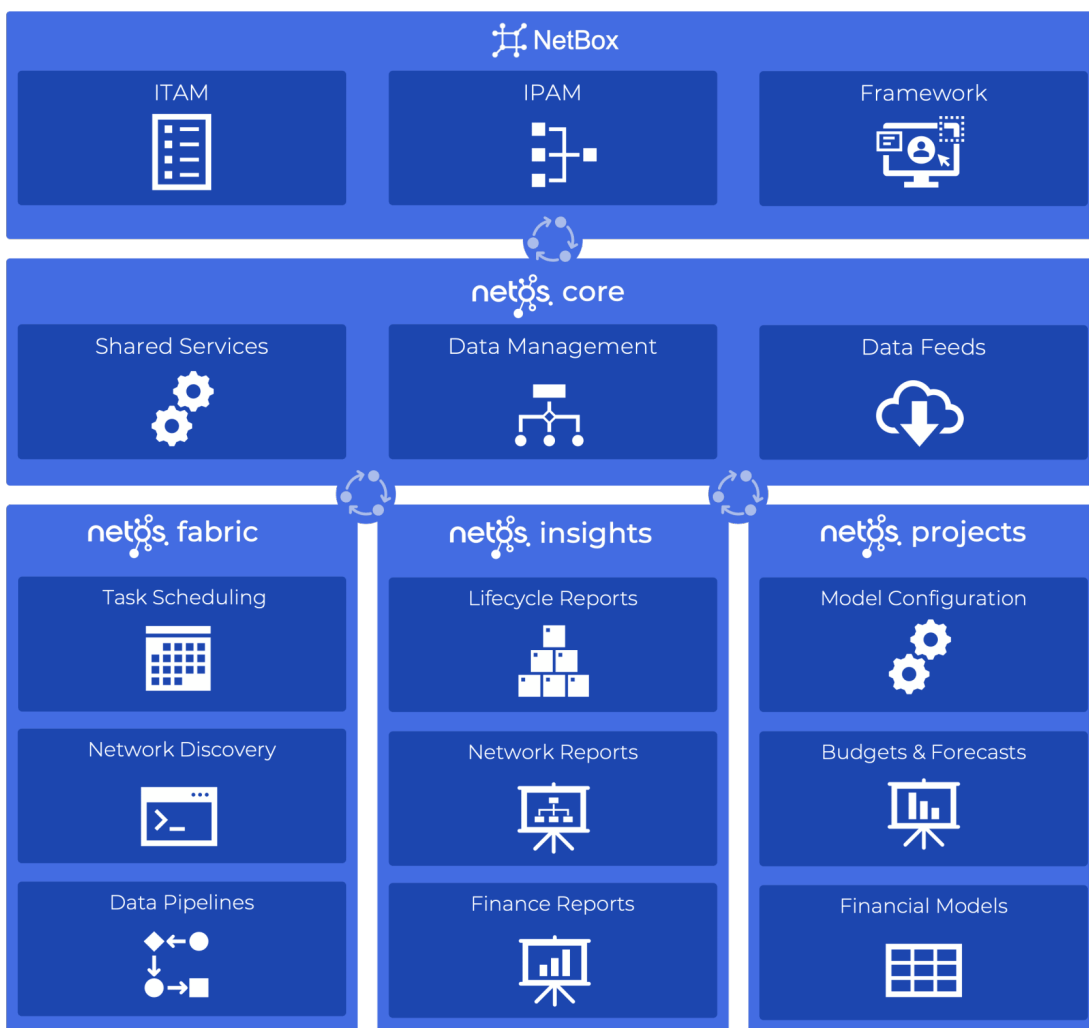


Deploy Netos Enterprise Plugins

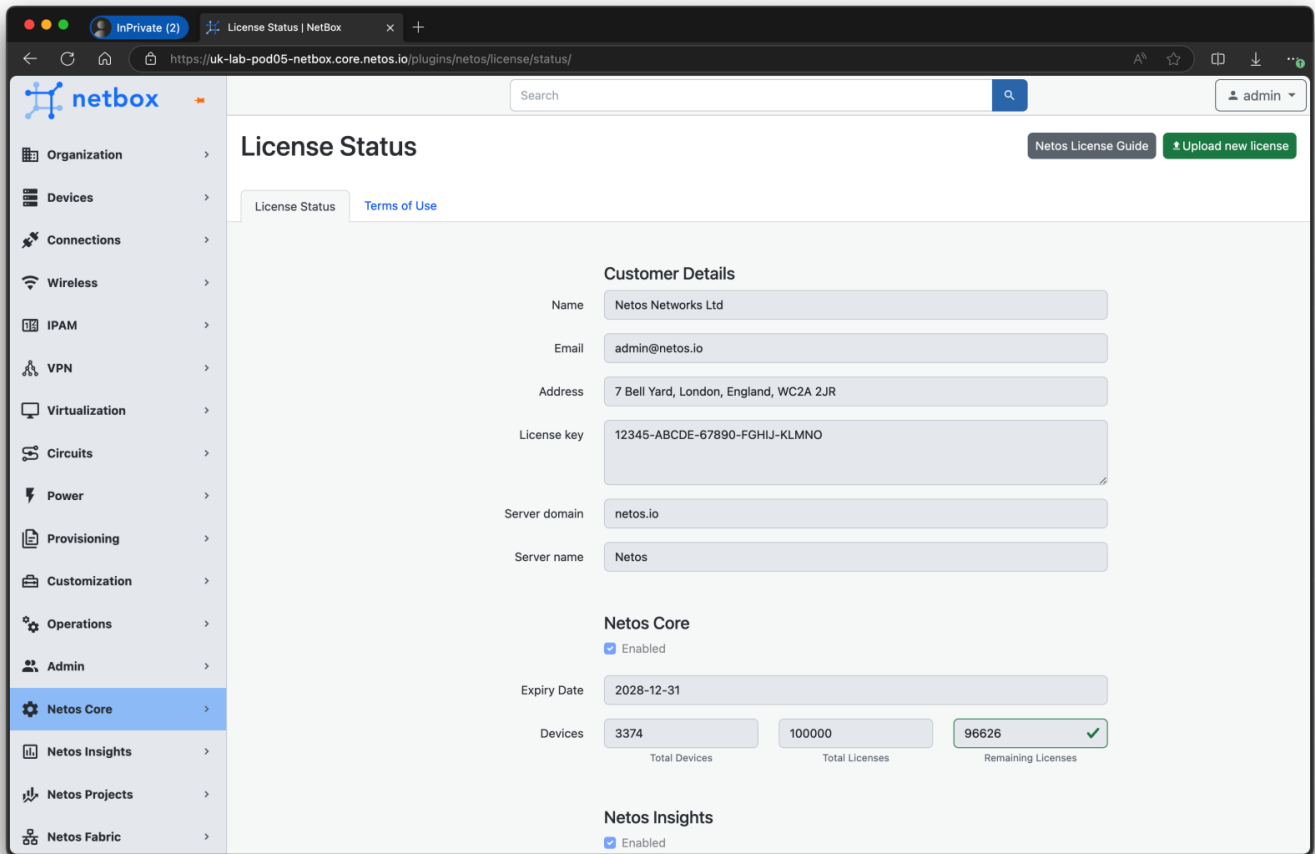
Introduction

This guide summarizes how to deploy licensed Netos enterprise plugins, which are compiled and licensed per-customer. The Netos Plugin architecture is as follows, and you can find out more [here](#).



License Status

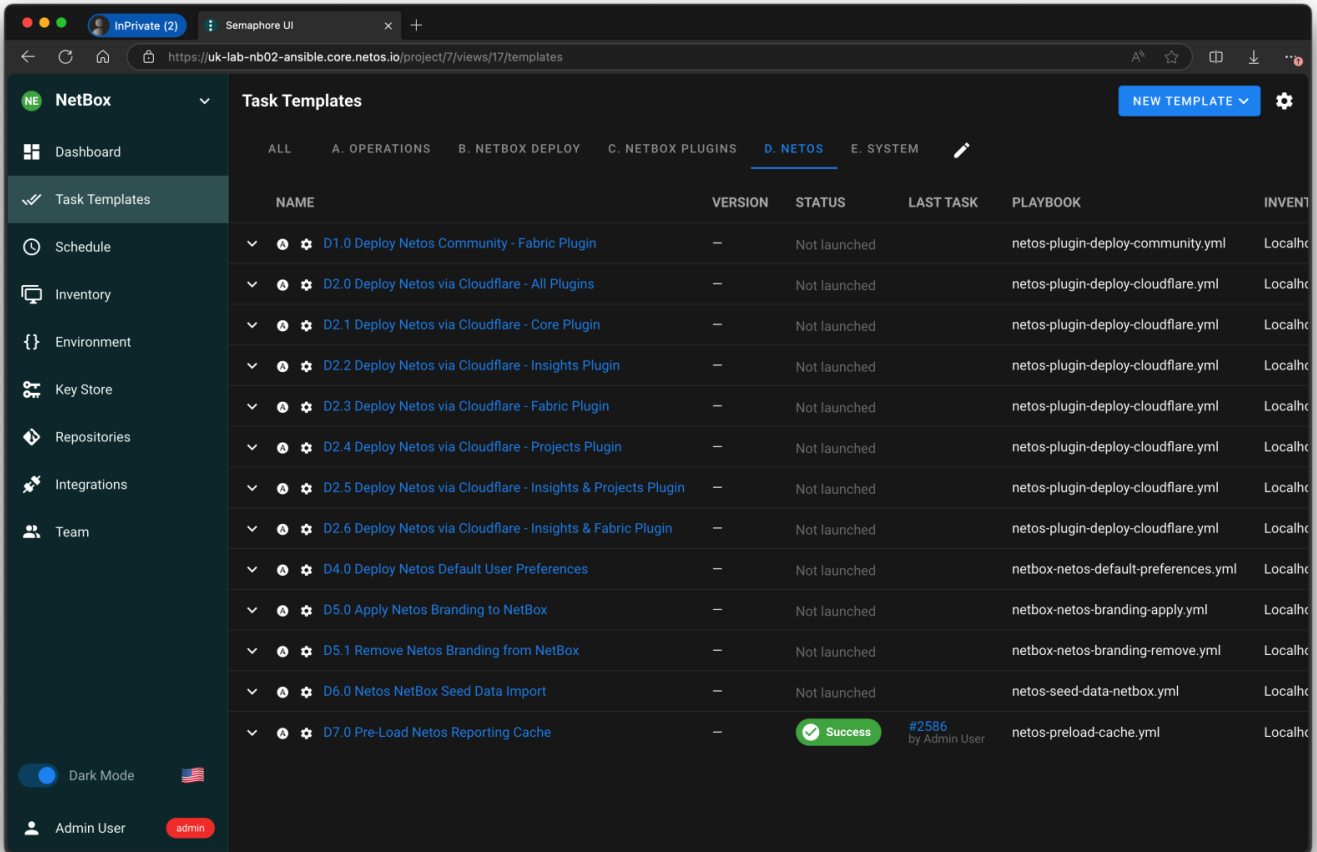
You can check the license status for each plugin in Netos Core.



Securely Deploy with Cloudflare Zero Trust

Typically you will deploy via Cloudflare which is a two-stage authentication process built for Netos NetBox and Netos Pod deployments not directly connected to the Netos internal network. Tokens and enterprise settings are configured in the **Netos Enterprise Plugin** environment in Semaphore.

1. Using the following ID and secret the deployment playbook will authenticate to Cloudflare Zero Trust to enable pass through to our secure GitLab server.
 1. `CF_ACCESS_CLIENT_ID`
 2. `CF_ACCESS_CLIENT_SECRET`
2. The playbook will then authenticate to your dedicated private repository using your customer ID and token:
 1. `CUSTOMER_ID`
 2. `CUSTOMER_TOKEN`
3. The plugins are downloaded and installed.



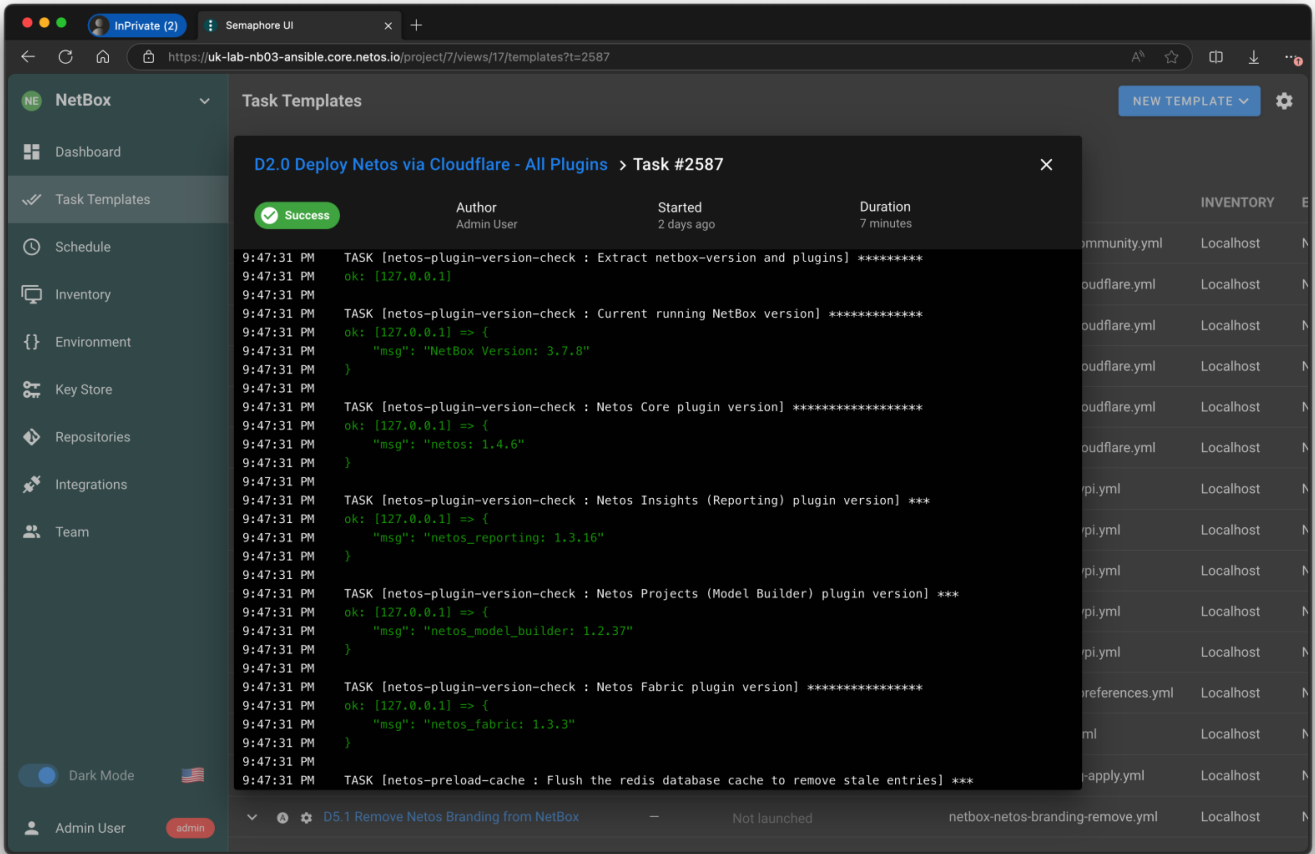
Deployment Process

First the Python dependencies will be checked and if missing installed using `pip`.

The screenshot shows the NetBox web interface with a task execution log for 'D2.0 Deploy Netos via Cloudflare - All Plugins'. The task is marked as 'Success' and was executed by 'Admin User' on '2 days ago' with a duration of '7 minutes'. The log details the installation of various Python dependencies and the deployment of Netos plugins.

Time	Task Description	Inventory	Host
9:40:22 PM	TASK [netos-plugin-dependency-check : Ensure required Python packages for Netos Plugins are installed]	community.yml	Localhost
9:40:23 PM	ok: [127.0.0.1] => (item={'name': 'pandas', 'version': '2.2.1'})		
9:40:24 PM	ok: [127.0.0.1] => (item={'name': 'openpyxl', 'version': '3.1.2'})	cloudflare.yml	Localhost
9:40:24 PM	ok: [127.0.0.1] => (item={'name': 'xlswriter', 'version': '3.1.2'})	cloudflare.yml	Localhost
9:40:25 PM	ok: [127.0.0.1] => (item={'name': 'croniter', 'version': '2.0.1'})		
9:40:26 PM	ok: [127.0.0.1] => (item={'name': 'elasticsearch', 'version': '8.8.0'})	cloudflare.yml	Localhost
9:40:27 PM	ok: [127.0.0.1] => (item={'name': 'numpy', 'version': '1.26.4'})		
9:40:27 PM	TASK [netos-plugin-dependency-check : Check if setuptools is installed] *****	cloudflare.yml	Localhost
9:40:27 PM	changed: [127.0.0.1]		
9:40:27 PM	TASK [netos-plugin-dependency-check : Install setuptools in the virtual environment if not present] **	cloudflare.yml	Localhost
9:40:27 PM	skipping: [127.0.0.1]		
9:40:28 PM	TASK [netos-plugin-deploy-cloudflare : Check authentication for Netos GitLab plugin download] ***	api.yml	Localhost
9:40:28 PM	changed: [127.0.0.1]		
9:40:28 PM	TASK [netos-plugin-deploy-cloudflare : Get current enabled NetBox plugins from the NetBox configuration]	api.yml	Localhost
9:40:28 PM	changed: [127.0.0.1]		
9:40:28 PM	TASK [netos-plugin-deploy-cloudflare : Prepare a list of existing plugins from the NetBox configuration]	api.yml	Localhost
9:40:28 PM	ok: [127.0.0.1]		
9:40:28 PM	TASK [netos-plugin-deploy-cloudflare : Add netos to current plugins list if not already present] ***	references.yml	Localhost
9:40:28 PM	ok: [127.0.0.1]		
9:40:28 PM	TASK [netos-plugin-deploy-cloudflare : Update PLUGINS entry in configuration.py with values of Netos a]	ml	Localhost
9:40:28 PM	ok: [127.0.0.1]		
9:40:28 PM	ok: [127.0.0.1]	apply.yml	Localhost

Once the plugins are deployed, the latest plugin versions are displayed.



Enterprise Support

Please speak with Netos Support for any assistance with this process. This is just a high-level guide.

Revision #3

Created 2024-09-23 17:05:25 UTC by Richard Foster

Updated 2024-09-30 10:16:46 UTC by Richard Foster