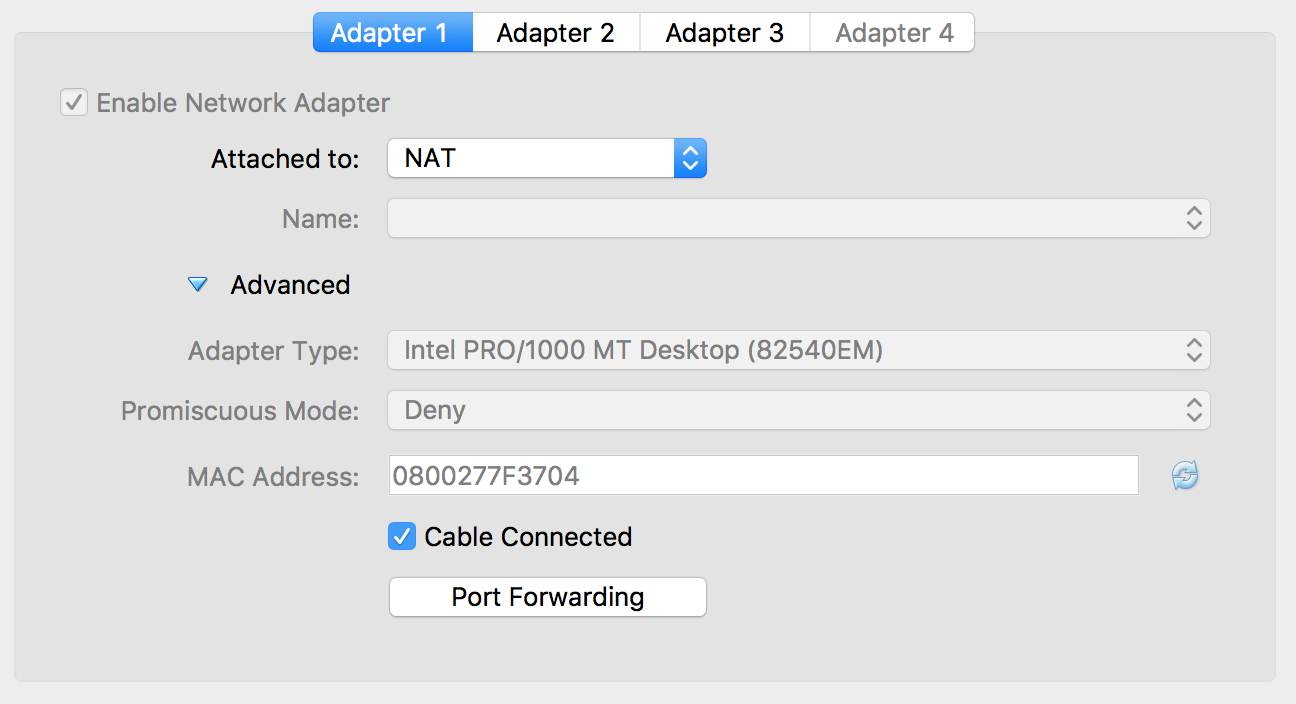
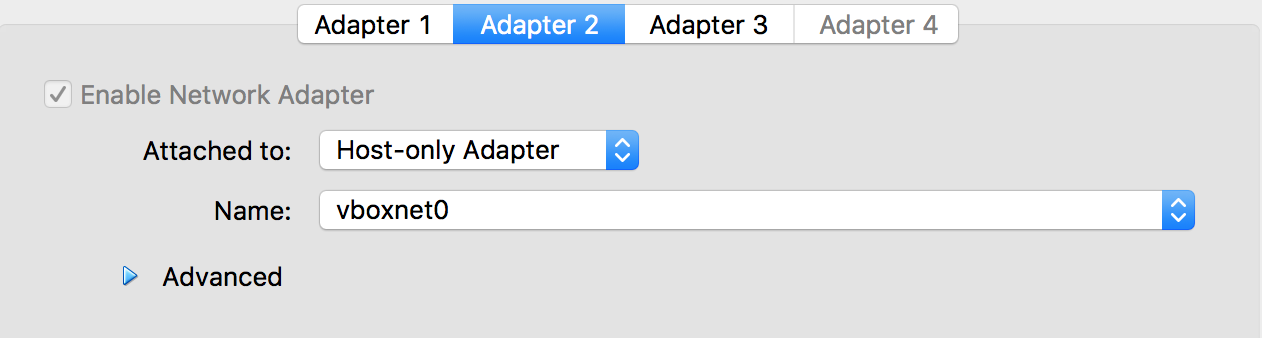
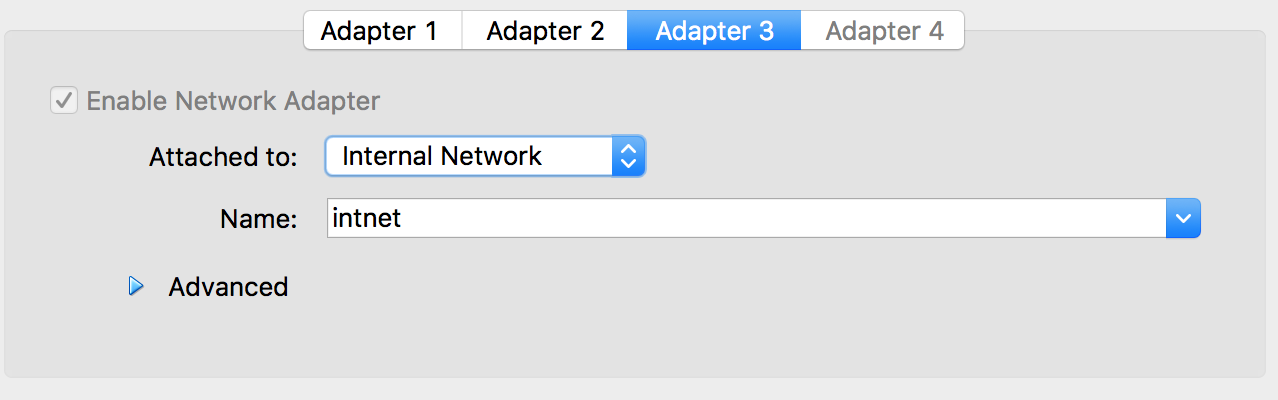
Kerberos server set up –







[root@kerberos ~]# hostnamectl set-hostname kerberos.example.com

[root@kerberos ~]# ip addr

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN qlen 1

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid\_lft forever preferred\_lft forever

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

link/ether 08:00:27:7f:37:04 brd ff:ff:ff:ff:ff:ff

inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3

valid\_lft 85612sec preferred\_lft 85612sec

inet6 fe80::feef:4c29:81ae:efa9/64 scope link

valid\_lft forever preferred\_lft forever

3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

link/ether 08:00:27:ec:ef:36 brd ff:ff:ff:ff:ff:ff

inet 192.168.99.101/24 brd 192.168.99.255 scope global dynamic enp0s8

valid\_lft 922sec preferred\_lft 922sec

inet6 fe80::df54:7e83:4421:75fa/64 scope link

valid\_lft forever preferred\_lft forever

4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

link/ether 08:00:27:b4:16:99 brd ff:ff:ff:ff:ff:ff

[root@kerberos ~]# rpm -qa | grep krb

krb5-workstation-1.14.1-27.el7\_3.x86\_64

krb5-libs-1.14.1-27.el7\_3.x86\_64

krb5-server-1.14.1-27.el7\_3.x86\_64

pam\_krb5-2.4.8-6.el7.x86\_64

Step 1 :

/etc/krb5.conf

# Configuration snippets may be placed in this directory as well

includedir /etc/krb5.conf.d/

[logging]

default = FILE:/var/log/krb5libs.log

kdc = FILE:/var/log/krb5kdc.log

admin\_server = FILE:/var/log/kadmind.log

[libdefaults]

dns\_lookup\_realm = true

dns\_lookup\_kdc = true

dns\_fallback = yes

ticket\_lifetime = 24h

renew\_lifetime = 7d

forwardable = true

rdns = false

default\_realm = EXAMPLE.COM

# default\_ccache\_name = KEYRING:persistent:%{uid}

[realms]

EXAMPLE.COM = {

kdc = kerberos.example.com

admin\_server = kerberos.example.com

default\_domain = EXAMPLE.COM

}

[domain\_realm]

.EXAMPLE.COM = EXAMPLE.COM

EXAMPLE.COM = EXAMPLE.COM

[appsdefaults]

pam = {

debug = false

ticket\_lifetime = 36000

renew\_lifetime = 36000

forwardable = true

krb4\_convert = false

}

step 2:

/etc/hosts

127.0.0.1 localhost

192.168.99.101 kerberos.example.com kerberos

192.168.99.102 maprdemo.example.com maprdemo

step 3 :

[root@kerberos ~]# vi /var/kerberos/krb5kdc/kdc.conf

[kdcdefaults]

kdc\_ports = 88

kdc\_tcp\_ports = 88

[realms]

EXAMPLE.COM = {

master\_key\_type = aes256-cts

acl\_file = /var/kerberos/krb5kdc/kadm5.acl

dict\_file = /usr/share/dict/words

admin\_keytab = /var/kerberos/krb5kdc/kadm5.keytab

supported\_enctypes = aes256-cts:normal aes128-cts:normal des3-hmac-sha1:normal arcfour-hmac:normal camellia256-cts:normal camellia128-cts:normal des-hmac-sha1:normal des-cbc-md5:normal des-cbc-crc:normal

}

[root@kerberos ~]# vi /var/kerberos/krb5kdc/kadm5.acl

\*/admin@EXAMPLE.COM \*

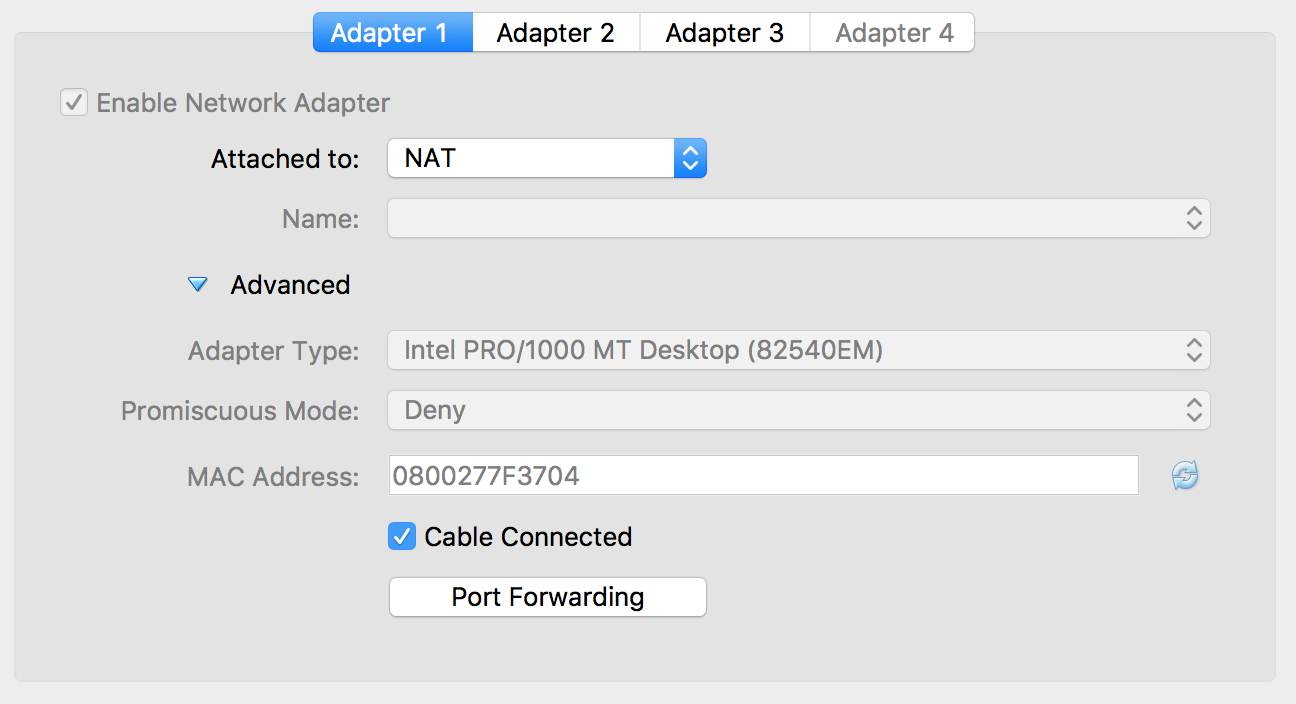
[root@kerberos ~]# kdb5\_util create -s -r EXAMPLE.COM

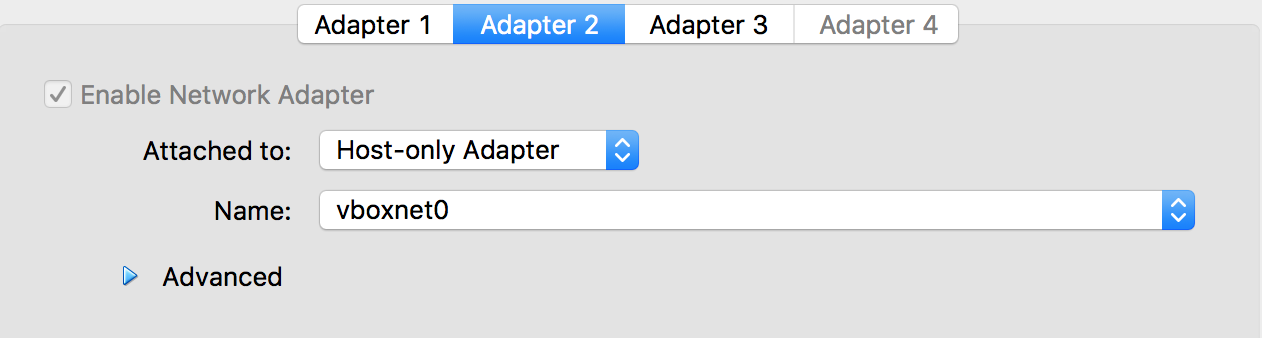
[root@kerberos ~]# service kadmin restart

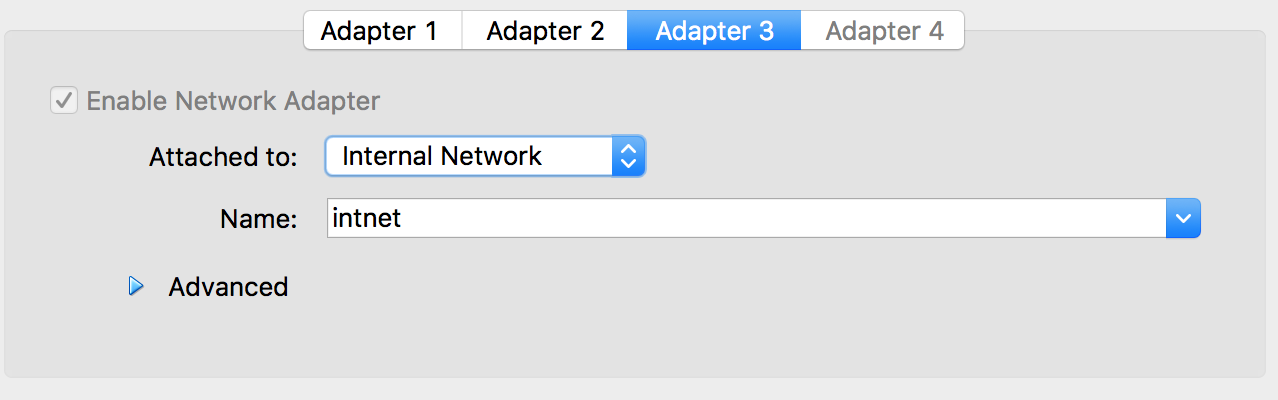
[root@kerberos ~]# service krb5kdc restart

[root@kerberos ~]# kdb5\_util -r EXAMPLE.COM

Kerberos Client Set up:







[root@kerberos ~]# hostnamectl set-hostname kerberos.example.com

[root@kerberos ~]# ip addr

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN qlen 1

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid\_lft forever preferred\_lft forever

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

link/ether 08:00:27:7f:37:04 brd ff:ff:ff:ff:ff:ff

inet 10.0.2.16/24 brd 10.0.2.255 scope global dynamic enp0s3

valid\_lft 85612sec preferred\_lft 85612sec

inet6 fe80::feef:4c29:81ae:efa9/64 scope link

valid\_lft forever preferred\_lft forever

3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

link/ether 08:00:27:ec:ef:36 brd ff:ff:ff:ff:ff:ff

inet 192.168.99.102/24 brd 192.168.99.255 scope global dynamic enp0s8

valid\_lft 922sec preferred\_lft 922sec

inet6 fe80::df54:7e83:4421:75fa/64 scope link

valid\_lft forever preferred\_lft forever

4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

[root@kerberos ~]# rpm -qa | grep krb

krb5-workstation-1.14.1-27.el7\_3.x86\_64

krb5-libs-1.14.1-27.el7\_3.x86\_64

Step 1 :

/etc/krb5.conf

# Configuration snippets may be placed in this directory as well

includedir /etc/krb5.conf.d/

[logging]

default = FILE:/var/log/krb5libs.log

kdc = FILE:/var/log/krb5kdc.log

admin\_server = FILE:/var/log/kadmind.log

[libdefaults]

dns\_lookup\_realm = true

dns\_lookup\_kdc = true

dns\_fallback = yes

ticket\_lifetime = 24h

renew\_lifetime = 7d

forwardable = true

rdns = false

default\_realm = EXAMPLE.COM

# default\_ccache\_name = KEYRING:persistent:%{uid}

[realms]

EXAMPLE.COM = {

kdc = kerberos.example.com

admin\_server = kerberos.example.com

default\_domain = EXAMPLE.COM

}

[domain\_realm]

.EXAMPLE.COM = EXAMPLE.COM

EXAMPLE.COM = EXAMPLE.COM

[appsdefaults]

pam = {

debug = false

ticket\_lifetime = 36000

renew\_lifetime = 36000

forwardable = true

krb4\_convert = false

}

step 2:

/etc/hosts

127.0.0.1 localhost

192.168.99.101 kerberos.example.com kerberos

192.168.99.102 maprdemo.example.com maprdemo

Follow the steps given in below link

<http://maprdocs.mapr.com/home/SecurityGuide/Configuring-Kerberos-User-Authentication.html>

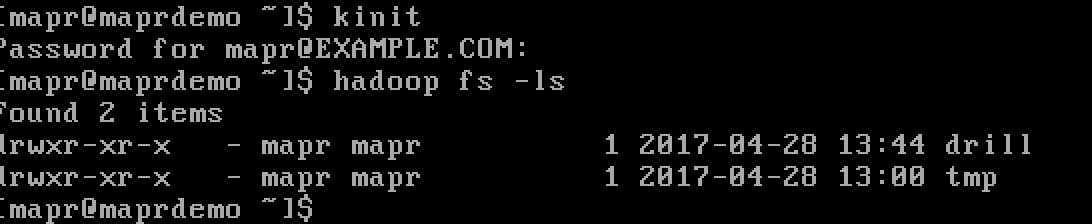
<http://maprdocs.mapr.com/home/SecurityGuide/Configuring-Kerberos-User-Authentication.html#ConfiguringKerberosUserAuthentication>

[mapr@kerberos ~]# Kinit

[mapr@kerberos ~]# maprlogin password



[mapr@kerberos ~]# Hadoop fs -ls



<http://maprdocs.mapr.com/home/HBase/configuring_hbase_to_use_kerberos.html?hl=kerberos>