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- Linux?CentOS 6.8 64-bit, Minimal ISO
- Puppet?Puppet 3.8

IP/Hostname

- master.my.lab / 192.168.31.100
- node.my.lab / 192.168.31.101

Puppet Master?Server???

?? hosts ? hostname

```
#> /etc/sysconfig/network
```

```
HOSTNAME=master.my.lab
```

```
#> vi /etc/hosts
```

```
192.168.31.100 master.mylab.com
```

```
192.168.31.101 node.mylab.com
```

??????

```
#> yum install ntpdate
```

```
#> vi /etc/cron.hourly/ntpdate.cron
```

```
#!/bin/sh
```

```
/usr/sbin/ntpdate tock.stdtime.gov.tw &> /dev/null
```

```
#> chmod 0755 /usr/sbin/ntpdate
```

????

```
#> rpm -ivh https://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm
```

```
#> yum install puppetserver
```

???????

```
#> vi /etc/sysconfig/puppetserver
```

```
JAVA_ARGS="-Xms512m -Xmx512m -XX:MaxPermSize=256m"
```

TIPs:

?? puppet server ???? 2G ?????????????????????????????????

?? puppetserver

```
#> service puppetserver start
```

TIP:

???????????? /var/log/puppetserver/puppetserver.log

??????

```
# ps -ef | grep puppetserver
puppet 1049 1 17 19:05 ? 00:00:59 /usr/bin/java -XX:OnOutOfMemoryError=kill -9 %p
-Djava.security.egd=/dev/urandom -Xms512m -Xmx512m -XX:MaxPermSize=256m -cp /usr/share/
puppetserver/puppet-server-release.jar clojure.main -m puppetlabs.trapperkeeper.main --config /etc/
puppetserver/conf.d -b /etc/puppetserver/bootstrap.cfg
```

```
# netstat -lt
```

```
tcp 0 0 *:8140 *.* LISTEN
```

```
#> puppet master --version
3.8.7
```

?? puppet.conf

```
#> vi /etc/puppet/puppet.conf
```

```
dns_alt_names = master.my.lab
```

TIP:

dns_alt_names ???? DNS ??????????

CA Master????? Master ??? CA ???

```
#> service puppetserver stop
#> puppet master --verbose --no-daemonize
```

???? Notice: Starting Puppet master version 3.8.7

? Ctrl + C ????

```
#> service puppetserver start
```

```
#> puppet cert list -all
```

```
+ "master.my.lab" (SHA256)
```

```
10:3F:81:4C:D9:59:E8:35:43:15:32:D9:DA:AF:67:84:9F:77:3A:D7:32:0B:EE:55:BD:A7:DA:64:A3:D5:5C:32 (alt
names: "DNS:master.my.lab")
```

?? Non-CA Master???? CA ???

```
#> puppet agent --test --ca_server= master.my.lab
```

? CA Master ??

```
#> puppet cert --allow-dns-alt-names sign <CERT-NAME>
```

TIP:

CERT-NAME ??? puppet cert list ??

Puppet Agent?Client????

?? hosts ? hostname

```
#> /etc/sysconfig/network
```

```
HOSTNAME=node.my.lab
```

```
#> vi /etc/hosts
```

```
192.168.31.100 master.mylab.com
```

```
192.168.31.101 node.mylab.com
```

??????

```
#> yum install ntpdate
```

```
#> vi /etc/cron.hourly/ntpdate.cron
```

```
#!/bin/sh
```

```
/usr/sbin/ntpdate tock.stdtime.gov.tw &> /dev/null
```

```
#> chmod 0755 /etc/cron.hourly/ntpdate.cron
```

????

```
#> rpm -ivh https://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm
#> yum install puppet
```

```
#> puppet --version
3.8.7
```

```
Master ? Node ?????
? Node ?????
```

```
#> puppet agent --server=master.my.lab --no-daemonize --verbose
Info: Creating a new SSL key for node.my.lab
Info: csr_attributes file loading from /etc/puppet/csr_attributes.yaml
Info: Creating a new SSL certificate request for node.my.lab
Info: Certificate Request fingerprint (SHA256):
B4:6D:AC:A7:DC:DE:70:2E:31:0E:59:09:14:01:BB:68:C6:67:48:42:43:C4:5A:1B:27:71:05:BF:A2:71:76:AB
```

```
? Master ?????
```

```
#> puppet cert list
"node.my.lab" (SHA256)
B4:6D:AC:A7:DC:DE:70:2E:31:0E:59:09:14:01:BB:68:C6:67:48:42:43:C4:5A:1B:27:71:05:BF:A2:71:76:AB
```

```
???? node ???
```

```
#> puppet cert sign node.my.lab
Notice: Signed certificate request for node.my.lab
Notice: Removing file Puppet::SSL::CertificateRequest node.my.lab at '/var/lib/puppet/ssl/ca/requests/node.my.lab.pem'
```

```
#> puppet cert list -all
+ "master.my.lab" (SHA256)
84:68:51:7B:6D:BF:8F:A2:A6:2B:8D:78:8D:2B:64:B1:E6:64:08:7B:00:78:CE:22:4D:1E:33:6A:8B:F9:EE:4F (alt
names: "DNS:puppet", "DNS:master.my.lab")
+ "node.my.lab" (SHA256)
56:CF:88:D7:1D:C5:9B:BD:9E:EA:8C:F2:D7:06:07:09:CE:00:CC:10:75:B5:C3:04:08:6F:32:71:CA:6E:ED:15
```

```
? Node ??????
```

```
#> puppet agent --server=master.my.lab --no-daemonize --verbose
Notice: Starting Puppet client version 3.8.7
Info: Retrieving pluginfacts
Info: Retrieving plugin
Info: Caching catalog for node.my.lab
Info: Applying configuration version '1473517210'
Notice: Finished catalog run in 0.09 seconds
```

```
? Ctrl + C ??
```

TIP:

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Warning: Unable to fetch my node definition, but the agent run will continue:

Warning: undefined method `include?' for nil:NilClass

?????????

????? Node ? Master ??????? Node ???

```
# puppet agent --test
```

```
Info: Retrieving pluginfacts
```

```
Info: Retrieving plugin
```

```
Info: Caching catalog for node.my.lab
```

```
Info: Applying configuration version '1473589349'
```

```
Notice: Finished catalog run in 0.12 seconds
```

????

? Node ?

```
#> find /var/lib/puppet/ssl -name node.my.lab.pem -exec rm -f {} \;
```

? Master ?

```
#> puppet cert list -all
```

```
#> puppet cert clean <CERT-NAME>
```

```
???????? Note ????????? /tmp/puppet.txt
```

? Node ??

```
#> vi /etc/puppet/puppet.conf
```

```
[main]
```

```
...
```

```
[agent]
```

```
...
```

```
server = master.my.lab
```

```
runinterval = 5
```

????

```
#> service puppet start
```

? Master ?

```
# vi /etc/puppet/manifests/site.pp
```

```
file {"/tmp/puppet.txt":  
  content => "puppet test\n",  
}
```

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<https://docs.puppet.com/puppet/3.8/reference/>