



SL1 PowerFlow powerflowcontrol (pfctl) Command-Line Utility

Release Notes Version 2.7.10

Overview

The SL1 PowerFlow **powerflowcontrol** (pfctl) command-line utility version 2.7.10 includes multiple fixes and improvements for node and cluster actions. This version of the utility is included with the PowerFlow Platform version 3.1.0 release.

For more information about the commands you can run using this utility, see [Using the powerflowcontrol \(pfctl\) Command-line Utility](#).

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Features

This section covers the features that are included in the pfctl command-line utility version 2.7.10:

- Added error handling for the `set password` command to manage cases where the command is entered in an invalid format. The output will explain why the command execution failed.
- The `get_powerflow_version` node action now shows deprecation warnings if the current date has passed the End of Maintenance date, and the action fails if the current date has passed the End of Life date.

NOTE: Deprecation errors on the `get_powerflow_version_cluster` cluster action are only applied to the manager node. This function will display an error message if the PowerFlow versions are different across cluster nodes.

- Added a `delete_files` method to remove files created in the `/tmp` directory when executing node actions, cluster actions, and autocluster. This method is called within the `common_actions`, `cluster_actions`, and `autocluster` functions, passing the path of all generated files that cause conflicts when executing an action. This update helps prevent errors from leftover `/tmp` files when executing an action with sudo permissions followed by an action without sudo permissions. If you are not in the "sudoers" group, a message will display indicating that you need these permissions.
- A limit of 5 API uwsgi workers (`uwsgi-workers: 5`) is set by default when applying the "16GB Deployments" template with this pfctl version. This allows the API service to run successfully using only 1 GB of memory, as every uwsgi worker inside the API has 200 MB as a memory limit.

Issues Addressed

The following issues were addressed in this release:

- Updated the **check_dex_connectivity** node action to retrieve the host address and make an HTTP request to **https://{host_address}:5556/healthcheck**. If the request returns a non-200 status warning, the message "WARNING: The UI seems to be down" is displayed. Next, a request is made to **https://{host_address}:5556/dex/theme/styles.css** to verify Dex connectivity. This command will fail if the Dex server returns a non-200 status. (Cases: 00429729, 00448849, 00465341) (Jira ID: INT-6305)
- Added the following cluster actions to help increase and verify the heartbeat of PowerFlow Docker Swarm, which is important for deployments where network disruptions or timeouts are present:
 - **update_swarm_heartbeat_period**. Increases the PowerFlow Docker Swarm heartbeat from 5 secs to 20 seconds.
 - **check_swarm_heartbeat_period**. Checks the current heartbeat period. (Case:00404157) (Jira ID: INT-5904)

NOTE: When creating a new cluster using **autocluster**, the swarm heartbeat will be set to 20 seconds by default. This is also true when running **autoheal**.

- Updated the **check_memory_and_cpu_usage** action:
 - Renamed **check_memory_and_cpu_usage** to **check_docker_memory_and_cpu_usage**.
 - When Docker services have CPU or memory more than 95%, **check_docker_memory_and_cpu_usage** now displays a warning instead of raising an exception.
 - When **check_docker_memory_and_cpu_usage** catches an exception, it raises "EnvironmentCheckException" instead of "HealthcheckException". (Case: 00458266)
- Updated the **check_vm_tools** action to show "Skipped" instead of "Failing" if it is not possible to determine whether the host is a Vmware or AWS EC2 environment, or if determining if VM tools are installed is not possible. (Case: 00450623)
- Addressed an issue with the **check_vm_tools** action that caused "Failing" to show when checking for an AWS EC2 environment with a non-root user. (Case: 00450623)
- Addressed an issue with the **check_docker_daemon_json** action that prevented a correct check of the host running an AWS EC2 environment when running the check with a non-root user. (Case: 00450623)

TIP: To view the latest manuals for the SL1 PowerFlow Platform, see the [SL1 PowerFlow](#) page. To view the latest release notes for PowerFlow, see [SL1 PowerFlow Release Notes](#).

Known Issues

This release contains the following known issue:

- If you get the "Error: No such option: --version Did you mean --json?" error message when running the `pfctl --version` command, you might have an older version of pfctl that was installed as a different user. To resolve this, be sure to install the powerflowcontrol (pfctl) utility version 2.7.7 as root with sudo, and remove any other versions installed by other users (isadmin or ec2-user):

```
su isadmin
```

```
pip3 uninstall -y iservicecontrol
```

Installing the powerflowcontrol (pfctl) Command-Line Utility

Typically the **powerflowcontrol** (pfctl) utility is included with the latest version of the PowerFlow Platform. If you need to install a more recent, standalone version of the utility, use the following procedure.

To install the **powerflowcontrol** (pfctl) utility:

1. Go to the ScienceLogic Support site at <https://support.sciencelogic.com/s/>.
2. Click the **[Product Downloads]** tab and select *PowerFlow*. The **PowerFlow** page appears.
3. Click the link for the current release. The **Release Version** page appears.
4. In the **Release Files** section, click the link for the version of PowerFlow Control you want to download. The **Release File Details** page appears.
5. Click the **[Download File]** button to download the **.whl** file for the **powerflowcontrol** utility.
6. Using WinSCP or another file-transfer utility, copy the **.whl** file to a directory on the PowerFlow system.
7. Go to the console of the PowerFlow system or use SSH to access the PowerFlow system.
8. To install the utility, run the following command:

```
sudo pip3 install iservicecontrol-2.7.10-py3-none-any.whl
```

9. To check the version number of the utility, run the following command:

```
pip3 show iservicecontrol
```

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