

CREATING MODULES IN PUPPET

Steps for Puppet Master

Step 1: Create a new directory "new", followed by the below command. Enter the required values and proceed

```
$ mkdir new
$ cd new
$ sudo puppet module generate intelli-new

### ubuntu@ip-172-31-45-144: ~/new
```

```
ubuntu@ip-172-31-45-144:~/new
ubuntu@ip-172-31-45-144:~$ mkdir new
ubuntu@ip-172-31-45-144:~$ cd new
ubuntu@ip-172-31-45-144:~/new$ sudo puppet module generate intelli-
Warning: `puppet module generate` is deprecated and will be removed
release. This action has been replaced by Puppet_Development Kit. F
mation visit https://puppet.com/docs/pdk/latest/pdk.html.
    (location: /usr/lib/ruby/vendor_ruby/puppet/face/module/generate
enerate')
We need to create a metadata.json file for this module. Please ans
    following questions; if the question is not applicable to this
free
    to leave it blank.

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



Step 2: You have successfully created the module. Change into the following directory ./new/new/manifests

Enter the following code in init.pp

```
class new{
  file{'/tmp/module_test.txt':
    content=> "This file is created by a module",
    mode=> '0644',
  }
}
```



Step 3: Come back to the /new directory, and pass the following command:

\$ sudo puppet module build new

ubuntu@ip-172-31-45-144:~/new

ubuntu@ip-172-31-45-144:~/new\$ sudo puppet module build new

Notice: Building /home/ubuntu/new/new for release

Module built: /home/ubuntu/new/new/pkg/intelli-new-0.1.0.tar.gz

ubuntu@ip-172-31-45-144:~/new\$

Step 4: Next, we will install the module by referring the tar.gz file from the last output:

\$ sudo puppet module install ./new/pkg/intelli-new-0.1.0.tar.gz

```
ubuntu@ip-172-31-45-144:~/new$ sudo puppet module install ./new/pkg/intelli-new-0.1.0.tar.gz
Notice: Preparing to install into /etc/puppet/code/environments/production/modules ...
Notice: Created target directory /etc/puppet/code/environments/production/module s
Notice: Downloading from https://forgeapi.puppet.com ... I
```



Step 5: Finally, go to the main manifest file in /etc/puppet/code/environments/production/manifest/site.pp

Finally, include the following code:

```
node default{
include new
}
```

```
wbuntu@ip-172-31-45-144:/etc/puppet/co
GNU nano 2.9.3

node default{

include new
}
```





On Puppet Agent

Step 1: Execute the following command:

```
$ sudo puppet agent --test
```

```
ubuntu@ip-172-31-41-253:~$ sudo puppet agent --test
Info: Using configured environment 'production'
Info: Retrieving pluginfacts
Info: Retrieving plugin
Info: Retrieving locales
Info: Loading facts
Info: Caching catalog for ip-172-31-41-253.us-east-2.compute.internal
Info: Applying configuration version '1549515466'
Notice: /Stage[main]/New/File[/tmp/module_test.txt]/ensure: defined con
{md5}a7e2591d0c44207a76982f3078e5ed70'
Notice: Applied catalog in 0.02 seconds
ubuntu@ip-172-31-41-253:~$
```

Step 2: Verify the configuration change by checking /tmp/module_test.txt

```
@ ubuntu@ip-172-31-41-253:~

ubuntu@ip-172-31-41-253:~$ cat /tmp/module_test.txt

This file is created by a moduleubuntu@ip-172-31-41-253:~$
```