Script documentation: create\_netbox\_racks

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# Introduction

This document describes the functionality of the create\_netbox\_racks.py script. Its purpose is to collect the rack nested structures created by the create\_rack\_structures.py script in Velocity and transfer them to the Netbox platform, together with their devices.

# Prerequisites

1. The Velocity inventory should contain devices with valid Rack Number and Lab Row property values;
2. If inventory changes occur, create\_rack\_structures.py script needs to run prior to this one;
3. All Velocity rack resources need to use the template named ‘Rack’.

# Running the script

### Scheduled execution

The script is pre-configured to run nightly, and update the results automatically. No manual intervention or action is required.

### On demand execution

For the script to run successfully, it will need to have an available agent with Python execution capabilities. Verify this by going to Reports -> Velocity Agents and checking that there is an Online agent (green status) with the proper capability:

A screenshot of a computer

Description automatically generated

The following steps need to be followed in order to manually trigger a script execution:

1. Go to the Library -> Automation Assets page;
2. Search for create\_netbox\_racks in the Search box;
3. Click on the Run Automation Asset button;

Graphical user interface, text, application, email

Description automatically generated

1. Click on Run if the script should run at this moment, or modify the values in the Schedule section to schedule an execution at a specific hour or date;

Graphical user interface, text, application, email

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1. Go to the Reports -> Executions page to check the status of the script execution;
2. The execution will take approximately up to 3 or 4 minutes to finish.
3. After the execution is finished successfully, access the Netbox platform;
4. After successfully signing in, go to Organization -> Racks;

Graphical user interface

Description automatically generated

1. The same list of racks present in Velocity will be displayed in the Netbox list of racks:

Graphical user interface, application

Description automatically generated

1. Opening a rack will show its list of devices and their position in the rack:

Graphical user interface

Description automatically generated

1. Clicking on one of the devices from the rack structure will lead to the device’s page, where additional information will be displayed.

Note:

* the Racks in Netbox have the following set of custom properties:
  + Lab Row;
  + Max Installed Power;
  + Max Power Consumption;
  + PDU Reported Power;
  + Rack Number;
* the devices in Netbox have all of the other properties which can be seen in Velocity as well, except for ‘password’.