

What is Kerberos?

Kerberos is a network authentication protocol. It is designed to provide strong authentication for client/server applications by using secret-key cryptography. Kerberos is available in many commercial products as well.

- Developed at MIT in the mid 1980s (Massachusetts Institute of Technology)
- Available as open source or in supported commercial software
- also call as three-headed guard (dog)

```
kerberos      88/tcp          # Kerberos V5 KDC
kerberos-adm  749/tcp        # Kerberos 5 admin/changepw
```

```
=====
Configure Kerberos Server
-----
```

```
# Required :- NIS server configure and DO NOT set the nis user Password in NIS server
# DNS server required
# time stamp.... (time match)
# iptables -F
* REQUIRED PACKAGE:- 1) krb5-server      (Server site)
                   2) krb5-workstation (client site)
                   3) krb5-libs        (both site)
```

```
OK....
```

```
#### How to configure Kerberos server #####
```

```
# yum install krb5-server krb5-workstation krb5-libs -y
# vim /etc/krb5.conf
```

```
[libdefaults]
default_realm = EXAMPLE.COM
```

```
[realms]
EXAMPLE.COM
```

```
kdc_server = 192.168.0.254:88
admin_server = 192.168.0.254:749
```

```
[domain_realm]
.EXAMPLE.COM = EXAMPLE.COM
EXAMPLE.COM = EXAMPLE.COM
```

```
:wq
```

```
# vim /var/kerberos/krb5kdc/kdc.conf
```

```
[realms]
remove # mark master_key_type line
```

```
add line
```

```
default_principal_flags = +preauth
```

```
:wq
```

```
# kdb5_utils create -r EXAMPLE.COM -s
```

```
# yum install readline* -y
```

```
# kadmin.local
```

```
: ktadd -k /var/kerberos/krb5kdc/kadm5.keytab kadmin/admin kadmin/changepw
(add kadmin user principal to keytab file )
```

```
: addprinc root/admin          [to add root principal]
: listprinc                    [to list principal]
: addprinc nis3                [to add nis user principal]
  redhat                      [password set]
  redhat
: addprinc nis4                [to add nis user principal]
  redhat                      [set password]
  redhat

: listprinc

quit

# service kadmind restart
# service krb5kdc restart
# chkconfig kadmind on
# chkconfig krb5kdc on

# scp /etc/krb5.conf root@192.168.0.3:/etc [krb5.conf file copy to client machine]
=====
Client site:-
=====

# authconfig-tui

[*] Use NIS
[*] kerberos server

NEXT

OK

# su - nis3
# su - nis4

=====
```