

Altair Access 2020.4

Command Line Interface Guide

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Latest features available with Altair $\mathsf{Access}^{^\mathsf{m}}$ Command Line Interface.

There are no new features in this release.

Use the Command Line Interface for job submission and monitoring, file operations, and managing servers.

This chapter covers the following:

- 2.1 Document Conventions (p. 12)
- 2.2 Prerequisites (p. 13)
- 2.3 Command Line Interface Path (p. 14)
- 2.4 Commands Quick Reference (p. 15)

The Access Command Line Interface (CLI) allows users to access the power of PBS Professional from the command-line without using a graphical user interface, while leveraging the capabilities of Access and application definitions. The CLI is available with Access 2020.4 and later releases.

A variety of commands are available to assist user's with job submission and monitoring activities, as well as file operations. Additionally, server and administrative commands are available.

2.1 Document Conventions

Common typographical conventions for Altair Access Command Line Interface[™] technical publications.

PA_HOME

The Access Command Line Interface home directory which contains configuration, data, and logging files. Default location is:

- on Linux: /var/spool/pbsworks/2020.4/access/home
- on Windows Docker: /opt/altair/access/home

However, this can be overridden during the installation of Access Command Line Interface.

PA EXEC

The Access Command Line Interface execution directory which contains binaries and scripts. Default location is:

- on Linux: /opt/altair/pbsworks/2020.4/access/exec
- on Windows Docker: /opt/altair/access/exec

However, this can be overridden during the installation of Access Command Line Interface.

PBS HOME

The location where the PBS Professional daemon/service configuration files, accounting logs, etc. are installed. Default is:

/var/spool/pbs

PBS EXEC

The location where the PBS Professional executable programs are installed. Default is:

/opt/pbs/

PAS_HOME

The Windows PAS home directory which contains configuration, data, and logging files. Default location is: C:\Program Files\altair\pas\2020.4\PAS\home, however this can be overridden during the installation of PAS on Windows.

PAS EXEC

The Windows PAS execution directory which contains binaries and scripts. Default location is: C:\Program Files\altair\pas\2020.4\PAS\exec, however this can be overridden during the installation of PAS on Windows.



2.2 Prerequisites

Prerequisites and planning to run Command Line Interface.

Access Desktop

Before you can use the CLI to submit and monitor jobs, administer a cluster, or manage files you must establish a connection to an HPC cluster. Establish the connection by using the Access user interface or by issuing the pas-add-server command. The first cluster that is registered is considered the default server. Any CLI commands issued after adding the cluster, are made against this cluster unless otherwise explicitly specified. Most commands provide an option to specify a non-default server.

- · Access Desktop must be installed and running.
- A connection to an HPC cluster must be established by registering the cluster via Access Desktop or by using the pas-server-add command.
- The first time a CLI command is issued after installation, you will be asked for your credentials. You can use the pas-passwd command to set the password credentials.
- Users of the CLI will need to add the path to the CLI to their search path.

Access Web

- · Access Web must be installed and running.
- A connection to an HPC cluster must be established by registering the cluster via Access Web UI or by using the pas-server-add command.
- The first time a CLI command is issued after installation, you will be asked for your credentials. You can use the pas-passwd command to set the password credentials.
- Users of the CLI will need to add the path to the CLI to their search path.



2.3 Command Line Interface Path

Default location of Command Line Interface path.

Access Desktop

C:\Users\<user name>\AppData\Local\Altair\Altair Access\2020.4\exec\bin\commandline\

Access Web

/opt/altair/pbsworks/2020.4/access/exec/bin/commandline/



2.4 Commands Quick Reference

List of access commands.

The following is a list of all commands and a link to each of the commands.

Table 1: Administration Commands

Command	Description
pas-ping	Checks if the server is up or down.
pas-getsrv	Displays information about the server.
pas-ver	Displays server version and build information.
pas-server-add	Add a server in the Access Desktop application.
pas-server-list	Deletes a server from the Access Desktop application.
pas-server-delete	Returns a list of all the server added in the Access Desktop application.
pas-admin	Determines if the user has administrative privileges on the server.
pas-getsroot	Returns the root directory of the staging area on the server.
pas-passwd	Set the user's password.

Table 2: Job Submission and Monitoring Commands

Command	Description
pas-getapps	Returns a list of all applications known to the server.
pas-getapp	Returns a list of all parameters available for the specified application as defined by the application definition on the server.
pas-submit	Submits a job to the server.
pas-stat	Displays the status of a job. You can display the status of a particular job or the status of all jobs.
pas-sum	Displays a summary of the job information. You can displays a summary of job information for a specific job, or all jobs on the server.



Command	Description
pas-getres	Downloads the files related to the given job identifier.
pas-del	Deletes a job from the Workload Management System.
pas-custom-action-list	Get a list of available custom action of a job.
pas-execute-custom-action	Execute a custom action for a job.

Table 3: File Management Commands

Command	Description
pas-fmkdir	Creates a directory on the server.
pas-fup	Uploads a file.
pas-fdown	Downloads a file.
pas-fdel	Deletes a file from the server.
pas-fcompr	Compresses a file on the server.
pas-flist	Displays a list of files on the server.



Administration Commands

Commands to help with the administrative tasks.

This chapter covers the following:

- 3.1 Determine if Server is Up and Running (p. 18)
- 3.2 Get Server Information (p. 20)
- 3.3 Get Server Version and Build Information (p. 21)
- 3.4 Add a Server (p. 23)
- 3.5 List Servers (p. 26)
- 3.6 Delete a Server (p. 28)
- 3.7 Determine if a User is an Administrator (p. 29)
- 3.8 Getting the Staging Area Root Directory (p. 30)
- 3.9 Set the User's Password (p. 31)

All commands will connect to the first server (cluster) registered after installation (this server is considered the default server). Most commands provide an option to specify a non-default PAS server.

3.1 Determine if Server is Up and Running

Check if the PAS server (cluster) is up or down.

Name

pas-ping

Description

Use the pas-ping command to check if the PAS server (cluster) is up or down. This command will return a message indicating the status of the server:

PAS server at machine name is up/down.

Syntax

pas-ping [options]

Options

-h

Display help for the command.

-s SERVERNAME

Ping the PAS server specified by SERVERNAME. SERVERNAME is the name of server (cluster) provided while adding the server (cluster) using Access. If this option is not specified, then the default PAS server will be pinged.



Note: The -s SERVERNAME option is not supported for Access Desktop.

-F JSON

Print the output format in JSON.

Command Examples

Ping the default PAS server

pas-ping

Ping a non-default PAS server

pas-ping -s 192.168.4.123

Ping a PAS server and get the output in JSON format

pas-ping -s 192.168.4.123 -F JSON

Command Output Example

pas-ping



PAS server at *localhost* is up



3.2 Get Server Information

Display the hostname and port number of a server.

Name

pas-getsrv

Description

Use the pas-getsrv command to display the hostname and port number of a server.

Syntax

pas-getsrv [options]

Options

-h

Display help for the command.

-s SERVERNAME

Returns the hostname and port number of the PAS server specified by **SERVERNAME**. If this option is not specified, then the default server and its port information is displayed.



Note: The -s SERVERNAME option is not supported for Access Desktop.

Command Example

Get information about the default server

pas-getsrv

Command Output Example

pas-getsrv

Server=localhost Port=17084



3.3 Get Server Version and Build Information

Display server version and build information.

Name

pas-ver

Description

Use the pas-ver command to display server version and build information.

Syntax

```
pas-ver [ options ]
```

Options

-h

Display help for the command.

-s SERVERNAME

Display version and build information for the PAS server specified by **SERVERNAME**. If this option is not specified, then the default server and its port information is displayed.



Note: The -s SERVERNAME option is not supported for Access Desktop.

-F JSON

Print the output format in JSON.

Command Examples

```
Display the server version and build information for the default server
```

pas-ver

Display the server version and build information for a non-default server

```
pas-ver -s 192.168.4.123
```

Display the server version in JSON format

```
pas-ver -s 192.168.4.123 -F JSON
```

Command Output Example

```
pas-ver
    majorVersionNumber :: 2018
    minorVersionNumber :: 2
    patchNumber :: 0
    buildId :: 20180624
```



```
platform :: Linux-x86_64 arch :: amd64
```



3.4 Add a Server

Add a service cluster using SSH or an Access Web server using HTTPS.

Name

pas-server-add

Description

Use the pas-server-add command to add a service cluster (i.e. a PBS Professional complex) using SSH or an Access Web server using HTTPS.

Use the pas-server-add command to add a service cluster (i.e. a PBS Professional complex) using SSH by providing:

- SERVERNAME, the name by which the server will be known within Altair Access. The special characters allowed while providing the SERVERNAME are dot, underscore, hyphen, and space. The SERVERNAME should not end with white space.
- HOSTNAME Or IPADDRESS of the server.
- Port Number of the server (Optional). This is the gateway port which is by default 4443.
- USERNAME and either a PASSWORD or an SSHKEYPATH. The credentials of the user should be available in the server.

Use the pas-server-add command to add an Access Web server using HTTPS by providing:

- **SERVERNAME**, the name by which the server will be known within Altair Access. The special characters allowed while providing the **SERVERNAME** are dot, underscore, hyphen, and space. The **SERVERNAME** should not end with white space.
- Access Web URL, the Access Web server URL should be provided in the format https://
 <HOSTNAME>:<PORT> and the port number is the gateway port.
- USERNAME and a PASSWORD . The credentials of the user should be available in the server.
- -a PBS COMMAND LINE ADAPTOR The Adaptor type option used for adding Access Web server.



By default, the user who issues this command is logged into the SERVER.

Syntax

```
pas-server-add -s SERVERNAME -n { HOSTNAME:port | IP ADDRESS:port } -u USERNAME -p { PASSWORD | -1 SSHKEYPATH }
Syntax for adding a service cluster using SSH

pas-server-add -s SERVERNAME -n { https:// HOSTNAME: port | IP ADDRESS: port } -u
USERNAME -p PASSWORD -a PBS_COMMAND_LINE_ADAPTOR
Syntax for adding an Access Web server using HTTPS
```



Options

-h

Display help for the command.

-L

Skip logging in while adding a server.

-r

Set the stage root directory. By default, the stage root directory is set to /stage/\$USER/AltairAccess

The staging directory is where the necessary job files are transferred after job submission via a client for execution.

-c URL

Set the central repository URL using this parameter.

If your site has chosen to store application definitions in a central repository rather than on the local workstation, enter the URL for accessing the central repository in the format https:// <HOSTNAME>:<PORT>. <HOSTNAME> is the hostname of the machine where Access Web is installed and <PORT> is the gateway port which is by default 4443.

-a

The Adaptor type option specifies how Access Desktop should communicate with the server. The adaptor types supported are:

- PBS SSH ADAPTOR used to communicate to the server using SSH. This is the default option.
- PBS COMMAND LINE ADAPTOR used to communicate to the server using HTTPS.
- LOCAL_DESKTOP_QUEUE_ADAPTOR used to communicate for local queue, mostly used in case of local job submissions (Inspire).

-P

Provide the server properties. The information provided is updated in the <code>serverData.xml</code> file. You can provide the server properties like Copy Backup, Scheduler Cycle Time, and others. The valid input format is <code><key>=<value>[, <key>=<value>...]</code>.

-g

Use this option to prevent an SSH key from being generated. By default, the command generates a SSH key so that on subsequent logins, a username and password do not need to be provided. This option is applicable only for Access Desktop.

Command Examples

Adding a service cluster with username and password

pas-server-add -s cluster -n 192.168.4.123 -u dave -p evad&234

Adding an Access Web server with username and password

pas-server-add -s web_cluster -n https://172.16.82.23:17034 -u dave -p evad&234 -a PBS_COMMAND_LINE_ADAPTOR



Adding a server using SSH key

pas-server-add -s cluster -n 192.168.4.123 -u dave -l "C:\Users\Privatekey"

Adding a server using a non-default port number

pas-server-add -s cluster -n 192.168.2.23:17034 -u dave -l "C:\Users\Privatekey"

Adding a server with the properties

pas-server-add -s cluster -n 192.168.4.123 -u dave -p evad&234 -P COPY_BACK_SCHEDULER_CYCLE_TIME=300,COPY_BACK_THREAD_POOL_SIZE=5, JOB S FILE OVERRIDE=true

Adding a server with Central Repository

pas-server-add -s cluster -n 192.168.4.123 -u dave -p evad&234 -c https://192.168.4.124:17084

Command Output Example

pas-server-add -s cluster -n 192.168.4.123 -u dave -p evad&234

Server: cluster added and User logged in successfully

pas-server-add -s web_cluster -n https://172.16.82.23:17034 -u dave -p evad&234 -a PBS COMMAND LINE ADAPTOR

Server: web_cluster added and User logged in successfully



3.5 List Servers

Display the list of servers or clusters added.

Name

pas-server-list

Description

Use the pas-server-list command to fetch the list of servers (clusters) that have either been added via the Access UI or the pas-server-add command.



Note: This command is valid for Access Desktop only.

Syntax

```
pas-server-list [ options ]
```

Options

-h

Display help for the command.

-d

Return the details for the default server (cluster).

-F JSON

Print the output format in JSON.

Command Examples

List the available servers

```
pas-server-list
```

To get the default server details

```
pas-server-list -d
```

Command Output Example

```
pas-server-list
   ServerId : cluster Host : altvm10vm1
   ServerId : web_cluster Host : localhost
   ServerId : cluster_qa Host : altvm10vm14
   ServerId : cluster_rm Host : altvm10vm3
```

```
pas-server-list -d
```



ServerId : cluster Host : altvm10vm1



3.6 Delete a Server

Delete a server (cluster) by specifying its SERVERNAME

Name

pas-server-delete

Description

Use the pas-server-delete command to delete a server (cluster) by specifying its **SERVERNAME**. **SERVERNAME** is the name of the cluster as it is known within Access.



Note: This command is valid for Access Desktop only.

Syntax

pas-server-delete -s SERVERNAME [options]

Options

-h

Display help for the command.

Command Examples

Delete a server (cluster)

pas-server-delete -s cluster

Command Output Examples

pas-server-delete -s cluster

Server: cluster deleted Successfully



3.7 Determine if a User is an Administrator

Determine if the effective user has administrative privileges for a server.

Name

pas-admin

Description

Use the pas-admin command to determine if the effective user has administrative privileges for a server. The command will return *true* when the user is an administrator and *false* when the user is not a server administrator.

Syntax

pas-admin [options]

Options

-h

Display help for the command.

-s SERVERNAME

Determine if the effective user has administrative privileges for PAS server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.



Note: The -s SERVERNAME option is not supported for Access Desktop.

Command Examples

Determine if the effective user has administrative privileges for the default server pas-admin

Determine if the effective user has administrative privileges for a non-default server pas-admin -s 192.168.4.123

Command Output Examples

pas-admin

true



3.8 Getting the Staging Area Root Directory

Return the root directory of the staging area set.

Name

pas-getsroot

Description

Use the pas-getsroot command to return the root directory of the staging area set during the installation

Syntax

```
pas-getsroot [ options ]
```

Options

-h

Display help for the command.

-s SERVERNAME

Returns the staging area root directory of the PAS server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

Command Examples

```
Get the staging area root directory of the default server
```

pas-getsroot

Get the staging area root directory of a non-default server

pas-getsroot -s 192.168.4.123

Command Output Examples

pas-getsroot

/stage



3.9 Set the User's Password

Set your CLI password.

Name

pas-passwd

Description

Use the pas-passwd command to set your CLI password. Once this command is issued, you will be asked to enter a password, and then re-enter it for verification. Once the password is set, it will be used for all subsequent CLI requests.

Syntax in Access Desktop

pas-passwd [option]

Syntax in Access Web

pas-passwd -s SERVERNAME -u USERNAME [option]

Options

-h

Display help for the command.

-s SERVERNAME

Set the CLI password for the PAS server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

-u USERNAME

Set the password for the specified USERNAME. By default, it is the current user.

-p PASSWORD

Specify the user's current password.

-1 PATHNAME

Location of the SSH public key file for the user. This can be used if you do not want to specify the password. The SSH key file path should be provided in quotes.



Note: The -1 **PATHNAME** option is not supported for Access Web.

-F JSON

Print the output format in JSON.

-g

Use this option to disable generating SSH Key. By default, the command will generate a SSH Key which enables the user not to provide username and password for subsequent logins. This option is applicable only for Access Desktop.



Command Examples

Set the user's password

pas-passwd

Set the user's password by providing the username and password

pas-passwd -s 192.168.4.123 -u dave -p evad&123

Set the user's password by providing the SSH key location

pas-passwd -s 192.168.4.123 -u dave -l "C:\Users\Privatekey"

Command Output Examples

pas-passwd

Enter user's password:xxxxxxxx
Retype password:xxxxxxxx
Changed user root's password on server <localhost>



Commands for job submission, job monitoring, and obtaining job results.

This chapter covers the following:

- 4.1 List of all Applications (p. 34)
- 4.2 List of Application Parameters (p. 36)
- 4.3 Submit a Job (p. 38)
- 4.4 Check the Status of a Job (p. 40)
- 4.5 Summary of Job Information (p. 42)
- 4.6 Download Job Results (p. 44)
- 4.7 Delete a Job (p. 46)
- 4.8 List of Custom Actions (p. 48)
- 4.9 Execute a Custom Action for a Job (p. 50)

All commands will connect to the first server (cluster) registered after installation (this server is considered the default server). Most commands provide an option to specify a non-default PAS server.

A simple workflow for submitting a job is:

- 1. Get a list of the available applications on the server using the pas-getapps command.
- **2.** Once you have determined which application to run, get a list of application parameters using the pas-getapp command.
- **3.** Upload the job input files to the server using the pas-fup command.
- **4.** Submit a job to the server using the pas-submit command.
- **5.** Check the status of your job using the pas-stat command.
- **6.** Download the job result files using the pas-getres command.

4.1 List of all Applications

Display a list of all applications.

Name

pas-getapps

Description

Use the pas-getapps command to return a list of all applications known to the PAS server.

Syntax

```
pas-getapps [ option ]
```

Options

-h

Display help for the command.

-s SERVERNAME

Retrieve a list of all applications known to the PAS server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

-F JSON

Print the output format in JSON. This will also provide the timestamp of when the application definition was last updated in the cluster. The timestamp that is displayed is in Hash format.

Command Examples

Get a list of all application known to the default server

pas-getapps

Get a list of all applications known to a non-default server

pas-getapps -s 192.168.4.123

Get a list of all applications from Access Web server

pas-getapps -s web cluster

Print the output in JSON format

pas-getapps -F JSON

Command Output Examples

```
pas-getapps
ShellScript2
RADIOSS
```



```
Sleeper
JobArray
ShellScript
OptiStruct
Signal Trap
ShellScript
```

```
pas-getapps -s 192.168.4.123

RADIOSS
ShellScript
OptiStruct
```

```
pas-getapps -F JSON
{"time stamp":
 "96f44fd54d5f8178d5b4c0d06ebd0a3d1377db97c04cb4b12007da64a4bd74a3",
"data": [{"definitions": {"file": {"required": ["value"], "type": "object", "properties": {"dname": {"type": "string"}, "required": {"type": "boolean"}, "upload": {"type": "boolean"}, "value": {"type": "string"}}}},
"$schema": "http://json-schema.org/draft-04/schema#",
"required": ["NCPUS", "MEMORY", "PRIMARY FILE"], "type": "object",
"properties": {"FILES": {"items": {"$ref": "#/definitions/file"},
"DisplayName": "Job Files", "type": "array", "Displayable": true,
"Description": "Files to be included with the Job Script."},
"MEMORY PLACEMENT": {"DisplayName": "Memory Per Chunk",
"Description": "The physical memory requested per chunk."
"enum": ["true", "false"], "Displayable": true, "value": "true",
"type": "string"}, "NCPUS": {"DisplayName": "Number of Processors",
"Description": "The total number of processors.",
"Displayable": true, "value": 1, "minimum": 1, "type": "integer"},
"JOB ARGS": {"DisplayName": "Job Script Arguments", "type": "string",
"Displayable": true, "Description": "Pass specific arguments to the
Job Script."}, "QUEUE": {"DisplayName": "Queue", "type": "string", "Displayable": true, "Description": "Queue to which job must be submitted"},
"SUBMISSION DIRECTORY": {"Description": "Result files will be placed
here by PBS Desktop.", "isDirectory": true, "DisplayName": "Output Directory", "Displayable": true, "$ref": "#/definitions/file"},
"PRIMARY FILE": {"Description": "The Job Script to run.",
"DisplayName": "Job Script", "Displayable": true,
"$ref": "#/definitions/file"}, "CHUNK PLACEMENT": {"DisplayName": "Placement
of Chunks", "Description": "The placement of job chunks.", "enum": ["pack", "free", "scatter"], "Displayable": true, "value": "free",
"type": "string"}, "MEMORY": {"DisplayName": "Amount of Memory (MB)",
"Description": "The total physical memory requested.",
"Displayable": true, "value": 10, "minimum": 10, "type": "integer"},
"CHUNKS": {"DisplayName": "Number of Chunks", "Description": "The total
number of job chunks.", "Displayable": true, "value": 1, "minimum": 1,
"type": "integer"}, "ApplicationId": {"type": "string", "Displayable": false,
"value": "ShellScript"}, "JOB NAME": {"DisplayName": "Job Name",
"type": "string", "Displayable": true, "Description": "The name of the job."},
"ApplicationFileExtension": {"items": {"type": "string"}, "type": "array",
"Displayable": false, "value": [".sh", ".py", ".csh"]}}}],
"success": true, "exitCode": "0"}
```



4.2 List of Application Parameters

Display the list of application parameters.

Name

pas-getapp

Description

Use the pas-getapp command to return a list of all parameters available for the specified **APPNAME**. This command will also provide information on whether the application parameter is mandatory or optional. The output of this command can be redirected to a file.

Syntax

pas-getapp -a APPNAME[option]

Options

-h

Display help for the command.

-s SERVERNAME

Retrieve application parameters for **APPNAME** for the server specified by **SERVERNAME**. If the option is not specified, then the default server will be assumed.

-F JSON

Print the output format in JSON.

Command Examples

Get the parameters available for the application "optistruct" on the default server pas-getapp -a optistruct

Get the parameters available for the application "optistruct" on a non-default server

pas-getapp -a optistruct -s 192.168.4.123

Get the parameters available for the application "optistruct" on Access Web server

pas-getapp -a optistruct -s web_cluster

Get the parameters available for the application "optistruct" and redirect the output to a file called /tmp/optistruct_params

pas-getapp -a optistruct > /tmp/optistruct_params

Command Output Examples

pas-getapp -a ShellScript



```
ApplicationId=ShellScript
ApplicationName=ShellScript
FILES (false) (FileNameMulti)
MEMORY_PLACEMENT (false) (StringEnumerated) (Value=true)
        [Options:true,false]
NCPUS (true) (Int) (Min:1) (Value=1)
JOB_ARGS (false) (String)
QUEUE (false) (String)
SUBMISSION_DIRECTORY (false) (DirectoryName)
PRIMARY_FILE (true) (File)
CHUNK_PLACEMENT (false) (StringEnumerated) (Value=free)
        [Options:pack,free,scatter]
MEMORY (true) (Int) (Min:10) (Value=10)
CHUNKS (false) (Int) (Min:1) (Value=1)
JOB_NAME (false) (String)
```



4.3 Submit a Job

Submit a job to PBS Professional.

Name

pas-submit

Description

Use the pas-submit command to submit a job. Upon successful submission of the job, this command will return the PBS Professional job identifier. The pas-submit command accepts input file paths relative to the PAS server location, therefore you must upload job input files to the server before submitting a job. Use the pas-fup command to upload any job input files to the server in Access Web.

There are two ways to submit a job using this command:

- The application parameters can be entered manually on the command line.
- The application parameters can be stored in a file. Use the pas-getapp command to generate a list of the application parameters, and then edit this list to fill in the appropriate parameter values.

Syntax

pas-submit [option]

Options

-h

Display help for the command.

-f FILEPATH

Specify the path of the file that contains the application parameters. Use the pas-getapp command to generate this file.

-s SERVERNAME

Submit a job to the server specified by **SERVERNAME**. If the server is not specified, then the default server will be assumed.

-w

Use this option to wait until the job is completed and result files are downloaded.



Note: The -w option is valid for Access Web only.

-F JSON

Print the output format in JSON.

Command Examples

These examples assume that the job input files have already been uploaded to the server.

Submit a job to the server blrec166 by entering all application parameters at the command line

pas-submit ApplicationId=ShellScript ApplicationName=ShellScript



JOB NAME=hello world PRIMARY FILE=/home/tsmith/hello world.sh MEMORY=100 NCPUS=1

Submit a job by specifying the path to the file containing the application parameters

pas-submit -f /tmp/parm file

Submit a job to a non-default server

pas-submit -f /tmp/parm file -s 192.168.4.123

Submit a job to the Access Web server

pas-submit -f /tmp/parm_file -s web_cluster

Submit a job to the server hwesuse113-01 passing an application argument of datetime

pas-submit ApplicationId=MyApp ApplicationName=MyApp JOB_NAME=MyApp_test EXECUTION_TIME='2014-07-30;13:40:00' SHELL_SCRIPT=/home/user1/hello_world.sh SUBMISSION DIRECTORY=/home/user1

Submit a job to the Server hwesuse113-01 passing an application argument of boolean

pas-submit ApplicationId=MyApp ApplicationName=MyApp JOB_NAME=MyApp_test
LOGGING=true SHELL_SCRIPT=/home/user1/hello_world.sh
SUBMISSION DIRECTORY=/home/user1

Command Output Examples

pas-submit ApplicationId=ShellScript ApplicationName=ShellScript JOB_NAME=ShellScript_test MEMORY=10 NCPUS=1 JOB_SCRIPT=/tmp/hello_world.sh SUBMISSION DIRECTORY=/tmp/PAS output

Response from server 149.hwesuse113-01



4.4 Check the Status of a Job

Display the status of a job.

Name

pas-stat

Description

Use the pas-stat command to display the status of a job (similar to the PBS Professional command qstat -f). You can display the status of a particular job or the status of all jobs.

Syntax

```
pas-stat [ option ]
```

Options

-h

Display help for the command.

-j JOBID

Get the status of JOBID. If this option is not specified, then the status of all jobs will be returned.

-s SERVERNAME

Get the status of a job on the server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

-F JSON

Print the output format in JSON.

Command Examples

Check the status of a specific job on the default server

pas-stat -j 248.blrec166

Check the status of all jobs on the default server

pas-stat

Check the status of all jobs on a non-default server

pas-stat -s 192.168.4.90

Check the status of a specific job on a non-default server

pas-stat -j 248.blrec166 -s 192.168.4.90



```
pas-stat -j 129.hwesuse113-01
   Job Id: 129.hwesuse113-01
   pbs job state : Q
   pbs server : hwesuse113-01
   pbs Account Name : n/a
   pbs Job Name : test1
   pbs Job Owner: ebleicher@hwesuse113-01.prog.altair.com
   pbs_Checkpoint : u
   pbs_ctime : Wed Mar 12 13:51:37 2014
   pbs Error Path: hwesuse113-01.prog.altair.com:/var/spool/pas/temp/test1.er
   pbs exec host : n/a
   pbs exec_vnode : n/a
   pbs Hold_Types : n
   pbs Join Path: n
   pbs Keep Files : oe
   pbs Mail Points : a
   pbs mtime : Wed Mar 12 13:51:38 2014
   pbs Output Path: hwesuse113-01.prog.altair.com:/var/spool/pas/temp/test1.ou
   pbs Priority: 0
   pbs qtime : Wed Mar 12 13:51:38 2014
   pbs Rerunable : True
   pbs stime : n/a
   pbs session id : 0
   pbs sandbox : private
   pbs jobdir : n/a
   pbs stagein: runtime@hwesuse113-01:/var/spool/pas/repository/applications/
   ShellScript/runtime,pbs spawn@hwesuse113-01:/opt/altair/pas/2020.4/pas/
   pbs spawn, hello world.sh@hwesuse113-01:/users/ebleicher/hello world.sh
   pbs stageout : *@hwesuse113-01:/stage/ebleicher/test1
   pbs Variable List:
   PAS APPLICATION=ShellScript, PAS CHUNKS=1, PAS CLIENT HOST=127.0.0.2,
   PYTHONPATH=/opt/pbs/default/bin/pbs python,
   PAS SUBMISSION DIRECTORY=pbscp://hwesuse113-01/stage/ebleicher/test1,
   JOB ARGS=, AIF MODE=enterprise,
   PAS JOB SCRIPT=pbscp://hwesuse113-01/users/ebleicher/hello world.sh,
   PAS SERVER PORT=17084, PAS MEMORY=1000, PAS CHUNK PLACEMENT=free,
   JOB SCRIPT=pbscp://hwesuse113-01/users/ebleicher/hello world.sh,
   PAS MEMORY PLACEMENT=true, PBS HOME=/var/spool/PBS,
   PAS HPCBP ARGUMENTS=runtime/start.py, PAS JOB NAME=test1,
   PAS HPCBP EXECUTABLE=/opt/pbs/default/bin/pbs python,
   PAS PYTHON PATH=/opt/pbs/default/bin/pbs python, PAS JOB NAME=test1,
   PAS NCPUS=10, PAS SERVER VERSION=2020.4, AIF USER=ebleicher,
   PBS O QUEUE=workq, PBS O HOST=hwesuse113-01.prog.altair.com
   pbs comment : Can Never Run: Insufficient amount of resource
   ncpus (R: 10 A: 1 T: 1)
   pbs etime : Wed Mar 12 13:51:38 2014
   pbs SubStatus: 11
   pbs array : n/a
   pbs array state count : n/a
   pbs array indices submitted : n/a
   pbs array indices remaining: n/a
```



4.5 Summary of Job Information

Display a summary of the job information.

Name

pas-sum

Description

Use the pas-sum command to display a summary of the job information (similar to the PBS Professional command qstat). You can displays a summary of job information for a specific job, or all jobs on the server.

Syntax

```
pas-sum [ option ]
```

Options

-h

Display help for the command.

-j JOBID

Display a summary of job information for JOBID. If this option is not specified, then a summary for all jobs will be returned.

-s SERVERNAME

Display a summary of job information for a job on the server specified by **SERVERNAME**. If the server is not specified, then the default server will be assumed.

-F JSON

Print the output format in JSON.

Command Examples

Get a summary of the job information for a given job

```
pas-sum -j 243.blrec166
```

Get a summary of job information for all jobs on the default server

pas-sum

Get a summary of job information for all jobs on a non-default server

```
pas-sum -s 192.168.4.123
```

```
pas-sum -j 129.hwesusue113-01

pbs jobid : 129.hwesuse113-01
```



pbs_Job_Name : test1
pbs_Job_Owner : ebleicher@hwesuse113-01.prog.altair.com
pbs_job_state : Q
pbs_queue : workq



4.6 Download Job Results

Download the files related to the given JOBID to the TARGET LOCATION.

Name

pas-getres

Description

Use the pas-getres command to download the files related to the given JOBID to the TARGET_LOCATION. The job must be in a running or finished state to execute this command. If the job was submitted through Altair Access the job submission directory will be zipped and downloaded. Otherwise the standard output file, standard error file, and any other files specified in the stage-out list will be zipped.



Note: This command is valid for Access Web only.

Syntax

pas-getres -j JOBID -o TARGET_LOCATION [option]



Note: TARGET LOCATION must have an ending slash or backslash:

c:\temp\

/home/user1/temp/

Options

-h

Display help for the command.

-s SERVERNAME

Download job results for a job on the server specified by **SERVERNAME**. If the server is not specified, then the default server will be assumed.

Command Examples



Note: Executing these commands will download the job results files and create a zip file called C:\download\results\176-blrec166.zip on the client host.

Download the job results of a given job to the specified target location

pas-getres -j 176.blrec166 -o C:\download\results\

Download the job results of a given job on a non-default server

pas-getres -j 176.blrec166 -o C:\download\results\ -s 192.168.4.123



Command Output Examples

pas-getres -j 176.blrec166 -o C:\download\results\
 Job Id 176.blrec166 downloaded successfully



4.7 Delete a Job

Delete a given JOBID from the Workload Management System.

Name

pas-del

Description

Use the pas-del command to delete a given JOBID from the Workload Management System. The job can be in any of the following states:

Table 4: Valid job states for deleting a job

Job State	Description
В	Job arrays only: job array has begun.
Н	Job is held. A job is put into a held state by the server or by a user or administrator. A job stays in a held state until it is released by a user or administrator.
Q	Job is queued, eligible to run or be routed.
R	Job is running.
W	Job is waiting for its requested execution time to be reached or job specified a staging request which failed for some reason.

Syntax

pas-del -j JOBID [option]

Options

-h

Display help for the command.

-s SERVERNAME

Delete a job from the server specified by **SERVERNAME**. If the server is not specified, then the default server will be assumed.

Command Examples

Delete a job from the default server

pas-del -j 243.blrec166



Delete a job from a non-default server

pas-del -j 243.blrec166 -s 192.168.4.123

Command Output Examples

pas-del -j 151.hwesuse113-01

Job(151.hwesuse113-01) deleted successfully



4.8 List of Custom Actions

Get the list of available custom action.

Name

pas-custom-action-list

Description

Use the pas-custom-action-list command to get the list of available custom actions for the JOBID.



Note: This command is valid for Access Desktop only.

Syntax

```
pas-custom-action-list -j JOBID [ option ]
```

Options

-h

Display help for the command.

-s SERVERNAME

Get a list of custom actions associated with a job from the PAS server specified by **SERVERNAME**. If the server is not specified, then the default server will be assumed.

-F JSON

Print the output format in JSON.

Command Examples

```
Get a list of custom actions associated with a job from the default server
```

```
pas-custom-action-list -j 243.blrec166
```

Get a list of custom actions associated with a job from a non-default server

```
pas-custom-action-list -j 243.blrec166 -s 192.168.4.123
```



SIGNAL :

DisplayName : SIGNAL

type : string
required : [SIGNAL]

ShowOutput : True

JobStates: [RUNNING, RUNNING, WAITING, FINISHED, QUEUED, SUCCEEDED]

Description : Send Signal



4.9 Execute a Custom Action for a Job

Execute a custom action for a job.

Name

pas-execute-custom-action

Description

Use the pas-execute-custom-action command to execute a *customaction* for a *Jobid*.



Note: This command is valid for Access Desktop only.

Syntax

pas-execute-custom-action -j *JOBID* -N *CUSTOMACTION* [argument_name=value, argument_name=value] [option]



Note: The argument_name=value are the arguments that are being passed to the custom action, for example, SEND_SIGNAL=STOP. Not every custom action will have arguments, so they are optional.

Options

-h

Display help for the command.

-s SERVERNAME

Execute the custom action for a job that has been submitted to the server specified by **SERVERNAME**. If the server is not specified, then the default server will be assumed.

-F JSON

Print the output format in JSON.

Command Examples

Execute custom action list for a job from the default server

pas-execute-custom-action -j 243.blrec166
-N SEND_SIGNAL SIGNAL=STOP

Execute custom action for a job from a non-default server

pas-execute-custom-action -j 243.blrec166 -s 192.168.4.123
-N SEND SIGNAL SIGNAL=STOP

Command Output Examples

pas-execute-custom-action -j 4461 -N SEND SIGNAL SIGNAL=STOP -s 192.168.4.123



isStdErrTruncated : False
isStdOutTruncated : False

stdOut:RXhlY3V0aW5nIHNjcmlwdDogL3Zhci9zcG9vbC9wYnN3b3Jrcy9wYXMvMjAxOC4y
L2hvbWUvZGF0YS9wYXMvdGFyZ2V0cy9sb2NhbGhvc3QvcmVwb3NpdG9yeS9wcml2YXR1L2dlbm
VyYXR1ZC9qc29uLWFwcGxpY2F0aW9ucy9DdXN0b21BY3Rpb25BcHAvc3VibWl0dGltZS9TZW5k
U2lnbmFsLnB5IHdpdGggc2lnbmFsIDog U1RPUAo=

exitCode : 0



File Management Commands

Commands for Altair Access file operations.

This chapter covers the following:

- 5.1 Create a Directory (p. 53)
- 5.2 Upload a File (p. 54)
- 5.3 Download a File (p. 55)
- 5.4 Delete a File (p. 57)
- 5.5 Compress a File (p. 58)
- 5.6 List of Files (p. 59)

All commands will connect to the first server (cluster) registered after installation (this server is considered the default server). Most commands provide an option to specify a nondefault PAS server.

5.1 Create a Directory

Create a directory on a server.

Name

pas-fmkdir

Description

Use the pas-fmkdir command to create a **DIRECTORY** on a server.

Syntax

```
pas-fmkdir -d DIRECTORY [ option ]
```

Options

-h

Display help for the command.

-j JOBID

Make the DIRECTORY in the JOBID's execution directory. The JOBID must be in a running state.

-s SERVERNAME

Create a directory on the server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

-F JSON

Print the output format in JSON.

Command Examples

Create a directory on the default server

pas-fmkdir -d /users/tsmith/ShellScript output

Create a directory on a non-default server

pas-fmkdir -d /users/tsmith/ShellScript output -s 192.168.4.123

Create a directory in the running job's execution directory

pas-fmkdir -d ShellScript output -j 347.hwesuse113-01

```
pas-fmkdir -d C:\testDir

Directory <C:\testDir> Created successfully
```



5.2 Upload a File

Upload a file to a directory.

Name

pas-fup

Description

Use the pas-fup command to upload a **FILE** to a **DEST** on a server.

Syntax

```
pas-fup -f FILE -o DEST [ option ]
```

Options

-h

Display help for the command.

-j JOBID

Upload a FILE to the JOBID's execution directory.

- SERVERNAME

Upload a **FILE** to the server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

Command Examples

Upload a file to the default server

pas-fup -f C:\foobar.txt -o /users/tsmith/foobar.txt

Upload a file to a non-default server

pas-fup -f C:\foobar.txt -o /users/tsmith/foobar.txt -s 192.168.4.123

Upload a file to the job's execution directory

pas-fup -j 87.blrec3vm12 -f /stage/vis.zip -o vis.zip



5.3 Download a File

Download a file from a server.

Name

pas-fdown

Description

Use the pas-fdown command to download a FILE from a server.

Syntax

```
pas-fdown -f FILE [ option ]
```

Options

-h

Display help for the command.

-j JOBID

Download a FILE from the JOBID's execution directory. The job must be in a running state.

-o DEST

Download a **FILE** from the server to the target location **DEST**. If this option is not specified, the **FILE** will be downloaded to the current working directory.

-s SERVERNAME

Download a **FILE** from the server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

Command Examples

Download a file from the default server

pas-fdown -f /users/tsmith/results.out -o c:\temp\results.out

Download a file from a non-default server

pas-fdown -f /users/tsmith/results.out -o c:\temp\results.out -s 192.168.4.123

Download a file from a running job's execution directory

pas-fdown -f ShellScript_test.o325 -o c:\temp\ShellScript_test.o325
-j 325.blrec166

Command Output Examples

pas-fdown -f /users/tsmith/results.out -o c:\temp\results.out



Downloaded successfully



5.4 Delete a File

Delete a file from a server.

Name

pas-fdel

Description

Use the pas-fdel command to delete a FILE located on the server.

Syntax

```
pas-fdel -f FILE [ option ]
```

Options

-h

Display help for the command.

-j JOBID

Delete a FILE located in the JOBID's execution directory. The job must be in a running state.

-s SERVERNAME

Delete a **FILE** located on the server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

Command Examples

Delete a file located on the default server

pas-fdel -f /users/tsmith/bartest.fem

Delete a file located on the non-default server

pas-fdel -f /users/tsmith/bartest.fem -s 192.168.4.123

Delete a file located in a running job's execution directory

pas-fdel -f hello_world.sh -j 329.hwesuse113-01

```
pas-fdel -f /tmp/PAS_output/ShellScript_test/ShellScript_test.e149
   File(/tmp/PAS_output/ShellScript_test/ShellScript_test.e149)
   deleted successfully
```



5.5 Compress a File

Compress a file located on a server and save the compressed file to a specified destination.

Name

pas-fcompr

Description

Use the pas-fcompr command to compress a FILE located on a server to DEST.

Syntax

```
pas-fcompr -f FILE -o DEST [ option ]
```

Options

-h

Display help for the command.

-j JOBID

Compress a FILE located in the JOBID's execution directory. The job must be in a running state.

-s SERVERNAME

Compress a **FILE** located on the server specified by **SERVERNAME**. If this option is not specified, then the default server will be assumed.

Command Examples

```
Compress a file located on the default server and create a zip file on the default server pas-fcompr -f /users/tsmith/bar.fem -o /users/tsmith/bar.zip
```

Compress a file located on a non-default server and create a zip file on that server

```
pas-fcompr -f /users/tsmith/bar.fem -o /users/tsmith/bar.zip
-s 192.168.4.123
```

Compress a file located in a running job's execution directory and created a zip file on the default server

```
pas-fcompr -f ShellScriptTest.o332 -o /users/tsmith/ShellScriptTest.zip
-j 332.blrec166
```

```
pas-fcompr -f /tmp/PAS_output/ShellScript_test/ShellScript_test.o149
-o /tmp/j149.zip
   File(/tmp/PAS_output/ShellScript_test/ShellScript_test.o149)
   compressed successfully
```



5.6 List of Files

Display a list of files from the server.

Name

pas-flist

Description

Use the pas-flist command to display a list of FILEs located on the server.

Syntax

```
pas-flist -f FILE [ option ]
```

Options

-h

Display help for the command.

-j JOBID

List FILEs in the job's execution directory. The job must be in a running state.

- SERVERNAME

List **FILE**s located on the server specified by **SERVERNAME**. If the option is not specified, then the default server will be assumed.

-F JSON

Print the output format in JSON.

Command Examples

List files in a directory located on the default server

pas-flist -f /stage/tsmith/test1

List files in a directory located on a non-default server

pas-flist -f /stage/tsmith/test1 -s 192.168.4.123

List a specific file located on the default server

pas-flist -f /stage/tsmith/test1/test1.o2

List a specific file in the job's execution directory

pas-flist -f dirlister.e361 -j 248.blrec166

List all files in the job's execution directory

pas-flist -f . -j 248.blrec166



```
pas-flist -f . -j 335.hwesuse113-01

hello_world.sh
  pbsjob.env
  pbs_spawn
  ShellScript_test.e335
  runtime
  ShellScript_test.o335
```

