

Semester	T.E. Semester V – INFT
Subject	DevOps Lab
Laboratory Teacher:	Prof. Rohit Barve
Laboratory	CC02

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Roll Number	22101B2003	
Grade and Subject Teacher's Signature		

Experiment no	05
Experiment Name	Puppet : part 1
code	<p>Master:</p> <pre> ankita@Ankita:~\$ sudo docker run -it -d --name master ubuntu db3d95a23059dfe6b6d83c0158bf21302139e08e8fdc08a163d60d3b017943a7 ankita@Ankita:~\$ docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES db3d95a23059 ubuntu "/bin/bash" 9 seconds ago Up 8 seconds master ankita@Ankita:~\$ sudo docker exec -it db3d95a23059 bash root@db3d95a23059:/# sudo apt update bash: sudo: command not found root@db3d95a23059:/# apt update Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB] Get:2 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB] Get:3 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1081 kB] Get:4 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB] Get:5 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB] Get:6 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB] Get:7 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1792 kB] Get:8 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [1002 kB] Get:9 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB] Get:10 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Package </pre>

```
root@db3d95a23059:/# apt install wget
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ca-certificates libpsl5 openssl publicsuffix
The following NEW packages will be installed:
  ca-certificates libpsl5 openssl publicsuffix wget
0 upgraded, 5 newly installed, 0 to remove and 4 not upgraded.
Need to get 1894 kB of archives.
After this operation, 3944 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 openssl amd64 3.0.2-0ubuntu1.10 [1183 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ca-certificates all 20230311ubuntu0.22.04.1 [155 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 libpsl5 amd64 0.21.0-1.2build2 [58.4 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy/main amd64 publicsuffix all 2021120
```

```
root@db3d95a23059:/# wget https://apt.puppetlabs.com/puppet-release-bionic.deb
--2023-10-07 16:15:53-- https://apt.puppetlabs.com/puppet-release-bionic.deb
Resolving apt.puppetlabs.com (apt.puppetlabs.com)... 108.159.46.50, 108.159.46.57, 108.159.46.33, ...
Connecting to apt.puppetlabs.com (apt.puppetlabs.com)|108.159.46.50|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11314 (11K) [application/x-debian-package]
Saving to: 'puppet-release-bionic.deb'

puppet-release-bion 100%[=====] 11.05K 62.3KB/s in 0.2s

2023-10-07 16:15:54 (62.3 KB/s) - 'puppet-release-bionic.deb' saved [11314/11314]
```

```
root@db3d95a23059:/# dpkg -i puppet-release-bionic.deb
Selecting previously unselected package puppet-release.
(Reading database ... 4888 files and directories currently installed.)
Preparing to unpack puppet-release-bionic.deb ...
```

```
root@db3d95a23059:/# apt-get install puppet-master
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  augeas-lenses debconf-utils distro-info-data facter fonts-lato hiera javascript-common lib
  libboost-filesystem1.74.0 libboost-locale1.74.0 libboost-log1.74.0 libboost-nowide1.74.0
  libboost-program-options1.74.0 libboost-regex1.74.0 libboost-thread1.74.0 libbrotli1 libbs
  libcpp-hocon0.3.0 libcurl4 libedit2 libfactor3.14.12 libgdbm-compat4 libgdbm6 libicu70 lib
  libldap-2.5-0 libldap-common lib leatherman1.12.1 libmd0 libnghttp2-14 librtmp1 libruby3.0
  libsasl2-modules libsasl2-modules-db libssh-4 libxml2 libyaml-0-2 libyaml-cpp0.7 lsb-relea
  rake ruby ruby-augeas ruby-deep-merge ruby-net-telnet ruby-rbtree ruby-rubygems ruby-selin
  ruby-shadow ruby-sorted-set ruby-webrick ruby-xmlrpc ruby3.0 rubygems-integration unzip zi
Suggested packages:
  augeas-doc mcollective-common puppet-common apache2 | lighttpd | httpd augeas-tools gdbm-1
  libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap
  libsasl2-modules-otp libsasl2-modules-sql ruby-rrd ruby-hocon ri ruby-dev bundler
The following NEW packages will be installed:
  augeas-lenses debconf-utils distro-info-data facter fonts-lato hiera javascript-common lib
  libboost-filesystem1.74.0 libboost-locale1.74.0 libboost-log1.74.0 libboost-nowide1.74.0
  libboost-program-options1.74.0 libboost-regex1.74.0 libboost-thread1.74.0 libbrotli1 libbs
  libcpp-hocon0.3.0 libcurl4 libedit2 libfactor3.14.12 libgdbm-compat4 libgdbm6 libicu70 lib
  libldap-2.5-0 libldap-common lib leatherman1.12.1 libmd0 libnghttp2-14 librtmp1 libruby3.0
  libsasl2-modules libsasl2-modules-db libssh-4 libxml2 libyaml-0-2 libyaml-cpp0.7 lsb-relea
  puppet-master rake ruby ruby-augeas ruby-deep-merge ruby-net-telnet ruby-rbtree ruby-rubyg
  ruby-selinux ruby-shadow ruby-sorted-set ruby-webrick ruby-xmlrpc ruby3.0 rubygems-integra
  zip
```

```
Processing triggers for libc-bin (2.35-0ubuntu3) ...
root@db3d95a23059:/# apt install systemctl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
systemctl is already the newest version (1.4.4181-1.1).
0 upgraded, 0 newly installed, 0 to remove and 4 not upgraded.
root@db3d95a23059:/#
```

```
root@db3d95a23059:/# systemctl start puppet-master.service
root@db3d95a23059:/# cd /etc
root@db3d95a23059:/etc# cat hosts
127.0.0.1    localhost
::1        localhost ip6-localhost ip6-loopback
fe00::0    ip6-localnet
ff00::0    ip6-mcastprefix
ff02::1    ip6-allnodes
ff02::2    ip6-allrouters
172.17.0.2  db3d95a23059
```

Slave:

```
ankita@Ankita:~$ sudo docker run -it -d --name slave1 ubuntu
61d44ae09538aa33115b48764ffe9b3fe9fb155efacf334e4f44966ef72af16f
```

```
ankita@Ankita:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS   NAMES
61d44ae09538   ubuntu    "/bin/bash"             15 seconds ago Up 14 seconds          slave1
db3d95a23059   ubuntu    "/bin/bash"             2 hours ago   Up 2 hours           master
```

```
ankita@Ankita:~$ docker exec -it 61d44ae09538 bash
root@61d44ae09538:/# apt update
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1226 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1792 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [44.0 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [1002 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1081 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1266 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1342 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [49.8 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1252 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.1 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [50.4 kB]
Fetched 27.6 MB in 2min 37s (176 kB/s)
Reading package lists... Done
Building dependency tree... Done
```



```
root@61d44ae09538:/# apt install wget
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ca-certificates libpsl5 openssl publicsuffix
The following NEW packages will be installed:
  ca-certificates libpsl5 openssl publicsuffix wget
0 upgraded, 5 newly installed, 0 to remove and 4 not upgraded.
Need to get 1894 kB of archives.
After this operation, 3944 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 openssl amd64 3.0.2-0ubuntu1
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ca-certificates all 20230311
.1 [155 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 libpsl5 amd64 0.21.0-1.2build2 [58.4
Get:4 http://archive.ubuntu.com/ubuntu jammy/main amd64 publicsuffix all 20211207.1025-1 [12
Get:5 http://archive.ubuntu.com/ubuntu jammy/main amd64 wget amd64 1.21.2-2ubuntu1 [367 kB]
Fetched 1894 kB in 20s (94.1 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package openssl.
(Reading database ... 4395 files and directories currently installed.)
```

```
root@61d44ae09538:/# wget https://apt.puppetlabs.com/puppet-release-bionic.deb
--2023-10-07 18:30:30-- https://apt.puppetlabs.com/puppet-release-bionic.deb
Resolving apt.puppetlabs.com (apt.puppetlabs.com)... 108.159.46.57, 108.159.46.50, 108.159.4
Connecting to apt.puppetlabs.com (apt.puppetlabs.com)|108.159.46.57|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11314 (11K) [application/x-debian-package]
Saving to: 'puppet-release-bionic.deb'

puppet-release-bionic.deb 100%[=====] 11.05K --.-KB/s

2023-10-07 18:30:30 (151 MB/s) - 'puppet-release-bionic.deb' saved [11314/11314]
```

```
root@61d44ae09538:/# dpkg -i puppet-release-bionic.deb
Selecting previously unselected package puppet-release.
(Reading database ... 4888 files and directories currently installed.)
Preparing to unpack puppet-release-bionic.deb ...
Unpacking puppet-release (1.0.0-28bionic) ...
```

```
root@61d44ae09538:/# apt-get install puppet
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  augeas-lenses debconf-utils distro-info-data facter fonts-lato hiera javascript-common lib
libboost-filesystem1.74.0 libboost-locale1.74.0 libboost-log1.74.0 libboost-nowide1.74.0
libboost-program-options1.74.0 libboost-regex1.74.0 libboost-thread1.74.0 libbrotli1 libbs
libcpp-hocon0.3.0 libcurl4 libedit2 libexpat1 libfactor3.14.12 libgdbm-compat4 libgdbm6 lib
libjs-jquery libldap-2.5-0 libldap-common lib leatherman1.12.1 libmd0 libmpdec3 libnghttp2-
libpython3-stdlib libpython3.10-minimal libpython3.10-stdlib libreadline8 librtmp1 libruby
libsasl2-2 libsasl2-modules libsasl2-modules-db libsqlite3-0 libssh-4 libxml2 libyaml-0-2
libyaml-cpp0.7 lsb-release media-types python3 python3-minimal python3.10 python3.10-minim
readline-common ruby ruby-augeas ruby-deep-merge ruby-net-telnet ruby-rbtree ruby-rubygems
ruby-selinux ruby-shadow ruby-sorted-set ruby-webrick ruby-xmlrpc ruby3.0 rubygems-integra
zip
Suggested packages:
  augeas-doc mcollective-common puppet-common apache2 | lighttpd | httpd augeas-tools gdbm-l
libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap
libsasl2-modules-otp libsasl2-modules-sql ruby-rrd ruby-hocon python3-doc python3-tk pytho
python3.10-venv python3.10-doc binutils binfmt-support readline-doc ri ruby-dev bundler
The following NEW packages will be installed:
  augeas-lenses debconf-utils distro-info-data facter fonts-lato hiera javascript-common lib
libboost-filesystem1.74.0 libboost-locale1.74.0 libboost-log1.74.0 libboost-nowide1.74.0
libboost-program-options1.74.0 libboost-regex1.74.0 libboost-thread1.74.0 libbrotli1 libbs
```

```
root@61d44ae09538:/# cd /etc
root@61d44ae09538:/etc# apt install nano
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
hunspell
The following NEW packages will be installed:
nano
0 upgraded, 1 newly installed, 0 to remove and 4 not upgraded.
Need to get 280 kB of archives.
After this operation, 881 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 nano amd64 6.2-1 [280 kB]
Fetched 280 kB in 3s (84.5 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package nano.
(Reading database ... 10897 files and directories currently installed.)
Preparing to unpack .../archives/nano_6.2-1_amd64.deb ...
Unpacking nano (6.2-1) ...
Setting up nano (6.2-1) ...
update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/editor.1.gz because associ
sr/share/man/man1/nano.1.gz (of link group editor) doesn't exist
```

```
GNU nano 6.2 hosts
127.0.0.1 localhost
::1 localhost ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
172.17.0.3 61d44ae09538

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-
^X Exit      ^R Read File  ^_ Replace    ^U Paste      ^J Justify    ^/_ Go To Line M-
```