

Lesson 7 Demo 4: Create a Puppet Module

This section will guide you to:

• Create a custom Puppet module

This lab has three subsections, namely:

- 1. Creating the module structure
- 2. Generating metadata
- 3. Exploring module directory

Step 1: Creating the module structure

- Open the command line terminal on the system where Puppet has been installed
- Type in the following command to create the module structure:

puppet module generate <module-name>

- Replace <module-name> in the above command with **new-module**
- Choose a dash-separated name for the module as shown in the following screenshot:



```
Terminal-akanksharanasim@akanksharanasim: ~

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akanksharanasim@akanksharanasim: ~

We need to create a metadata.json file for this module. Please answer the following questions; if the question is not applicable to this module, feel free to leave it blank.

Puppet uses Semantic Versioning (semver.org) to version modules. What version is this module? [0.1.0]

-->

Who wrote this module? [new]

-->

What license does this module code fall under? [Apache 2.0]

-->

How would you describe this module in a single sentence?

--> custom module for demo

Where is this module's source code repository?

-->

Where can others go to learn more about this module?
```

- The above modified command will prompt a series of questions that will be used to create the metadta.json file for the module
- Press enter to use the default answers for the questions
- Once the json file is created it will be displayed on the terminal as shown in the screenshot below:



Step 2: Generating metadata

 Type y when prompted with the question: about to generate metadata; continue?

```
About to generate this metadata; continue? [n/Y]
Notice: Generating module at /home/akanksharanasim/new-module...
Notice: Populating templates...
Finished; module generated in new-module.
new-module/spec
new-module/spec/spec helper.rb
new-module/spec/classes
new-module/spec/classes/init spec.rb
new-module/tests
new-module/tests/init.pp
new-module/Gemfile
new-module/README.md
new-module/metadata.json
new-module/manifests
new-module/manifests/init.pp
new-module/Rakefile
akanksharanasim@akanksharanasim:~$
```

- The basic module structure will be created at /home/rootuser/modulename path
- The default files and templates will be populated inside the module's respective directories

Step 3: Exploring module directory

 From the home directory, type in the following command in the command line:

ls			



```
Terminal - akanksharanasim@akanksharanasim: ~

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akanksharanasim@akanksharanasim:~$ ls

Desktop file1.txt new-module puppet6-release-xenial.deb thinclient_drives

akanksharanasim@akanksharanasim:~$
```

- The module created in the previous step will be listed as a result, among other contents of the home directory
- Type in the following command to enter the module and list the contents of the module:

```
cd new-module
Is
```

```
Terminal - akanksharanasim@akanksharanasim: ~/new-module/manifests

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akanksharanasim@akanksharanasim: ~$ ls

Desktop file1.txt new-module puppet6-release-xenial.deb thinclient_drives
akanksharanasim@akanksharanasim: ~$ cd new-module
akanksharanasim@akanksharanasim: ~/new-module$ ls

Gemfile manifests metadata.json Rakefile README.md spec tests
akanksharanasim@akanksharanasim: ~/new-module$ cd manifests
akanksharanasim@akanksharanasim: ~/new-module/manifests$ ls
init.pp
akanksharanasim@akanksharanasim: ~/new-module/manifests$
```

 The above command will display the default files and modules prepared by Puppet while creating the module structure