Puppet installation and manifest

@ Puppet installation

server-side {puppet-master configuation}

remove all puppet and its dependencies

apt-get purge puppet puppet-common

update system

apt-get update && apt-get -y upgrade && apt-get install -y nano wget

change hostname and /etc/hosts so that change the FQDN

install ntp for accurate time to sync with puppet-agents

sudo apt-get -y install ntp

service ntp restart

update the repository for get latest puppet

wget https://apt.puppetlabs.com/puppetlabs-release-trusty.deb

dpkg -i puppetlabs-release-trusty.deb

apt-get update

apt-get install puppetmaster

edit the configuration {/etc/puppet/puppet.conf} (cert and dns... for used if puppet is integrated with apache, because apache take puppet master

name as puppet not our FQDN, we do this for resolve that issue)

nano /etc/puppet/puppet.conf

#templatedir=\$confdir/templates cert=puppet

dns_alt_names=puppet,puppetmaster.biz.com

```
edit the configuration {/etc/default/puppetmaster}
nano /etc/default/puppetmaster
START=yes
service puppetmaster start
check the version
puppet -V
edit the configuration file /etc/puppet/fileserver.conf
(indeed for adding some files from master to agent)
nano /etc/puppet/fileserver.conf
#[Extra-files]
#path /etc/puppet/files
#allow *
change this to
[files]
path /etc/puppet/files
allow *
1) mkdir -p [puppet-home]/files
                                      # create a dir "files" under [puppet-home] eg :
/etc/puppet
2) add the files need to copy to agents in "files" dir
3) source => 'puppet:///files/added-item'
agent configuration {puppet-agent configuration}
remove all puppet and its dependencies
apt-get purge puppet puppet-common
update system
apt-get update && apt-get -y upgrade && apt-get install -y nano wget
```

```
change hostname and /etc/hosts so that change the FQDN
install ntp for accurate time to sync with puppet-agents
sudo apt-get -y install ntp
service ntp restart
update the repository for get latest puppet
wget https://apt.puppetlabs.com/puppetlabs-release-trusty.deb
dpkg -i puppetlabs-release-trusty.deb
apt-get update
check the time of server and agent are same or not
date
edit the configuration {/etc/puppet/puppet.conf}
(cert and dns... for used if puppet is integrated with apache, because apache take puppet master
name as puppet not our FQDN, we do this for resolve that issue)
nano /etc/puppet/puppet.conf
#templatedir=$confdir/templates
#[master]
## These are needed when the puppetmaster is run by passenger
## and can safely be removed if webrick is used.
#ssl_client_header = SSL_CLIENT_S_DN
#ssl_client_verify_header = SSL_CLIENT_VERIFY
[agent]
server=puppetmaster.biz.com
edit the configuration {/etc/default/puppetmaster}
nano /etc/default/puppetmaster
START=yes
add the master's FQDN in /etc/hosts and try to ping
nano /etc/hosts
```

ping puppetmaster.biz.com

establish the connection from client side by sending ssl key
puppet agent -t

list all certificates
puppet cert list —all
it will shows some certs but accepted certificates have "+" sign in the first line.
puppet cert sign puppet-agent-name

check from the client side
puppet agentfingerprint

configure the manifest
nano /etc/puppet/manifests/site.pp

after creating manifest, run the agent for testing
puppet agent -t
links::
https://www.howtoforge.com/puppet-ubuntu-14.04

```
@ manifest
code writing
resource_type { 'resource_name'
attribute => value
class name
..code..
single node
node 'node-name',
..code..
include class
multiple nodes
node 'node-name-1', 'node-name-2', 'node-name-3',
..code..
include class
```

```
multiple nodes ending with digits
(eg: www1,www32,www645)
node /named+$/,
node /\wedge www d+\$/
..code..
or
include class
multiple nodes having some common name
(eg: www.example,zzz.example)
node /^(node-1|node-2|...node-n).name$/
node /^(www|zzz)\.example$/
..code..
or
include class
}
useradding
user {'name',
ensure => 'present',
uid => '1500',
gid = > '1500',
shell => '/bin/bash',
home => '/home/name'
require => group['name'],
                             # require that group adding before executing
require => class['class-name'],
create file or directory
file {'/path/name':
ensure => 'directory',
                              # change directory to file if need file
                              #this will append to that file
content => 'hai',
owner => 'name',
group => 'name',
mode => '0777',
}
```

```
to create a group
group {'name':
ensure => present,
gid = > '1500',
to updating or do some command
exec { 'apt-update':
                          # exec resource named 'apt-update'
command => '/bin/apt-get update', # command this resource will run
}
using scripts we can make it more confort
class mysql
file {'/home/mysql.sh':
ensure => 'file',
source => 'puppet:///files/mysql.sh',
mode => 0777
}
exec {'mysql':
command => '/home/mysql.sh',
}
}
node 'puppet-1'
include mysql
```

links:

https://docs.puppet.com/puppet/latest/reference/lang_node_definitions.html

source command >>>

http://askubuntu.com/questions/90015/how-to-copy-files-to-all-machines-using-puppet-master

full resource info >>

 $\underline{https://docs.puppet.com/puppet/3.8/reference/type.html}$