

IBM PureData for Operational Analytics pflayer

Command Line Documentation

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Introduction:

IBM PureData System for Operational Analytics as shipped to all customers on all versions included a web-based administration console. The console is described in the knowledge center at the following [link](#).

As part of the fixpacks released in September, 2018 the console is to be removed as part of the last steps of the fixpack. While the console is removed there are layers of the console that remain behind to provide some important appliance features.

The layer that is left is referred to as the pplayer. This document describes the command line commands that continue to be part of the appliance after the web based console is removed. These commands were previously undocumented in the knowledge center.

Discontinued mi* commands and their replacements.

mi* command	Pfplayer Command
miauth	appl_conf
miinfo	appl_ls_hw & appl_ls_sw
mistart, mistop, mistatus	N/A
miupdate	See Readme for FP2_FP6 levels and higher for more information about changes related how updates are applied.

appl_ls_hw command:

This command displays information about hardware resources in PDOA setup. Using various keys and option command shows detailed information about resources along with status. Where status checks hardware resources reachability and SSH configuration. Valid attribute keys per resource can be displayed using “-v” option. Valid resources types are “san,net,hmc,server_os,server_fsp and storage”. Only one resource type can be used at a time.

Usage:

```
$ appl_ls_hw -help
Display information about the hardware resources in the setup.If no arguments are specified, then information is displayed about the entire configuration.
Usage:
```

```
appl_ls_hw [-v|[-A <key_1,key_2,...key_n> [-f <field separator>]]] [-d] [-C | -F | -M | -H] [-h|-help]

appl_ls_hw -l <resource name> [-v] [-d] [-C | -F | -M | -H] [-h|-help]
appl_ls_hw -r <resource type> [-v] [-d] [-C | -F | -M | -H] [-h|-help]
appl_ls_hw -m <module> [-v] [-d] [-C | -F | -M | -H] [-h|-help]
appl_ls_hw -s <sub-module> [-v] [-d] [-C | -F | -M | -H] [-h|-help]
appl_ls_hw -i <IP address or host name> [-v] [-d] [-h|-help]

appl_ls_hw -l <resource name> [-A <key_1,key_2,...key_n> [-f <field separator>]] [-d] [-C | -F | -M | -H] [-h|-help]
appl_ls_hw -r <resource type> [-A <key_1,key_2,...key_n> [-f <field separator>]] [-d] [-C | -F | -M | -H] [-h|-help]
appl_ls_hw -m <module> [-A <key_1,key_2,...key_n> [-f <field separator>]] [-d] [-C | -F | -M | -H] [-h|-help]
appl_ls_hw -s <sub-module> [-A <key_1,key_2,...key_n> [-f <field separator>]] [-d] [-C | -F | -M | -H] [-h|-help]
appl_ls_hw -i <IP address or host name> [-A <key_1,key_2,...key_n> [-f <field separator>]] [-d] [-h|-help]
```

Options:

```
-l <resource name>          : Display information of the resource with the specified resource name.
-r <resource type>         : Display information of all the resources with the specified resource type.
-m <module>                : Display information of all the resources with the specified module type.
-s <sub-module>            : Display information of all the resources with the specified sub module type.
-i <IP address or host name> : Display information of the resource with the specified IP address or host name.
-v                          : Provides output in a raw format.
-A <key_1,key_2,...key_n> : Displays supplied attribute information in a comma separated format.
-f <field separator>       : The attribute field separator for the -A option, if not specified comma(,) is used
-d                          : Displays information of additional sub resources, such as adapters.
-C                          : Display corporate network information.
-F                          : Display FCM network information.
-M                          : Display management network information.
-H                          : Display HMC private network information.
-h|-help                  : help
```

Examples :

Displays Status of all resources :

```
$ appl_ls_hw
NAME          HOSTNAME          IP          MODULE          STATUS          DESCRIPTION
server0       kf5hostname05corp    9.114.12.242 Data            Online          IBM Power Express Operating System
server1       kf5hostname03corp    9.114.12.240 Foundation      Online          IBM Power Express Operating System
server2       kf5hostname07corp    9.114.12.246 Data            Online          IBM Power Express Operating System
server3       kf5hostname02corp    9.114.12.239 Foundation      Online          IBM Power Express Operating System
server4       kf5hostname04corp    9.114.12.241 Foundation      Online          IBM Power Express Operating System
server5       kf5hostname06corp    9.114.12.245 Data            Online          IBM Power Express Operating System
server6       kf5hostname01corp    9.114.12.238 Foundation      Online          IBM Power Express Operating System
server_fsp0   -                    -              Online          IBM Power 810 Express CEC
server_fsp1   -                    -              Online          IBM Power 810 Express CEC
server_fsp2   -                    -              Online          IBM Power 810 Express CEC
server_fsp3   -                    -              Online          IBM Power 810 Express CEC
server_fsp4   -                    -              Online          IBM Power 810 Express CEC
hmc0          -                    9.114.12.236 IBM Hardware Management Console
hmc1          -                    9.114.12.237 IBM Hardware Management Console
storage0      -                    -              Online          IBM Storwize V7000 FAB-1 Storage
storage1      -                    -              Online          IBM FlashSystem 900 Storage
storage2      -                    -              Online          IBM Storwize V7000 FAB-1 Storage
storage3      -                    -              Online          IBM FlashSystem 900 Storage
storage4      -                    -              Online          IBM Storwize V7000 FAB-1 Storage
storage5      -                    -              Online          IBM FlashSystem 900 Storage
san0          -                    -              Online          IBM System Storage Switch
san1          -                    -              Online          IBM System Storage Switch
san2          -                    -              Online          IBM System Storage Switch
san3          -                    -              Online          IBM System Storage Switch
net0          -                    -              Online          IBM System Networking RackSwitch
net1          -                    -              Online          IBM System Networking RackSwitch
net2          -                    -              Online          IBM System Networking RackSwitch
net3          -                    -              Online          IBM System Networking RackSwitch
```

Example to display resources type:

```
$ appl_ls_hw -M -r san
NAME          HOSTNAME          IP          MODULE          STATUS          DESCRIPTION
san0          san_switch1       172.23.1.161 Online          IBM System Storage Switch
san1          san_switch2       172.23.1.162 Online          IBM System Storage Switch
san2          san_switch3       172.23.1.163 Online          IBM System Storage Switch
san3          san_switch4       172.23.1.164 Online          IBM System Storage Switch
```

Verbose display shows all attributes:

```
$ appl_ls_hw -l storage0 -v
Storage_Frame_Record:
Logical_name=storage0
Logical_name_prefix=storage
Resource_type=storage
Description=IBM Storwize V7000 FAB-1 Storage
Module_type=Foundation
Sub_module_type=Infrastructure
Status=Online
M_Hostname=V7_00
M_IP_address=172.23.1.204
M_DNS=
M_Netmask=255.255.255.0
M_Domain=
M_Gateway=172.23.1.245
Director_handle=N-A
Solution_level=4.0.5.0
FW_level=7.5.0.13
Manufacturer=IBM
Model=524
Machine_type=2076
Serial_number=78209PX
N_controllers=0
N_ports_per_controller=0
N_channels=0
N_ports_per_channel=0
CHNL_WWPNs=
Standby=
AccessState=Unlocked
```

Specified attribute display:

```
$ appl_ls_hw -r storage -A M_IP_address,Logical_name,Model,FW_level
"172.23.1.204","storage0","524","7.5.0.13"
"172.23.1.205","storage1","AE2","1.4.7.1"
"172.23.1.206","storage2","524","7.5.0.13"
"172.23.1.207","storage3","AE2","1.4.7.1"
"172.23.1.208","storage4","524","7.5.0.13"
"172.23.1.209","storage5","AE2","1.4.7.1"
```

appl_conf :

The password for the following users can be changed by using the appl_conf command:

- root: root user
- bcuaix: core warehouse instance owner and database administrator
- db2opm: database performance monitor database user
- db2psc: system console database user

Passwords that are managed by the appl_conf command cannot be greater than 20 characters in length.
The resource where password change is attempted should be online

Usage:

```
$ appl_conf -help
Orchestrates the password change for Admin and App users associated with specified hardware resource.
Usage:
    appl_conf chpw -l <resource logical name> -u <user name> -p [<new password>] [-o <old password>] [-cross] [-h|-help]
    appl_conf chpw -r <resource type> -u <user name> -p [<new password>] [-o <old password>] [-h|-help]
    appl_conf [-h|-help]                : help

Options

    chpw                : Command name. Needs to be mentioned without hyphen(-).
    -l logical name     : The logical Name of the hardware resource.
    -r resource type    : The resource type ( for hardware resources of same type)
    -u user name        : The user name associated with the hardware resource.
    -p new password     : The new password. If -p is mentioned but password is not provided then user will be prompted to enter
the password
    -o old password     : The old password. It is an optional parameter. But it must be specified if the password stored in the
internal database is incorrect.
    -cross              : Use this flag to force password change across all applicable nodes.
                        not applicable with -r option
    -help              : help
```

-help

This option displays help for the command.

User name associated with hardware. Supported user name per hardware as below :

San Switch : admin

Net switch : admin

Storage : superuser

Hmc : hscroot

AIX Server : root, bcuaix, db2opm, db2psc

If not provided command will use old password from database. For BNT switch if current password is not correct in database it is must to provide old password with command.

In case while database password is not in sync, appl_conf will get database in sync while provided password as new password with command.

Examples :

```
$ appl_conf chpw -l server1 -u root -p
Enter the new password
Changing the password for user 'root' on resource 'server1'.
-----
SCHEMA::CHPW::LOGICAL_NAME::STATUS (PASS/FAIL)
CHPW::server1::FAIL::Change_passwd Password change failed for resource(s) 172.23.1.3.
-----

$ appl_conf chpw -l server1 -u root -p
Enter the new password
Changing the password for user 'root' on resource 'server1'.
The password change was successful for the user 'root' on resource 'server1'.
Updating the password in the database for user root.
The password was successfully updated in the database.
-----
SCHEMA::CHPW::LOGICAL_NAME::STATUS (PASS/FAIL)
CHPW::server1::PASS::The password change for 172.23.1.3 was successful.
-----

$ appl_conf chpw -r san -u admin -p
Enter the new password
Updating the password in the database for user admin.
The password was successfully updated in the database.
Updating the password in the database for user admin.
The password was successfully updated in the database.
Updating the password in the database for user admin.
```

```
The password was successfully updated in the database.
Updating the password in the database for user admin.
The password was successfully updated in the database.
-----
SCHEMA::CHPW::LOGICAL_NAME::STATUS (PASS/FAIL)
CHPW::san0::PASS::The password change for 172.23.1.161 was successful.
CHPW::san1::PASS::The password change for 172.23.1.162 was successful.
CHPW::san2::PASS::The password change for 172.23.1.163 was successful.
CHPW::san3::PASS::The password change for 172.23.1.164 was successful.
-----
```

appl_ls_cat command :

This command displays PDOA registered update images. Command also display product level information which used with various option.

Usage:

```
$ appl_ls_cat -help
Lists the registered IBM PureData System for Operational Analytics update images.
Usage:
  appl_ls_cat -active [-v] [-h|-help]
  appl_ls_cat -i [-v] [-h|-help]
  appl_ls_cat -l <BW release name> [{ -m | -f | -x}] [-v] [-h|-help]
  appl_ls_cat -l <BW module name> [-v] [-h|-help]
  appl_ls_cat -l <BW fix pack name> [-v] [-h|-help]
  appl_ls_cat -l <BW fix name> [-v] [-h|-help]
  appl_ls_cat [-h|-help]

Options:
  -active          : Display the active release(s) in the update catalog.
  -i               : Display the latest installed BW release information.
  -l               : Display the information for all the registered BW releases/fix-packs/fixes.
  -f <bwh level>   : Display the information of BW fix packs and fixes for a specific release.
  -m <bwh level>   : Display the information for the modules within a particular release.
  -x <bwh level>   : Display the information for the firmware within a particular release.
  -v               : Display the information in raw format.
  -h|-help        : help
```

Examples:

List all the registered update image:

```
$ appl_ls_cat
NAME                                VERSION                                STATUS                                DESCRIPTION
bwr0                                4.0.4.2                                Committed                             Updates for
IBM_PureData_System_for_Operational_Analytics
bwr1                                4.0.5.0                                Committed                             Updates for
IBM_PureData_System_for_Operational_Analytics_DB2105
```

List the details of specific update image:

```
$ appl_ls_cat -l bwr0
NAME                                VERSION                                STATUS                                OPERATION                                DESCRIPTION
opm0                                5.3.1.0.8402                            Committed                             install                                OPM
was0                                8.5.5.5                                Committed                             install                                WebSphere_Application_Server
mi0                                  3.0.4.0                                Committed                             install                                MI
tsa0                                4.1.0.1                                Committed                             install
Tivoli_Systems_Automation_for_Multi-Platforms_Update_3.2.2.7
ha_db20                             2.0.0.3                                Committed                             install                                IBM_Smart_Analytics_HA_toolkit
db20                                10.5.0.5..0                            Committed                             install                                DB2_Enterprise_Edition
isw0                                10.5.0.20141125_10.5.0.5..0            Committed                             install                                InfoSphere_Warehouse
pplayer0                             4.0.4.2                                Committed                             install
IBM_Smart_Analytics_Platform_Layer
pfmgt0                               4.0.4.0                                Committed                             install
IBM_Smart_Analytics_Platform_Management
director0                             6.3.5.0                                Committed                             uninstall                             DirectorServer_Update
aix0                                  7100-03-04-1441                            Committed                             install                                AIX_Update
hmc0                                  8.8.4.0.1                                Committed                             install                                HMC_Update
pfw0                                  SV810_108                                Committed                             install                                PFW_Update
fcadapterfw0                         202307                                    Committed                             install                                FCAdapterFW_5273_Update
fcadapterfw1                         0320051000                               Committed                             install                                FCAdapterFW_EN0Y_Update
netadapterfw0                        04004018000007                           Committed                             install                                NetAdapterFW_1648_Update
gpfs0                                4.1.0.6                                    Committed                             install                                GPFS
netadapterfw1                        30100150                               Committed                             install                                NetAdapterFW_EN0S_Update
netadapterfw2                        10090180                               Committed                             install                                NetAdapterFW_5899_Update
cas0                                  6.3.3.0                                    Committed                             uninstall                             CAS_Update
isw1                                  10.5.0.20141125_10.5.0.5..0            Committed                             install                                InfoSphere_Warehouse
storagefw0                           7.3.0.12                                Committed                             install                                StorageFW_Update
storagefw1                           1.4.0.8                                    Committed                             install                                StorageFW_Update
sanfw0                                v7.2.1d                                    Committed                             install                                SANFW_Update
netfw0                                7.9.12.0                                    Committed                             install                                NetFW_Update
netfw1                                7.9.11.0                                    Committed                             install                                NetFW_Update
```

appl_ls_sw command:

This command shows software level, compliance and other details of resources. Higher and lower compliance indicate about current level of software is higher or lower than what registered with latest committed update image.

Usage:

```
$ appl_ls_sw -help
Lists the software details of resources, in the setup.
Usage:
    appl_ls_sw -l <logical name> [-c|-v] [-h|-help]
    appl_ls_sw [-h|-help]

Options:
    -l <logical name> : Shows the software and firmware inventory for the specified resource.
    -c                 : Determine the product compliance for the prescribed solution level, for the specified resource.
Displays only the products that were found to be out of compliance.
    -v                 : Display the output in raw format
    -h|-help          : help
```

Examples:

Listing software detail of a server:

```
$ appl_ls_sw -l server0
```

NAME	VERSION
AIX	7100-03-07-1614
DB2	10.5.0.8..0
GPFS	4.2.1.0
HA_DB2	2.0.5.0
ISW	10.5.0.20151117
OQWT	41
TSA	4.1.0.3

Listing compliance of the server:

```
$ appl isw -l server0 -c
```

NAME	VERSION	COMPLIANCE-STATE
AIX	7100-05-01-1731	Higher
DB2	11.1.3.3.b.0	Higher
GPFS	4.2.3.7	Higher
ISW	10.5.0.20151104_11.1.3.3.b.0	Lower
QOWT	NA	NA
TSA	4.1.0.4	Higher

appl_start command:

appl_start command starts resources or software's on servers. This command will attempt to power on offline resources. If server status is on this command will start software's on servers.

Usage:

```
$ appl_start -help
Supports the power on operation for resources, in the setup.
Usage:
    appl_start [-l <resource name> [-h] | -m <module> [-h] | -r <resource type> [-h] | -s <sub-module> [-h]] [-i] [-h] [-g]

Options:
    -l <resource name>          : Apply the start or inventory operation on the specified logical resource name <resource name>.
    -m <module>                 : Apply the start or inventory operation on all the server resources in the module specified in
    <module>.
    -s <sub-module>             : Apply the start or inventory operation on all the server resources in the sub module specified
    in <sub module type>.
    -r <resource type>          : Apply the start or inventory operation on all the resources in the resource class specified in
    <resource type>.
    -i                           : Collects the resource inventory.
    -g                           : Start only GPFS on all the resources in the resource class or submodule or module or resource
    name specified with
    -h                           : help
```

Examples:

Starts Appliance:

```
$ appl_start
Starting the product 'GPFS' on nodes '172.23.1.1 172.23.1.3'
Started the product 'GPFS' on nodes '172.23.1.1 172.23.1.3'
Starting the product 'TSA' on nodes '172.23.1.1 172.23.1.3'
Started the product 'TSA' on nodes '172.23.1.1 172.23.1.3'
Starting the product 'DB2' on nodes '172.23.1.1 172.23.1.3'
Started the product 'DB2' on nodes '172.23.1.1 172.23.1.3'
Starting the product 'HA_ISW' on nodes '172.23.1.1 172.23.1.3'
Started the product 'HA_ISW' on nodes '172.23.1.1 172.23.1.3'
Starting the product 'HA_DB2' on nodes '172.23.1.3 172.23.1.1'
Started the product 'HA_DB2' on nodes '172.23.1.3 172.23.1.1'
Starting the product 'OPM' on nodes '172.23.1.3 172.23.1.1'
Started the product 'OPM' on nodes '172.23.1.3 172.23.1.1'
Starting the product 'WAS' on nodes '172.23.1.3 172.23.1.1'
Started the product 'WAS' on nodes '172.23.1.3 172.23.1.1'
Starting the product 'ISW' on nodes '172.23.1.3 172.23.1.1'
Started the product 'ISW' on nodes '172.23.1.3 172.23.1.1'
NAME                HOSTNAME      IP          MODULE      STATUS      DESCRIPTION
server0              kf5hostname05corp  9.114.12.242 Data         Online       IBM Power Express Operating System
server1              kf5hostname03corp  9.114.12.240 Foundation   Online       IBM Power Express Operating System
server2              kf5hostname07corp  9.114.12.246 Data         Online       IBM Power Express Operating System
server3              kf5hostname02corp  9.114.12.239 Foundation   Online       IBM Power Express Operating System
server4              kf5hostname04corp  9.114.12.241 Foundation   Online       IBM Power Express Operating System
server5              kf5hostname06corp  9.114.12.245 Data         Online       IBM Power Express Operating System
server6              kf5hostname01corp  9.114.12.238 Foundation   Online       IBM Power Express Operating System
server_fsp0          -                -            -            Online       IBM Power 810 Express CEC
server_fsp1          -                -            -            Online       IBM Power 810 Express CEC
server_fsp2          -                -            -            Online       IBM Power 810 Express CEC
server_fsp3          -                -            -            Online       IBM Power 810 Express CEC
server_fsp4          -                -            -            Online       IBM Power 810 Express CEC
hmc0                 9.114.12.236     Online       IBM Hardware Management Console
hmc1                 9.114.12.237     Online       IBM Hardware Management Console
storage0             -                -            Online       IBM Storwize V7000 FAB-1 Storage
storage1             -                -            Online       IBM FlashSystem 900 Storage
storage2             -                -            Online       IBM Storwize V7000 FAB-1 Storage
storage3             -                -            Online       IBM FlashSystem 900 Storage
storage4             -                -            Online       IBM Storwize V7000 FAB-1 Storage
storage5             -                -            Online       IBM FlashSystem 900 Storage
san0                 -                -            Online       IBM System Storage Switch
san1                 -                -            Online       IBM System Storage Switch
san2                 -                -            Online       IBM System Storage Switch
san3                 -                -            Online       IBM System Storage Switch
net0                 -                -            Online       IBM System Networking RackSwitch
net1                 -                -            Online       IBM System Networking RackSwitch
net2                 -                -            Online       IBM System Networking RackSwitch
net3                 -                -            Online       IBM System Networking RackSwitch
```

Start server resource type:

```
$ appl_start -r server_os
Starting the product 'GPFS' on nodes '172.23.1.1 172.23.1.3'
Started the product 'GPFS' on nodes '172.23.1.1 172.23.1.3'
Starting the product 'TSA' on nodes '172.23.1.1 172.23.1.3'
Started the product 'TSA' on nodes '172.23.1.1 172.23.1.3'
Starting the product 'DB2' on nodes '172.23.1.1 172.23.1.3'
Started the product 'DB2' on nodes '172.23.1.1 172.23.1.3'
Starting the product 'HA_ISW' on nodes '172.23.1.1 172.23.1.3'
Started the product 'HA_ISW' on nodes '172.23.1.1 172.23.1.3'
Starting the product 'HA_DB2' on nodes '172.23.1.3 172.23.1.1'
Started the product 'HA_DB2' on nodes '172.23.1.3 172.23.1.1'
Starting the product 'OPM' on nodes '172.23.1.3 172.23.1.1'
Started the product 'OPM' on nodes '172.23.1.3 172.23.1.1'
Starting the product 'WAS' on nodes '172.23.1.3 172.23.1.1'
Started the product 'WAS' on nodes '172.23.1.3 172.23.1.1'
```

Starting the product 'ISW' on nodes '172.23.1.3 172.23.1.1'
 Started the product 'ISW' on nodes '172.23.1.3 172.23.1.1'
 Starting the product 'GPFS' on nodes '172.23.1.7 172.23.1.2 172.23.1.5 172.23.1.6 172.23.1.4'
 Started the product 'GPFS' on nodes '172.23.1.7 172.23.1.2 172.23.1.5 172.23.1.6 172.23.1.4'
 Starting the product 'TSA' on nodes '172.23.1.5 172.23.1.6 172.23.1.4 172.23.1.7 172.23.1.2'
 Started the product 'TSA' on nodes '172.23.1.5 172.23.1.6 172.23.1.4 172.23.1.7 172.23.1.2'
 Starting the product 'DB2' on nodes '172.23.1.7 172.23.1.4 172.23.1.5 172.23.1.6 172.23.1.2'
 Started the product 'DB2' on nodes '172.23.1.7 172.23.1.4 172.23.1.5 172.23.1.6 172.23.1.2'
 Starting the product 'HA_DB2' on nodes '172.23.1.2 172.23.1.7 172.23.1.4 172.23.1.5 172.23.1.6'
 Started the product 'HA_DB2' on nodes '172.23.1.2 172.23.1.7 172.23.1.4 172.23.1.5 172.23.1.6'
 Starting the product 'ISW' on nodes '172.23.1.2 172.23.1.5 172.23.1.6 172.23.1.4 172.23.1.7'
 Started the product 'ISW' on nodes '172.23.1.2 172.23.1.5 172.23.1.6 172.23.1.4 172.23.1.7'

NAME	HOSTNAME	IP	MODULE	STATUS	DESCRIPTION
server0	kf5hostname05corp	9.114.12.242	Data	Online	IBM Power Express Operating System
server1	kf5hostname03corp	9.114.12.240	Foundation	Online	IBM Power Express Operating System
server2	kf5hostname07corp	9.114.12.246	Data	Online	IBM Power Express Operating System
server3	kf5hostname02corp	9.114.12.239	Foundation	Online	IBM Power Express Operating System
server4	kf5hostname04corp	9.114.12.241	Foundation	Online	IBM Power Express Operating System
server5	kf5hostname06corp	9.114.12.245	Data	Online	IBM Power Express Operating System
server6	kf5hostname01corp	9.114.12.238	Foundation	Online	IBM Power Express Operating System

appl_stop command:

This command can be used for resource restart, stop and software service stop on servers.

Usage :

```
$ appl_stop -h
Supports the power off operation for resources, in the setup.
Usage:
    appl_stop [-l <resource name> [-h] | -m <module> [-h] | -r <resource type> [-h] | -s <sub-module> [-h]] [-q | -f | -R ]
    [-g] [-h]

Options:
    -l <resource name>      : Apply the stop, reboot, or quiesce operation on the specified logical resource name <resource
name>
    -m <module>             : Apply the stop, reboot, or quiesce operation on all the server resources in the module specified
in <module>.
    -r <resource type>      : Apply the stop, reboot, or quiesce operation on all the resources in the resource class specified
in <resource type>.
    -s <sub-module>         : Apply the stop, reboot, or quiesce operation on all the resources in the sub module specified in
<sub module type>.
    -q                     : Quiesce the server(s)
    -f                     : Forces the power off
    -R                     : Reboot the resource(s)
    -g                     : stops GPFS on all the resources in the resource class or submodule or module or resource name
specified with
    -h                     : help
```

Examples:

Command to quiesce all software services

```
$ appl_stop -q
Stopping the product 'ISW' on nodes '172.23.1.2 172.23.1.5 172.23.1.6 172.23.1.4 172.23.1.7'.
Stopped the product 'ISW' on nodes '172.23.1.2 172.23.1.5 172.23.1.6 172.23.1.4 172.23.1.7'.
Stopping the product 'HA_DB2' on nodes '172.23.1.2 172.23.1.7 172.23.1.4 172.23.1.5 172.23.1.6'.
Stopped the product 'HA_DB2' on nodes '172.23.1.2 172.23.1.7 172.23.1.4 172.23.1.5 172.23.1.6'.
Stopping the product 'DB2' on nodes '172.23.1.7 172.23.1.4 172.23.1.5 172.23.1.6 172.23.1.2'.
Stopped the product 'DB2' on nodes '172.23.1.7 172.23.1.4 172.23.1.5 172.23.1.6 172.23.1.2'.
Stopping the product 'TSA' on nodes '172.23.1.5 172.23.1.6 172.23.1.4 172.23.1.7 172.23.1.2'.
Stopped the product 'TSA' on nodes '172.23.1.5 172.23.1.6 172.23.1.4 172.23.1.7 172.23.1.2'.

NAME          HOSTNAME          IP          MODULE          STATUS          DESCRIPTION
server0       kf5hostname05corp  9.114.12.242 Data            Online          IBM Power Express Operating System
server1       kf5hostname03corp  9.114.12.240 Foundation      Online          IBM Power Express Operating System
server2       kf5hostname07corp  9.114.12.246 Data            Online          IBM Power Express Operating System
server3       kf5hostname02corp  9.114.12.239 Foundation      Online          IBM Power Express Operating System
server4       kf5hostname04corp  9.114.12.241 Foundation      Online          IBM Power Express Operating System
server5       kf5hostname06corp  9.114.12.245 Data            Online          IBM Power Express Operating System
server6       kf5hostname01corp  9.114.12.238 Foundation      Online          IBM Power Express Operating System
server_fsp0   -                  -              Online          IBM Power 810 Express CEC
server_fsp1   -                  -              Online          IBM Power 810 Express CEC
server_fsp2   -                  -              Online          IBM Power 810 Express CEC
server_fsp3   -                  -              Online          IBM Power 810 Express CEC
server_fsp4   -                  -              Online          IBM Power 810 Express CEC
hmc0          9.114.12.236      Online          IBM Hardware Management Console
hmc1          9.114.12.237      Online          IBM Hardware Management Console
storage0      -                  -              Online          IBM Storwize V7000 FAB-1 Storage
storage1      -                  -              Online          IBM FlashSystem 900 Storage
storage2      -                  -              Online          IBM Storwize V7000 FAB-1 Storage
storage3      -                  -              Online          IBM FlashSystem 900 Storage
storage4      -                  -              Online          IBM Storwize V7000 FAB-1 Storage
storage5      -                  -              Online          IBM FlashSystem 900 Storage
san0          -                  -              Online          IBM System Storage Switch
san1          -                  -              Online          IBM System Storage Switch
san2          -                  -              Online          IBM System Storage Switch
san3          -                  -              Online          IBM System Storage Switch
net0          -                  -              Online          IBM System Networking RackSwitch
net1          -                  -              Online          IBM System Networking RackSwitch
net2          -                  -              Online          IBM System Networking RackSwitch
net3          -                  -              Online          IBM System Networking RackSwitch
```

Rebooting server:

```
$ appl_stop -l server0 -R
Checking the status for the resource 'server0'.
Restarting the resource, 'server0'. This may take long time.
The restart operation is successful for the server server0.
Retrieving and updating the status in the database for 'server0'.
Retrieving and updating the child node(s) status in the database for 'server0'.

NAME          HOSTNAME          IP          MODULE          STATUS          DESCRIPTION
server0       kf5hostname05corp  9.114.12.242 Data            Online          IBM Power Express Operating System
```

validate_passwords command:

This command checks and displays if passwords stored in PDOA data are still valid. Passwordless SSH or SSH configuration should be proper to let this command work properly. Sometime even if password is correct but ssh does not work properly this command shows password status as NA.

Usage:

```
$ validate_passwords -h
```

usage:

```
validate_passwords [-h ]
validate_passwords -a [-l]
validate_passwords -i <ip_address> -t <type> [-l]
```

Options:

```
-h          : Print Usage message.
-a          : Validates all resources passwords
-l          : Display report
-i          : Validate for given ip address
-t          : [hmc | server_os | net| san]
```

Example:

```
$ validate_passwords -a -l
NAME                IP ADDRESS      PASSWORD_STATUS  DESCRIPTION
hmc0                172.23.1.245    IN_SYNC          Password is correct
hmc1                172.23.1.246    IN_SYNC          Password is correct
server6            172.23.1.1      IN_SYNC          Password is correct
server3            172.23.1.2      IN_SYNC          Password is correct
server5            172.23.1.6      IN_SYNC          Password is correct
server2            172.23.1.7      IN_SYNC          Password is correct
server1            172.23.1.3      IN_SYNC          Password is correct
server0            172.23.1.5      IN_SYNC          Password is correct
server4            172.23.1.4      IN_SYNC          Password is correct
net3               172.23.1.251    IN_SYNC          Password is correct
net1               172.23.1.253    IN_SYNC          Password is correct
net0               172.23.1.254    IN_SYNC          Password is correct
net2               172.23.1.252    IN_SYNC          Password is correct
san0               172.23.1.161    IN_SYNC          Password is correct
san2               172.23.1.163    IN_SYNC          Password is correct
san3               172.23.1.164    IN_SYNC          Password is correct
san1               172.23.1.162    IN_SYNC          Password is correct
storage1           172.23.1.205    IN_SYNC          Password is correct
storage2           172.23.1.206    IN_SYNC          Password is correct
storage4           172.23.1.208    IN_SYNC          Password is correct
storage3           172.23.1.207    IN_SYNC          Password is correct
storage5           172.23.1.209    IN_SYNC          Password is correct
storage0           172.23.1.204    IN_SYNC          Password is correct
```