Script documentation: Rack Management runlist

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# Introduction

The Velocity platform offers the possibility to create suites of sequential testcase executions named Runlists, which can be accessed by going to Library -> Runlists. To ensure that the Netbox platform containing the racks and their devices has its inventory constantly synchronized with Velocity, a runlist named Rack Management has been created which contains all three rack related scripts:

Table

Description automatically generated with medium confidence

During the execution, the runlist will perform the following actions:

* re-organizes the devices under nested Rack and Lab Row structures in Velocity by running the create\_rack\_structures.py script;
* calculates and updates the properties related to power consumption for each rack created by the previous script by running the compute\_rack\_power.py script;
* reads the new rack structures and transfers them to the Netbox platform by running the create\_netbox\_racks.py script.

# Running the runlist

### Scheduled execution

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

### On demand execution

For the runlist 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 -> Runlists page;
2. Search for Rack Management in the Search box;
3. Click on the “Run runlist” button;

Graphical user interface, website

Description automatically generated

1. Click on Run if the runlist should run at this moment, or modify the values in the Schedule section to schedule an execution at a specific hour or date;
2. Go to the Reports -> Executions page to check the status of the script execution (make sure that the Type filter is set to Runlist in order to see the runlist executions);
3. The execution will take approximately up to 10 minutes to finish.

Note:

* the runlist is set to stop if any of the scripts are failing. If you want to modify this, then edit the runlist, go to the “Runlist Items” tab, and set the “Terminate Runlist execution if any runlist item fails” property to No, then save the modification (this will not be applied on already scheduled executions):

Graphical user interface, text, email, website

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* the script can be scheduled to run recurrently, at any given time;
* as of the moment of the testing phase, there are around 400 executions for this specific runlist scheduled to run daily, at 12 AM IST, the last one being set to run on 12th of June, 2023;
* they can be seen in the Schedule -> Scheduled Executions page;
* the runlist has been set up to run on ub-agent1 VM which has all the needed prerequisites;