

# HP Operations Orchestration

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Windows and Linux Operating Systems

## Operations Orchestration Shell User Guide

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## Running HP OO Commands from the Command Line



The Operations Orchestration Shell (OOSH) lets you run HP OO commands from the command line, instead of from the Central 10.x web interface. This enables you to create scripts to run commands, to automate your HP OO processes.

You can perform actions such as:

- Run flows
- Deploy content packs
- Manage files - import, upload, delete, and so on
- Display flow information
- Manage system configuration

```

OOSH
oosh version: 1.25-SNAPSHOT
Welcome to oosh. For assistance type "help" then hit ENTER.
oosh>connect --url http://16.59.62.205:8293/oo/
connected
oosh>finfo --uuid b1e8dfa0-b975-41c7-84ac-249565aa8dda
FlowInfo
-----
Flow ID (UUID): b1e8dfa0-b975-41c7-84ac-249565aa8dda
Name           : Connectivity Test
Content pack   : HPOO-oo-base (1.0-SNAPSHOT)
Description    :
                Checks to see whether or not a connection exists, and if it exists check
s to see      if it is adequately reliable.

Inputs:
host - The host to ping
from.
username - The username for host.
password - The password for
host.
lossThreshold - What percentage of packet loss you consider to be
acceptable for this connection.
latencyThreshold - How long (in milliseconds)
you consider to be an acceptable latency for this connection.
target - The
host to ping.
characterSet - The character encoding of the target computer.
The default is the RAS machine's default encoding.

Responses:
success -

```

See the [reference](#) section for a complete list of commands that can be used with the OOSH utility and the options that can be used with each command.

The OOSH utility is located under **<installation path>\central\bin** and **<installation path>\ras\bin**.

**Note:** Users invoking commands from the OOSH utility must have the relevant Central permissions (otherwise, they will face "Unauthorized" errors).

## Running Commands

You can run commands within the OOSH utility or from a normal prompt/shell.

To run commands from a normal prompt/shell, type `c:\hpoo\central\bin> oosh.bat <command>`.

For example:

```
c:\hpoo\central\bin> oosh.bat trigger --uuid ABC --user ABC --password ABC --url
ABC
```

**Note:** If you used to work with **RSFlowInvoke** and **JRSFlowInvoke** with HP OO 9.x, note that this is the alternative for HP OO 10.x.

**Note:** The OOSH utility is also available under `ras\bin`.

## Connecting to a Central 10.x server

If you are running commands in the OOSH utility's shell interface, you can use the `connect` command to connect to the Central 10.x server.

If the connection is successful, consequent commands will use it (until you exit OOSH or the Central session times out).

All other commands support basic connection properties: `url`, `user`, `password`. This enables you to invoke them directly from the command line without using the `connect` command first.

**Note:** It is possible to specify the user name (with the `user` property) without specifying the password (with the `password` property). You will be prompted for the password upon making the connection.

Note also that in a multi-LDAP environment, you should enter the user name in the following format: **domain\username**. If you enter the user name without a domain, OOSH will try to authenticate the user with the default LDAP first and if this fails, will to authenticate within the HP OO internal domain.

The `connect` command has more options. It also allows connection via an HTTP proxy.

For a complete list of all the options you can use with the `connect` command, see the [reference](#) section or type `help connect` in the command line.

1. Double-click the `oosh.bat` batch file, to start the OOSH utility.
2. In the command line, type (for example):

```
connect --url <Central server URL>
```

3. Press the **Enter** key.

If the connection is successful, the command line displays:

```
Connected
```

## Displaying information about a flow

1. In the command line of the OOSH utility, type:

```
finfo --uuid <the UUID of the flow>
```

**Note:** The UUID of the flow is displayed in the Flow Library information pane.

2. Press the **Enter** key.

The flow information is displayed in the command line.

## Running a flow

With the `trigger` command, you can use the options `--user`, `--password`, `--url`, and so on. For a complete list of all the options you can use with the `trigger` command, see the [reference](#) section or type `help trigger` in the command line.

1. In the command line of the OOSH utility, type (for example):

```
trigger --uuid <the UUID of the flow>
```

2. Press the **Enter** key.

## Deploying a content pack

This command will only work if there is an active connection to a Central 10.x server. For a complete list of all the options you can use with the `deploy` command, see the [reference](#) section or type `help deploy` in the command line.

1. In the command line of the OOSH utility, type (for example):

```
deploy --url <URL of OO Central> --files <comma-separated list of files to  
deploy>
```

2. Press the **Enter** key.

## Displaying help about the OOSH utility

To display a list and description of all available commands in the OOSH utility, type:



help

To display help about a particular command, type:

```
help <command>
```

For example:

```
help trigger
```

## Creating a script to run HP OO commands from the OOSH utility

1. To create a script, write a simple text file with the OOSH commands that you want to run. Write each command on a separate line, in the sequence that you want the commands to run.
2. To run the script, either set OOSH as its parser (Linux only, see the details below), or use the script command in OOSH. For example:

```
script --file <path to script>
```

## Adding OOSH as the parser of an executable file

In Linux only, it is also possible to add OOSH as the parser of an executable file.

1. For example, create script-a:

```
#!/<install-dir>/oosh  
<command-sequence>
```

2. Chmod the file:

```
chmod 755 script-a
```

3. Run it from the command line:

```
./script-a
```

## Reference Material

### Available commands for the OOSH utility

**connect**

Argument	Description	Default Value/Behavior	Required
	Connects to an OO 10.x Central server		
--url	URL of OO 10.x Central		Yes
--user	OO Central user name  In a multi-LDAP environment, enter the user name in the format <code>domain\username</code> .	If you enter the user name without a domain, OOSH will try to authenticate the user with the default LDAP first, and if this fails, will try to authenticate within the HP OO internal domain.	No
--password	OO Central password		No
--proxyhost	http proxy host to connect through		No
--proxyport	http proxy port to connect through	8080	No
--proxyuser	http proxy user to connect with		No
--proxypassword	http proxy password to connect with		No

### deploy

	Deploys a content pack (requires an active connection)		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format <code>domain\username</code> .		No
--password	OO Central password		No

--files	Comma-separated list of content packs to deploy		Yes
---------	---	--	-----

**disconnect**

	Disconnects from the OO 10.x Central server		
--	---	--	--

**trigger**

	Runs a flow		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No
--uuid	UUID of the flow to run. For example, cd38b579-4220-4fa5-bafd-78d67f73eb6f		Yes

<p><code>--inputs</code></p>	<p>Comma-separated key=value map of the flow inputs. For example,  <code>key1=value1,key2=value2</code></p> <p><b>Note:</b> If the input value contains white spaces, and you are using a Windows command, you need to use <code>\</code> to escape the quotes. For example:  <code>--inputs \"title=my title,message=my message\"</code></p> <p>If you open the OOSH command line (by running <code>oosh.bat</code> without arguments), you can use regular quotes. For example:  <code>--inputs "title=my title,message=my message"</code></p>		<p>No</p>
------------------------------	--	--	-----------

**track**

	<p>Shows information about a specific execution (tracking)</p>		
<p><code>--url</code></p>	<p>URL of OO 10.x Central</p>		<p>Yes, unless already connected to Central with the <code>connect</code> command</p>
<p><code>--user</code></p>	<p>OO Central user name</p> <p>In a multi-LDP environment, enter the user name in the format <code>domain\username</code>.</p>		<p>No</p>
<p><code>--password</code></p>	<p>OO Central password</p>		<p>No</p>
<p><code>--id</code></p>	<p>Execution id</p>		<p>Yes</p>

--property	Displays a specific property (default: all). Available properties: executionId, executionName, status, resultStatusType, resultStatusName	all	No
------------	---	-----	----

**finfo, flow-info**

	Displays information about a specific flow run		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No
--property	Displays a specific property (default: all). Available properties: id, name, path, description, cpName, version	all	No

**lcp, list-content-packs**

	Lists all currently deployed content packs in the connected server		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command

--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No

**lsc, list-sys-config**

	Lists the system configuration		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No
--key	Lets you request the value of a specific key only		No

**ssc, set-sys-config**

	Sets the system configuration		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No
--key	System configuration key		Yes
--value	System configuration value	empty string	No

**show connection**

	Shows the connection properties		
--	---------------------------------	--	--

**historical-data-start-date**

	Sets the start date for the import of historical data		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No
--date	The date from which to start the import, in format dd/MM/yyyy		Yes

**historical-data-status**

	Gets the status of historical data import		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No

**import-historical-data**

	Imports the historical data of deployed content with the data defined in the 9.x server		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No

**import-permissions**

	Imports the permissions of deployed content with the permissions file		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No

**import-schedules**

	Imports the schedules of deployed content with the schedules defined in the 9.x server		
--	--	--	--



--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No

**permissions-status**

	Gets a list of all the permissions that were imported so far		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command
--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No
--output	Full path where the output should be written		No

**upload-permissions-file**

	Uploads the permissions file created during content upgrade		
--url	URL of OO 10.x Central		Yes, unless already connected to Central with the connect command

--user	OO Central user name  In a multi-LDP environment, enter the user name in the format domain\username.		No
--password	OO Central password		No
--file	The full path to the permissions file, which is in the <b>Output</b> folder of the Content Upgrade Utility		No

**upgrade-execution-events**

**Note:** : After an upgrade from HP OO 9.x to 10.x (earlier than 10.02), using the HP OO Shell Utility to migrate historical data will get the result "Resolved" instead of "RESOLVED", as required in HP OO 10.x. This causes duplicates in the results distribution on the Dashboard. If this occurs, upgrade to HP OO 10.20.

