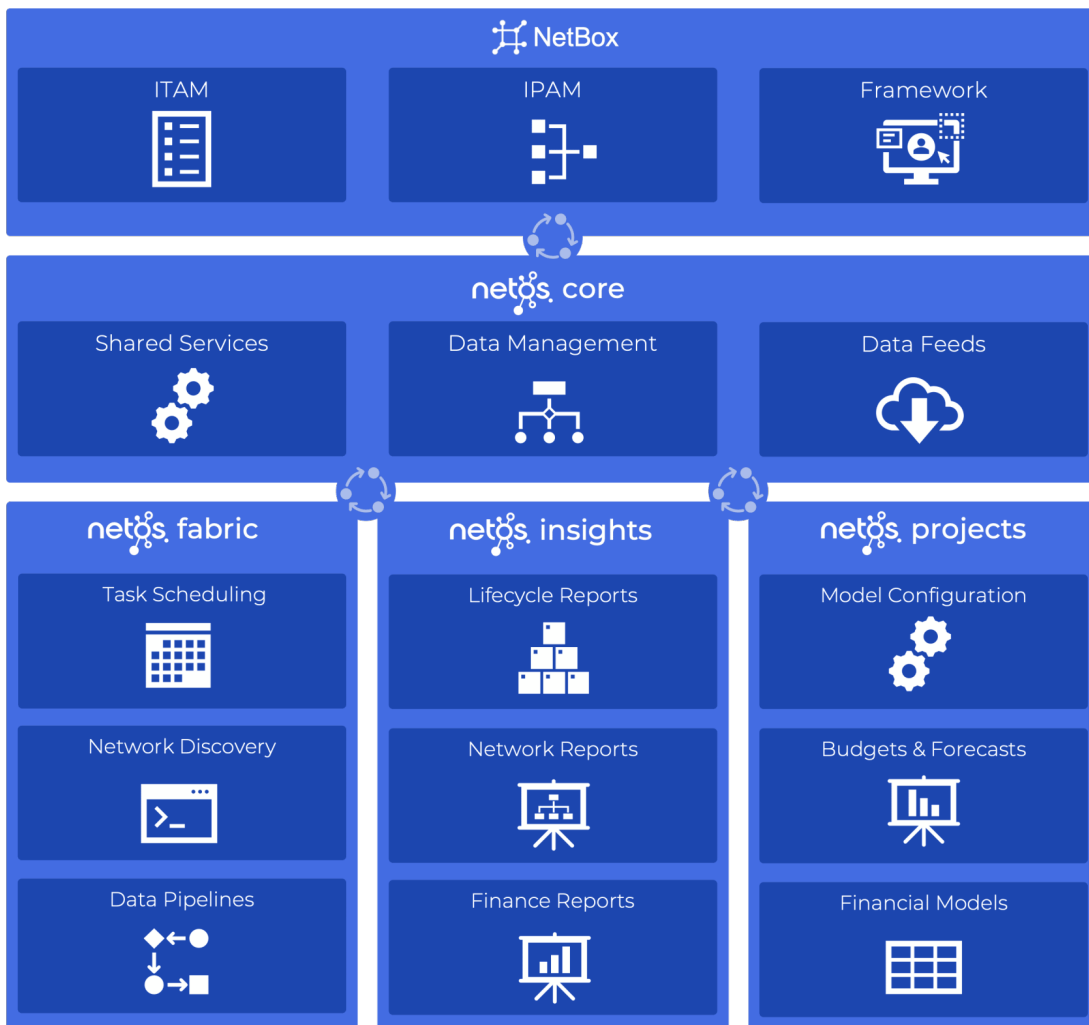


# Deploy Netos Enterprise Plugins

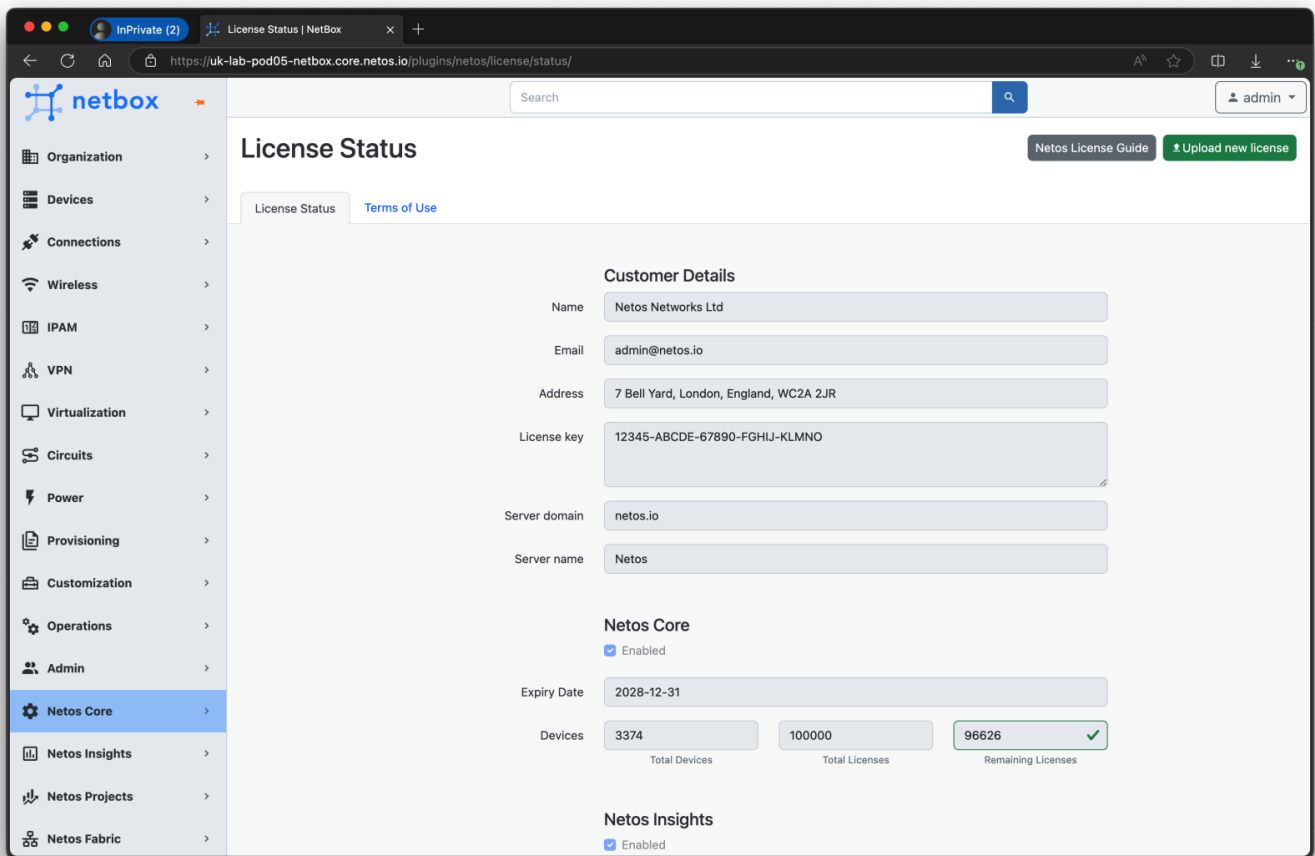
## Introduction

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.

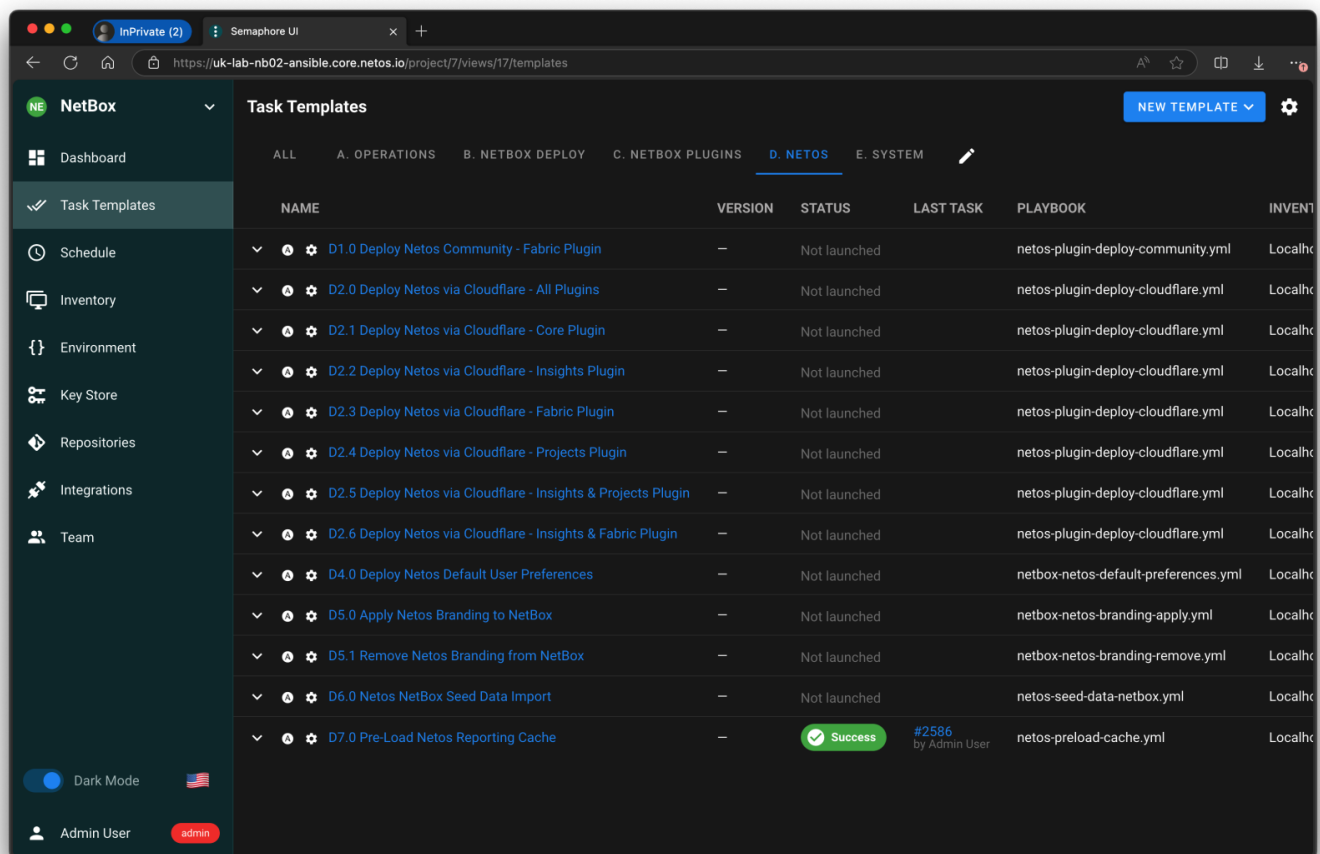


## Securely Deploy with Cloudflare Zero Trust

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

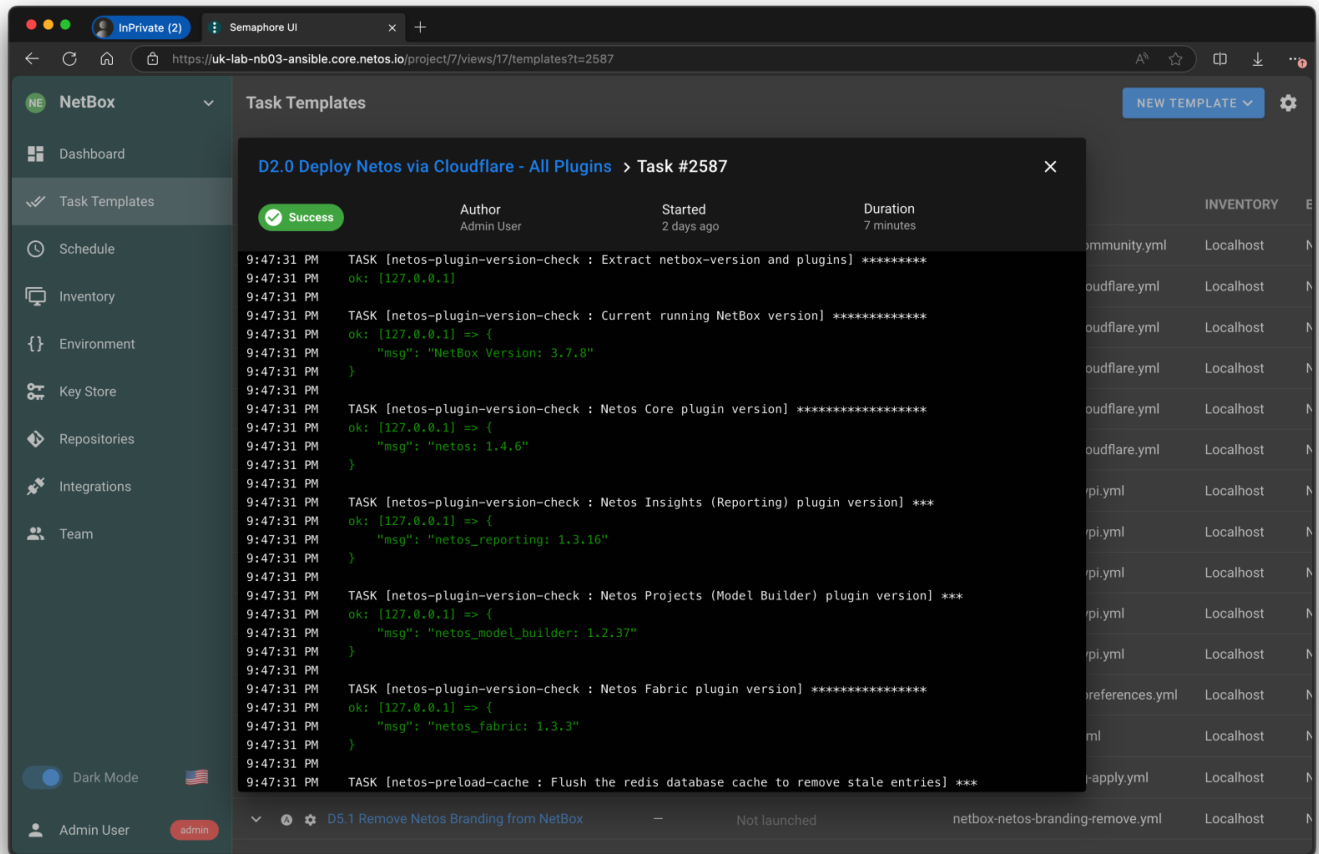
First the Python dependencies will be checked and if missing installed using `pip`.

The screenshot displays the NetBox Semaphore UI interface. On the left is a sidebar with navigation links: NetBox, Dashboard, Task Templates (selected), Schedule, Inventory, Environment, Key Store, Repositories, Integrations, and Team. The main area shows the 'Task Templates' page with a modal window open for 'D2.0 Deploy Netos via Cloudflare - All Plugins' (Task #2587). The modal indicates a 'Success' status, authored by 'Admin User', started '2 days ago', and took '7 minutes' to complete. The task log shows the following steps:

- 9:40:22 PM TASK [netos-plugin-dependency-check : Ensure required Python packages for Netos Plugins are installed]
- 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'})
- 9:40:24 PM ok: [127.0.0.1] => (item={'name': 'xlswriter', 'version': '3.1.2'})
- 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'})
- 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] \*\*\*\*\*
- 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] \*\*
- 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] \*\*\*
- 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]
- 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]
- 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] \*\*\*
- 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]
- 9:40:28 PM ok: [127.0.0.1]

At the bottom of the modal, a task 'D5.1 Remove Netos Branding from NetBox' is shown as 'Not launched'.

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.

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