SL1 PowerFlow powerflowcontrol (pfctl) Command-Line Utility

Release Notes Version 2.7.4

Overview

The SL1 PowerFlow **powerflowcontrol** (pfctl) command-line utility version 2.7.4 includes a number of new actions, including a set of cluster-actions that let you control the memory allocation of the PowerFlow nodes and ensure full replication of all services in any failover scenario. This release also includes additional updates and new node-actions and cluster-actions.

For more information about the commands you can run using this utility, see the *Using the powerflowcontrol (pfctl) Command-line Utility* chapter in the ***SL1 PowerFlow Platform*** manual (link).

> **NOTE:** The **powerflowcontrol** command-line utility was called **iservicecontrol** in previous release of PowerFlow.

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Features Included in this Release

The following features were included in this version of the **powerflowcontrol** (pfctl) command-line utility:

- Added the following cluster-actions to apply and verify 16 GB, 32 GB, and 64 GB overrides to SaaS PowerFlow systems only. These actions let you control the memory allocation of the PowerFlow nodes and ensure full replication of all services in any failover scenario. In addition, when you run these commands on a SaaS PowerFlow system, the **docker-compose.yml** file is updated with deployment configurations specific to a SaaS environment.

    - **apply_16GB_override** and **verify_16GB_override**. These settings support up to 25,000 to 30,000 devices, depending on the relationship depth of the devices.

    - **apply_32GB_override** and **verify_32GB_override**. These settings support up to approximately 70,000 devices.

    - **apply_64GB_override** and **verify_64GB_override**.

      The following command is an example of a pfctl command to apply the 32 GB override:

      ```
      pfctl --host 10.10.10.100 'isadmin:testing@is' --host
      10.10.10.102 'isadmin:testing@is' --host 10.10.10.105
      'isadmin:testing@is' cluster-action --action apply_32GB_override
      ```

- When you run the overrides listed above, the updates are applied automatically to the PowerFlow server as well as to the **docker-compose.yml** file. You do not need to redeploy the whole stack.
- Updated the **healthcheck** action to detect additional issues in the **docker-compose.yml** file, and updated the **autoheal** action to fix those issues in the the **docker-compose.yml** file.
- The **healthcheck** node-actions and cluster-actions include the following features:

    - **check_debug_run**. Checks if you have run any debug-level runs of PowerFlow applications in the past day and provides a notification if you have.
    - **check_schedule_debug_enable**. Checks if you have scheduled any debug-level runs of PowerFlow applications and provides a notification if you have.

- Added the **check_docker_service_update_status** action as a node-action or a cluster-action. This action iterates over all the running services in PowerFlow and checks the status of the Docker service after running a `docker service update` command.

- In addition, you can use the **--update-parallelism** option with the `docker service update` command to along with a value of 0, to update all Docker services at once.

  Use the following format for the `docker service update` command:

  ```
  docker service update --update-parallelism <uint>
  <configurations_to_update> <service_name>
  ```

  where `<uint>` is the number of replicas that you want to update in parallel. Use a value of 0 to update all Docker services at once. For example:

  ```
  docker service update --update-parallelism 0 iservices_
  couchbase-worker --env-add AUTO_REBALANCE=true
  ```

- Updated the **increase couchbase allocations** setting so that Couchbase will not increase the memory if the memory has been increased already. You can check the value of the memory allocation on the **[Settings]** tab of the Couchbase user interface at ***https://<IP of PowerFlow>:8091***.

TIP: To view release notes and manuals for all versions of the SL1 PowerFlow Platform, see SL1 PowerFlow Platform Documentation. To view release notes and manuals for PowerFlow Synchronization PowerPacks, see SL1 Workflow Automation PowerPack Documentation.

Known Issues

This release does not contain any known issues.

Installing the powerflowcontrol (pfctl) Command-Line Utility

To locate and download 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-2.7.4-py3-none-any.whl
```

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

```
pip3 show iservicecontrol
```

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