



# Managing Perl and Perl modules

## OnCommand Workflow Automation 5.0

NetApp  
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# Managing Perl and Perl modules

OnCommand Workflow Automation (WFA) supports Perl commands for workflow operations. ActivePerl 5.16 is installed and configured on the WFA server when you install WFA. You can install and configure your preferred Perl distribution and Perl modules.

In addition to ActivePerl, the required Perl modules from the NetApp Manageability SDK are also installed when you install WFA. The NetApp Manageability SDK Perl modules are required for successful execution of Perl commands.

## Configure your preferred Perl distribution

By default, ActivePerl is installed with OnCommand Workflow Automation (WFA). If you want to use another Perl distribution, you can configure your preferred Perl distribution to work with WFA.

### What you'll need

You must have installed the required Perl distribution on the WFA server.

### About this task

You must not uninstall or overwrite the default ActivePerl installation. You must install your preferred Perl distribution at a separate location.

### Steps

1. Open Windows Explorer and navigate to the following directory: `WFA_install_location\WFA\bin\`
2. Double-click the `ps.cmd` file.

A PowerShell command-line interface (CLI) prompt opens with ONTAP and WFA modules loaded in it.

3. At the prompt, enter the following:

```
Set-WfaConfig -Name CustomPerl -PerlPath CustomPerlPath
```

### Example

```
Set-WfaConfig -Name CustomPerl -PerlPath C:\myperl\perl.exe
```

4. When prompted, restart the WFA services.

## Manage site-specific Perl modules

You can use the ActiveState Perl Package Manager (PPM) to manage your site-specific Perl modules. You must install your site-specific Perl modules outside the OnCommand Workflow Automation (WFA) installation directory to avoid deletion of your Perl modules during a WFA upgrade.

### About this task

Using the PERL5LIB environment variable, you can configure the Perl interpreter installed on the WFA server to use your Perl modules.

Installation of the Try-Tiny Perl module in the user area at c:\Perl is used as an example in this procedure. This user area is not deleted when you uninstall WFA, and you can reuse the area after WFA is reinstalled or upgraded.

### Steps

1. Set the PERL5LIB environment variable to the location where you want to install your Perl modules.

#### Example

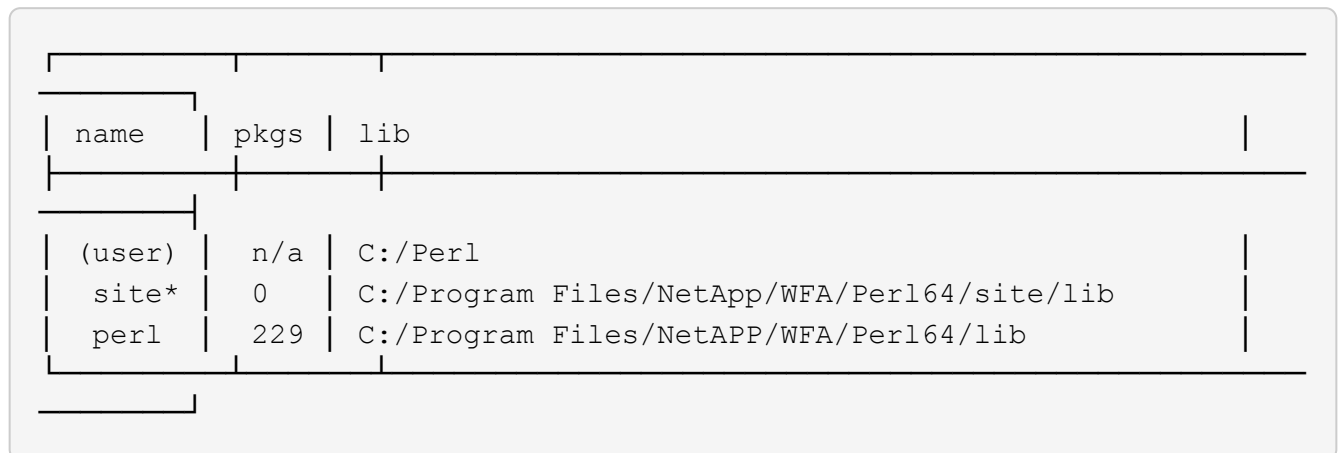
```
c:\>echo %PERL5LIB%
```

```
c:\Perl
```

2. **Optional:** Verify that the Perl module area is not initialized by using `ppm area list`.

#### Example

```
c:\Program Files\NetApp\WFA\Perl64\bin>ppm area list
```



name	pkgs	lib
(user)	n/a	C:/Perl
site*	0	C:/Program Files/NetApp/WFA/Perl64/site/lib
perl	229	C:/Program Files/NetAPP/WFA/Perl64/lib

3. Initialize the Perl module area by using `ppm area init user`.

#### Example

```
c:\Program Files\NetApp\WFA\Perl64\bin>ppm area init user
```

```
Syncing user PPM database with .packlists...done
```

4. **Optional:** Verify that the Perl module area is initialized by using `ppm area list`.

#### Example

```
c:\Program Files\NetApp\WFA\Perl64\bin>ppm area list
```

name	pkgs	lib
user	0	C:/Perl
site*	0	C:/Program Files/NetApp/WFA/Perl64/site/lib
perl	229	C:/Program Files/NetAPP/WFA/Perl64/lib

5. Add the required repositories and install the required packages.

- a. Add the required repository by using `ppm repo add`.

**Example**

```
c:\Program Files\NetApp\WFA\Perl64\bin>ppm repo add
http://ppm4.activestate.com/MSWin32-x64/5.16/1600/package.xml
```

```
Downloading ppm4.activestate.com packlist...done
Updating ppm4.activestate.com database...done
Repo 1 added.
```

- b. **Optional:** Verify that the required repository is added by using `ppm repo list`.

**Example**

```
c:\Program Files\NetApp\WFA\Perl64\bin>ppm repo list
```

id	pkgs	name
1	17180	ppmr.activestate.com

(1 enabled repository)

- c. Install the required Perl module by using `ppm install`.

**Example**

```
c:\Program Files\NetApp\WFA\Perl64\bin>ppm install Try-Tiny --area user
```

```

Downloading ppm4.activestate.com packlist...done
Updating ppm4.activestate.com database...done
Downloading Try-Tiny-0.18...done
Unpacking Try-Tiny-0.18...done
Generating HTML for Try-Tiny-0.18...done
Updating files in user area...done
  2 files installed

```

- d. **Optional:** Verify that the required Perl module is installed by using `ppm area list`.

### Example

```
c:\Program Files\NetApp\WFA\Perl64\bin>ppm area list
```

name	pkgs	lib
user	1	C:/Perl
site*	0	C:/Program Files/NetApp/WFA/Perl64/site/lib
perl	229	C:/Program Files/NetAPP/WFA/Perl64/lib

## Repair the ActivePerl installation

ActiveState ActivePerl is installed on your OnCommand Workflow Automation (WFA) server when you install WFA. ActivePerl is required for the execution of Perl commands. If you inadvertently uninstall ActivePerl from the WFA server or if the ActivePerl installation is corrupted, you can manually repair the ActivePerl installation.

### Steps

1. Back up the WFA database using one of the following options:
  - WFA web portal
  - PowerShell script
2. Uninstall WFA.
3. Install the version of WFA that you uninstalled.

ActivePerl is installed when you install WFA.

4. Restore the WFA database.

### After you finish

You can review the restored content for completeness in functionality—for example, the functioning of your custom workflows.

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