and manage NetBox, Netos Pod, and more.  
  
[INFO] You should update the MySQL password/variable in the Semaphore Global Settings  
[INFO] environment in Sempahore after installation, if you change it now.  
  
#####  
Press enter to continue, or CTRL-C to exit...  
█
```

The [Key Semaphore Principles](#) guide explains more about Semaphore.

Check the [Users, Accounts, and Tokens](#) guide for more information about credentials and variables.

3. Configure Semaphore

These steps are optional, so you can skip this for now.

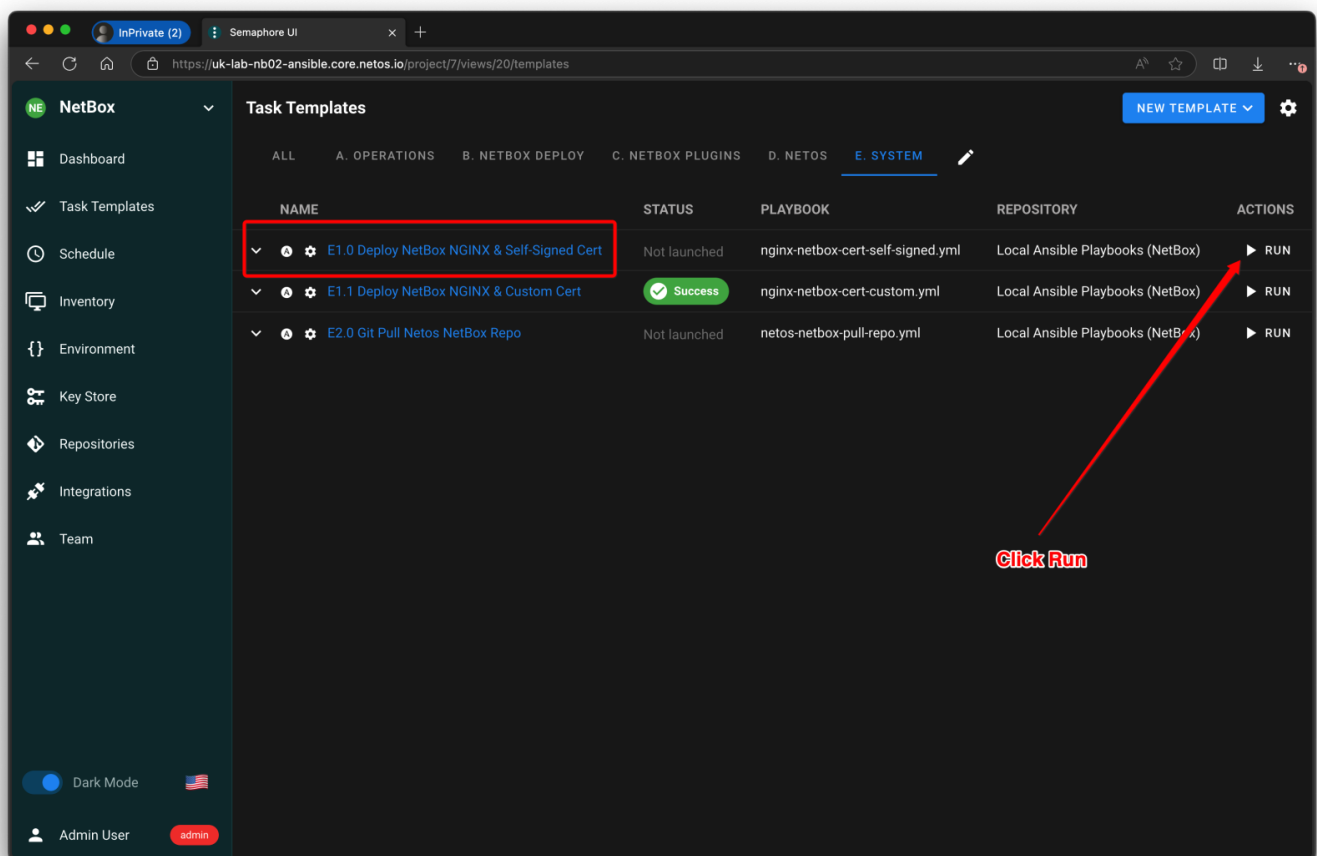
Change the `DOMAIN` and `SEMAPHORE_HOSTNAME` variables in the **NetBox Global Settings** Semaphore environment. Follow the [Deploying NGINX & Certificates](#) guide.

Deploy self-signed certificates, so you don't get "**your connection isn't private**" browser warnings. Follow the [Deploying NGINX & Certificates](#) guide.

Enable [Semaphore Backups](#).

4. Deploy NGINX and Self-Signed Cert for NetBox

You need to deploy NGINX to connect to NetBox. To fast track, you can just create a self-signed certificate. The default hostname will be `netbox.netos.dev`.

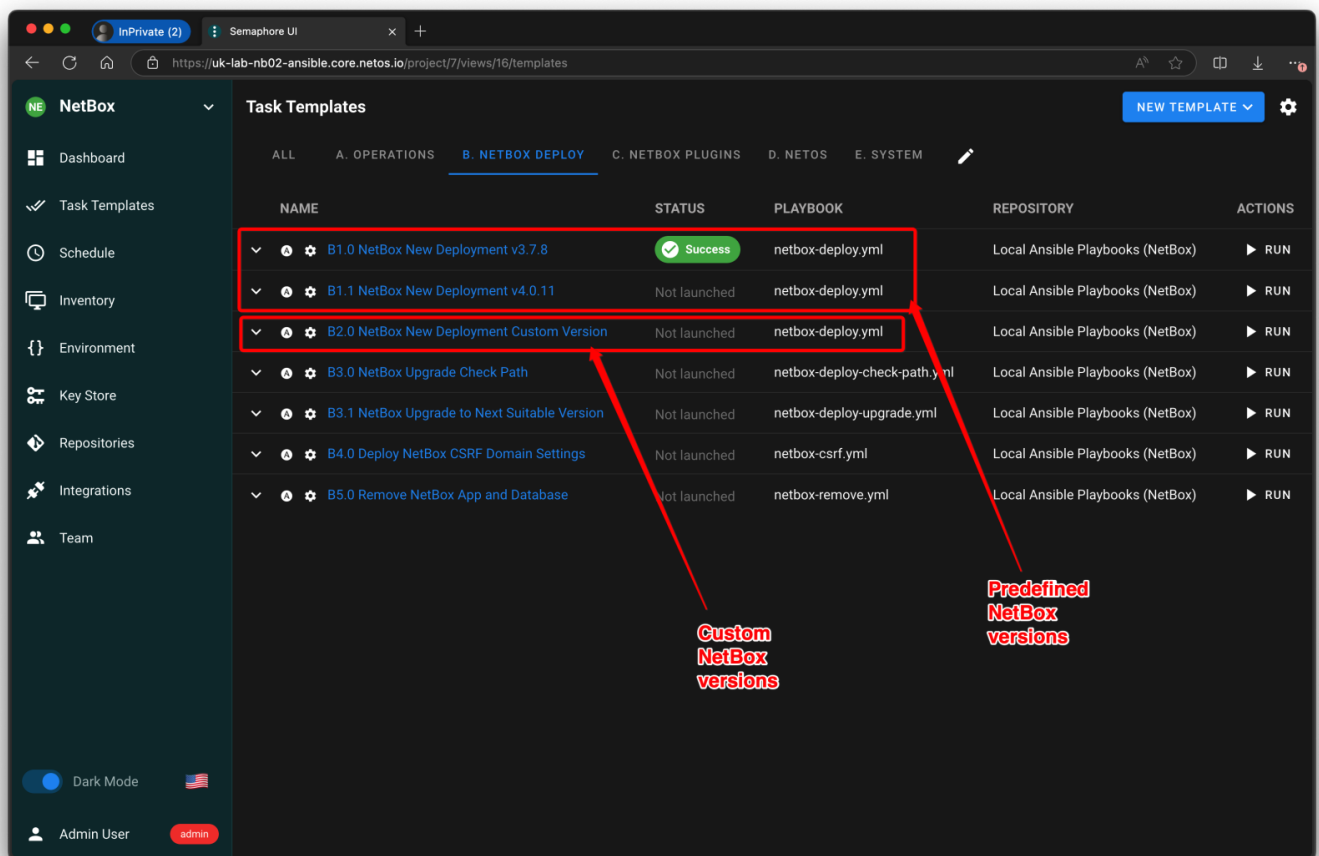


Change the `DOMAIN` and `NETBOX_HOSTNAME` variables in the **NetBox Global Settings** Semaphore environment. Follow the [Deploying NGINX & Certificates](#) guide.

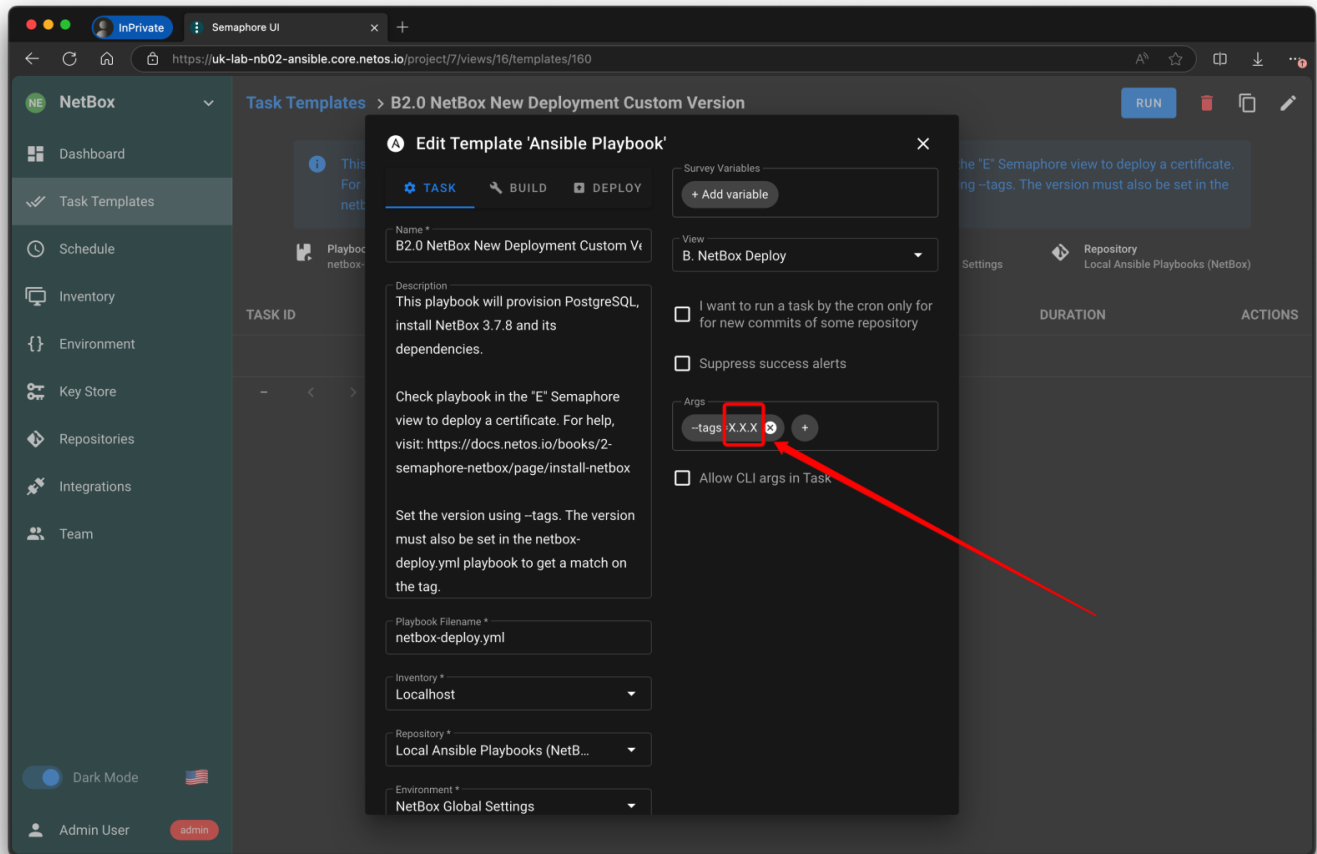
Deploy self-signed certificates, so you don't get "Your connection isn't private" browser warnings. Follow the [Deploying NGINX & Certificates](#) guide.

5. Install NetBox

Browse to the **NETBOX DEPLOY** view in Semaphore to start the installation. The full [NetBox Installation Guide](#) is here.



If you want to install a specific version, set it here, matching the numeric version from [Releases · netbox-community/netbox \(github.com\)](#). Don't add the `v`, i.e. `v4.1.2` would be `4.1.2`.



Configure scheduled daily NetBox Backups or set your own custom frequency.

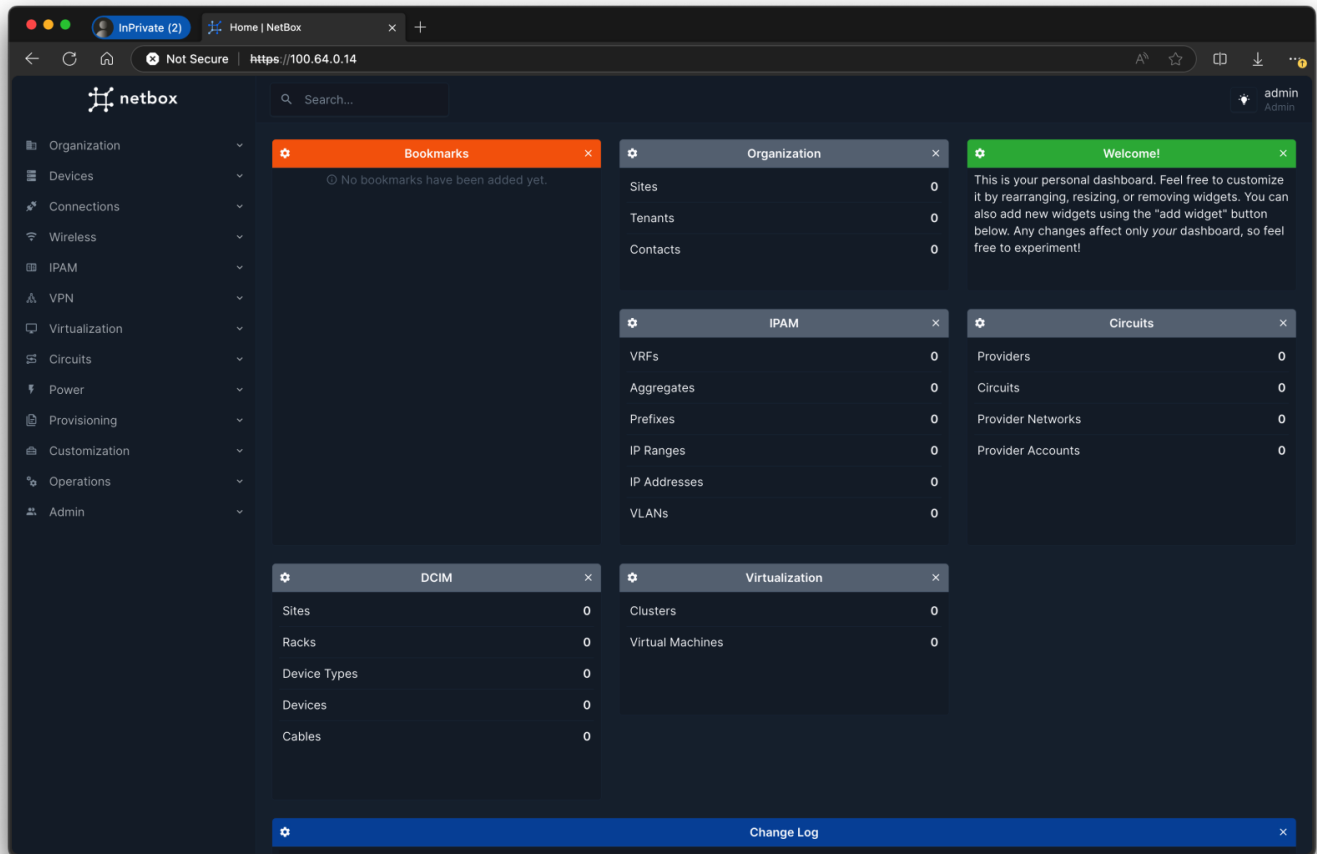
Upgrade NetBox. For example, maybe you've used the Restore process to restore to an older version and want to upgrade to a newer version.

Enable the NetBox Maintenance Playbook on a daily schedule as per the developer's guidance.

6. Connect to NetBox

Once the playbook is complete, you should be able to connect using HTTPS and the IP address to NetBox. Check the Users, Accounts, and Tokens guide for full details on account and passwords. The default credentials are as follows:

- **Username:** `admin`
- **Password:** `ohp8toef7Jee`



If you experience any problems, you can run the [Health Check Playbook](#) to quickly diagnose common issues. For example, check the logs to catch the reason why NetBox failed to start.

7. Install NetBox Plugins

You can [Install and Upgrade](#) popular NetBox plugins from within Semaphore, and also [Disable NetBox Plugins](#). This feature is a work-in-progress, and probably will be for a while...!

NE NetBox	Task Templates	NEW TEMPLATE				
Dashboard	ALL	A. OPERATIONS	B. NETBOX DEPLOY	C. NETBOX PLUGINS	D. NETOS	E. SYSTEM
Task Templates	NAME	STATUS	LAST TASK	PLAYBOOK	REPOSITORY	ACTIONS
Schedule	✓ C. IP Fabric - Deploy Plugin	Success	#2640 by Admin User	netbox-plugin-deploy.yml	Local Ansible Playbooks (NetBox)	RUN
Inventory	✓ C. IP Fabric - Disable Plugin	Not launched		netbox-plugin-disable.yml	Local Ansible Playbooks (NetBox)	RUN
Environment	✓ C. NetBox ACLs - Deploy Plugin	Success	#2642 by Admin User	netbox-plugin-deploy.yml	Local Ansible Playbooks (NetBox)	RUN
Key Store	✓ C. NetBox ACLs - Disable Plugin	Not launched		netbox-plugin-disable.yml	Local Ansible Playbooks (NetBox)	RUN
Repositories	✓ C. NetBox Attachments - Deploy Plugin	Success	#2641 by Admin User	netbox-plugin-deploy.yml	Local Ansible Playbooks (NetBox)	RUN
Integrations	✓ C. NetBox Attachments - Disable Plugin	Not launched		netbox-plugin-disable.yml	Local Ansible Playbooks (NetBox)	RUN
Team	✓ C. NetBox BGP - Deploy Plugin	Success	#2643 by Admin User	netbox-plugin-deploy.yml	Local Ansible Playbooks (NetBox)	RUN
	✓ C. NetBox BGP - Disable Plugin	Not launched		netbox-plugin-disable.yml	Local Ansible Playbooks (NetBox)	RUN
	✓ C. NetBox OTP - Deploy Plugin	Success	#2602 by Admin User	netbox-plugin-deploy.yml	Local Ansible Playbooks (NetBox)	RUN
	✓ C. NetBox OTP - Disable Plugin	Success	#2576 by Admin User	netbox-plugin-disable.yml	Local Ansible Playbooks (NetBox)	RUN
	✓ C. NetBox Re-Order Rack - Deploy Plugin	Success	#2592 by Admin User	netbox-plugin-deploy.yml	Local Ansible Playbooks (NetBox)	RUN
	✓ C. NetBox Re-Order Rack - Disable Plugin	Not launched		netbox-plugin-disable.yml	Local Ansible Playbooks (NetBox)	RUN
	✓ C. NetBox Secrets - Deploy Plugin	Success	#2645 by Admin User	netbox-plugin-deploy.yml	Local Ansible Playbooks (NetBox)	RUN
	✓ C. NetBox Secrets - Disable Plugin	Not launched		netbox-plugin-disable.yml	Local Ansible Playbooks (NetBox)	RUN
	✓ C. NetBox Topology Views - Deploy Plugin	Success	#2646 by Admin User	netbox-plugin-deploy.yml	Local Ansible Playbooks (NetBox)	RUN

If things go wrong in your test environment, you can quickly [Wipe NetBox](#) and start again.

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