

Introduction to the Netos NetOps Project

Introduction

Our goal with our Semaphore projects is to deliver a framework that makes it simple and fast to deploy and manage open-source enterprise networking applications and tools.

- Quickly spin up an enterprise grade application stack (in minutes).
- Deal with all the critical yet time consuming platform engineering at the click of a button.
- Deal with the boring but important stuff like backups, restores, and maintenance.
- Fast track to the interesting stuff like playing with the tools and dev/test.

Over time we will publish more projects with associated playbooks. Currently available is:

- **Netos NetOps** - A simple wrapper project for managing the underlying Semaphore instance.
- [Netos NetBox](#) - Contains all the playbooks to deploy and operate NetBox.

Ansible Semaphore

[Semaphore UI](#) is a simple and easy to use alternative to Ansible AWX. Netos have used it for over a year without issues to run thousands of playbooks and manage all of our infrastructure.

“ It is convenient and easy to use - user friendly web interface for executing Ansible playbooks, Terraform, OpenTofu, Pulumi code and Bash scripts. It is designed to make your automation tasks easier and more enjoyable.

Playbooks

At a click of a button you can perform complex installations, like installing NetBox, and a lot more.

 Success

 Author
Admin User

 Started
15 hours ago

 Duration
3 minutes

```

8:51:17 PM changed: [127.0.0.1] => (item=netbox-rq)
8:51:17 PM
8:51:17 PM TASK [netbox-deploy : Add Postgresql ubuntu apt key] *****
8:51:19 PM ok: [127.0.0.1]
8:51:19 PM
8:51:19 PM TASK [netbox-deploy : Get lsb_release version for Ubuntu] *****
8:51:19 PM changed: [127.0.0.1]
8:51:19 PM
8:51:19 PM TASK [netbox-deploy : Add Postgresql Repository for noble] *****
8:51:20 PM ok: [127.0.0.1]
8:51:20 PM
8:51:20 PM TASK [netbox-deploy : Ensure postgresql client is installed] *****
8:51:20 PM ok: [127.0.0.1]
8:51:20 PM
8:51:20 PM TASK [netbox-deploy : Ensure requisite directories are created] *****
8:51:20 PM ok: [127.0.0.1] => (item=/netos/backups)
8:51:21 PM ok: [127.0.0.1] => (item=/netos/backups/netbox)
8:51:21 PM
8:51:21 PM TASK [netbox-deploy : ensure .pgpass file is created] *****
8:51:21 PM ok: [127.0.0.1]
8:51:21 PM
8:51:21 PM TASK [netbox-csrf : Modify the CSRF_TRUSTED_ORIGINS Setting in settings.py] ****
8:51:21 PM changed: [127.0.0.1]
8:51:21 PM
8:51:21 PM RUNNING HANDLER [database-deploy : restart postgresql] *****
8:51:24 PM changed: [127.0.0.1]
8:51:24 PM
8:51:24 PM RUNNING HANDLER [netbox-csrf : restart netbox services] *****
8:51:26 PM changed: [127.0.0.1] => (item=netbox)
8:51:28 PM changed: [127.0.0.1] => (item=netbox-rq)
8:51:28 PM
8:51:28 PM PLAY RECAP *****

```

Views

Views group together different playbooks, for example, below you can the tasks that deploy NetBox:

Task Templates NEW TEMPLATE ▾ ⚙

ALL A. OPERATIONS **B. NETBOX DEPLOY** C. NETBOX PLUGINS D. NETOS E. SYSTEM ✎

NAME	VERSION	STATUS	LAST TASK	PLAYBOOK	INVENTORY	ENVIRONM
▼ ⓐ ⚙ B1.0 NetBox New Deployment v3.7.8	—	✓ Success	#2576 by Admin User	netbox-deploy.yml	Localhost	NetBox Glo
▼ ⓐ ⚙ B1.1 NetBox New Deployment v4.0.11	—	Not launched		netbox-deploy.yml	Localhost	NetBox Glo
▼ ⓐ ⚙ B2.0 NetBox New Deployment Custom Version	—	Not launched		netbox-deploy.yml	Localhost	NetBox Glo
▼ ⓐ ⚙ B3.0 NetBox Upgrade Check Path	—	✓ Success	#2593 by Admin User	netbox-deploy-check-path.yml	Localhost	NetBox Glo
▼ ⓐ ⚙ B3.1 NetBox Upgrade to Next Suitable Version	—	✓ Success	#2573 by Admin User	netbox-deploy-upgrade.yml	Localhost	NetBox Glo
▼ ⓐ ⚙ B4.0 Deploy NetBox CSRF Domain Settings	—	✓ Success	#2574 by Admin User	netbox-csrf.yml	Localhost	NetBox Glo
▼ ⓐ ⚙ B5.0 Remove NetBox App and Database	—	✓ Success	#2575 by Admin User	netbox-remove.yml	Localhost	NetBox Bac

Semaphore Projects

Finally, we group everything together into different projects.

Task Templates

ALL A. OPERATIONS **B. SYSTEM** ✎

NAME	VERSION	STATUS
▼ ⓐ ⚙ A2.0 Semaphore Backup	—	Not launched
▼ ⓐ ⚙ B1.0 Deploy Semaphore NGINX & Self-Signed Cert	—	Not launched
▼ ⓐ ⚙ B1.1 Deploy Semaphore NGINX & Custom Cert	—	Not launched
▼ ⓐ ⚙ B2.0 Git Pull Netos NetOps Repo	—	Not launched

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