5

Remote Authentication

# Remote Server / Host Access using SSH

## How to do it…

1. sudo apt-get install openssh-server
2. sudo apt-get install openssh-client
3. sudo service ssh start
4. ssh remote\_ip\_address
5. ssh username@remote\_ip\_address
6. sudo cp /etc/ssh/sshd\_config{,.bak}
7. ssh -p port\_numberremote\_ip\_address

# SSH Root Login Disable or Enable

## How to do it…

1. sudo nano /etc/ssh/sshd\_config

PermitRootLogin no

1. sudo service ssh restart
2. ssh root@192.168.1.103
3. ssh tajinder@192.168.1.103
4. whoami
5. su root
6. whoami
7. sudo service ssh restart
8. ssh root@192.168.1.103

## There’s more…

1. sudo nano /etc/ssh/sshd\_config
2. Add the line –

AllowUsers tajinder user1

1. Now restart the ssh service

sudo service ssh restart

1. ssh user1@192.168.1.103
2. ssh user2@192.168.1.103

# Key based Login into SSHfor restricting Remote Access

## How to do it...

1. ssh-keygen-t rsa
2. cd ~/.ssh/
3. ls -l
4. ssh-copy-id 192.168.1.101
5. ssh 192.168.1.101

# Copying Files Remotely

## How to do it...

1. scp myfile.txt tajinder@sshserver.com:~Desktop/
2. scp –r mydata/ tajinder@sshserver.com:~Desktop/
3. scp –r tajinder@sshserver.com:/home/tajinder/Desktop/newfile.txt .
4. sftp tajinder@sshserver.com
5. get sample.txt /home/tajinder/Desktop

# Setting Up a Kerberos server with Ubuntu

## Getting Started

Edit the /etc/hosts file in each system and add the following details –

192.168.1.106 sshclient.com

192.168.1.101 sshserver.com

192.168.1.110 mykerberos.com

## How to do it...

1. sudo apt-get install krb5-admin-server krb5-kdc
2. sudo krb5\_realm
3. nano /etc/krb5.conf.
4. Go to “libdefaults” section in the file and modify the value as shown –

default\_realm = MYKERBEROS.COM

1. Move down to the “realms” section and modify the details as shown –

[realms]

MYKERBEROS.COM = {

kdc = mykerberos.com

admin\_server = mykerberos.com

}

1. Next go to “domain\_realm” section and enter the lines as shown –

mykerberos.com = MYKERBEROS.COM

.mykerberos.com = MYKERBEROS.COM

1. sudo kadmin.local
2. list princs
3. addprinc tajinder
4. addprinc root/admin
5. kinit
6. sudo apt-get install krb5-user
7. kinit root/admin
8. sudo apt-get install openssh-server krb5-config
9. sudo service ssh restart
10. kadmin.local
11. addprinc -randkey host/sshserver.com
12. ktadd -k /tmp/sshserver.com.keytab host/sshserver.com
13. sudo scp /tmp/sshserver.com.keytab tajinder@sshserver.com:/tmp/krb5.keytab
14. GSSAPIAuthentication yes

GSSAPIDelegateCredentials yes

1. kinit tajinder
2. ssh sshserver.com