# puppet Roll: Users Guide



**3.8.1 Edition**

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# Preface

The puppet Roll installs and configures the puppet software to be used with Rocks clusters. This Roll by default makes the Rocks frontend a puppet server and the compute nodes as clients. However, by default services are turned off.

Please visit the puppet site[1] to learn more about their release and the individual software components.

# Notes

1. https://puppetlabs.com/
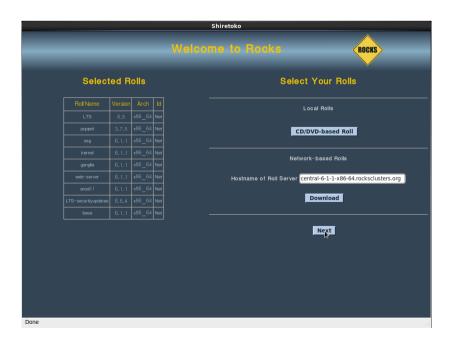
# Chapter 1. Installing the puppet Roll

The puppet roll can be installed during the Frontend installation or added to a running frontend. In either case, is explained in the following sections.

## 1.1. On a new Server

The puppet Roll can be installed during the Frontend installation step of your cluster (refer to section 1.2 of the Rocks usersguide). In short you should reach a screen as shown below, and choose puppet roll.

The puppet Roll is added to a Frontend installation in exactly the same manner as the required base Roll.

## 1.2. On a running Server

The puppet roll can be installed on a running system. The following assumes that roll is available in .iso form and is called "puppet.iso".

```
$ su - root
# rocks add roll puppet.iso
# rocks enable roll puppet
# cd /export/rocks/install
# rocks create distro
# rocks run roll puppet | bash
# shutdown -r now
```

# Chapter 2. Using the puppet Roll

## 2.1. Using the puppet Roll

Tutorials for using puppet and its components are available from the puppet web site.[1]

To activate puppet clients on Rocks, there is two **rocks attributes** used.

**Table 2-1. Attributes Used in puppet Roll**

| Attibute Name | Description |
|---|---|
| Puppet_Client_Install | Flag to install puppet client in cluster nodes. (Service by default is turned off). Default: True (on compute appliance) |
| Puppet_Client | Flag to turn service puppet on in cluster nodes. No default. Set to True, if want a node managed by puppet. |

Below are the steps for starting up using puppet.

1) Turning on puppet server. (Only once).

```
$ su - root
#
###very first time turn on puppet server
###(make sure alt names in /etc/puppet/puppet.conf are as expected)
#
#service puppetmaster status
#chkconfig puppetmaster on
```

2) Setting nodes to start puppet.

```
###by default puppet is installed but turned off on compute appliance only.
###(changing default only affect if compute was not installed yet.)
#
#rocks set appliance attr compute attr=Puppet_Client value=True
#
###if nodes already installed (and don't want re-kickstart).
#
#rocks run host compute command='service puppet start'
#rocks run host compute command='chkconfig puppet on'
#
```

2b) Setting to install and start puppet in other appliances (login for example).

```
###Set to install puppet in login nodes at kickstart
#
#rocks set appliance attr login attr=Puppet_Client_Install value=True
#
###Set to start puppet at boot on login nodes (after installation)
#
#rocks set appliance attr login attr=Puppet_Client value=True
#
```

3) Frontend (master puppet) accept clients by signing certs submitted by clients.

```
###Check if clients contacted master (once per kickstart)
#
#puppet cert list
#
###Sign certs, all at once
#
#puppet cert sign --all
#
###Or sign cert individual node
#
#puppet cert sign compute-0-0
#
```

4)Check puppet install

```
###install test module
#
#git clone https://github.com/jeramirez/rocks-puppetalive.git /etc/puppet/modules/puppetalive
#
###configure site to use test module
###(by uncommenting /etc/puppet/manifests/site.pp)
#
#sed -i -e "s@#include puppetalive@include puppetalive@" /etc/puppet/manifests/site.pp
#
###(optional)to module take effect immediately restart puppet on nodes
#
#rocks run host compute command='service puppet restart'
#
###check existance of file created my test module
###(test module should create a file /root/puppetalive)
#
#rocks run host compute command='hostname;ls -l /root | grep puppetalive'
#
```

Congratulations! you have puppet up and running. Now you can search or create new puppet modules. For more information on puppet commands use **'puppet help'** or visit puppet web site.[2]

# Notes

1.  http://puppetlabs.com/

2.  http://puppetlabs.com/

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