How to Use NetBox SQL Manager

# 1. Setup Requirements

Install Python 3.8+ on your Windows machine.

Install Git Bash: required to use Unix-like commands (SSH, SCP).

Ensure you have a valid RSA SSH key (~/.ssh/id\_rsa) configured for NAS access.

Prepare a 'sources.csv' file listing your NetBox instances (NAS or local).

# 2. Launch the Application

Open Git Bash.

Navigate to the project directory. Example:

cd /c/Users/<your\_name>/Desktop/network\_db\_manager/

Run the main program:

python frontend/main\_cli.py

# 3. Export a Database

Choose option 1 - Export a database.

Select the source NetBox instance from the list (read from sources.csv).

Enter your SSH username and sudo password when prompted.

The tool will connect via SSH, export the SQL database from Docker, copy it locally, and verify with SHA256.

The resulting file will be saved as: exported\_database/exported\_netbox\_database.sql

# 4. Import a Database

Place your .sql file into the exported\_database/ folder.

Choose option 2 - Import a database.

Select the destination NetBox instance.

Confirm that you want to overwrite the existing database (type 'oui' to proceed).

The tool will verify the Docker container, copy the SQL file via SCP, delete the old schema, and import the new one.

# 5. Exit

To exit the tool, choose option 3 from the main menu.

# Tips

All operations are validated at each step (connectivity, SSH auth, Docker, file existence, and hash checks).

Do not modify NetBox while performing an export or import.

Make sure your Docker containers are running before attempting an operation.

**Notes on Architecture**

* Remote vs Local detection is handled by checking if the name includes "local" or if the IP is private (10.x.x.x)
* File transfers are done using scp or SSH + cat
* Sudo password is required only once per session and stored in memory
* Uses Git Bash's version of ssh, scp, and bash for maximum Windows compatibility