

Sistem Operasi
(LAPORAN PRAKTIKUM 12 Manajemen Aplikasi)

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1707051018

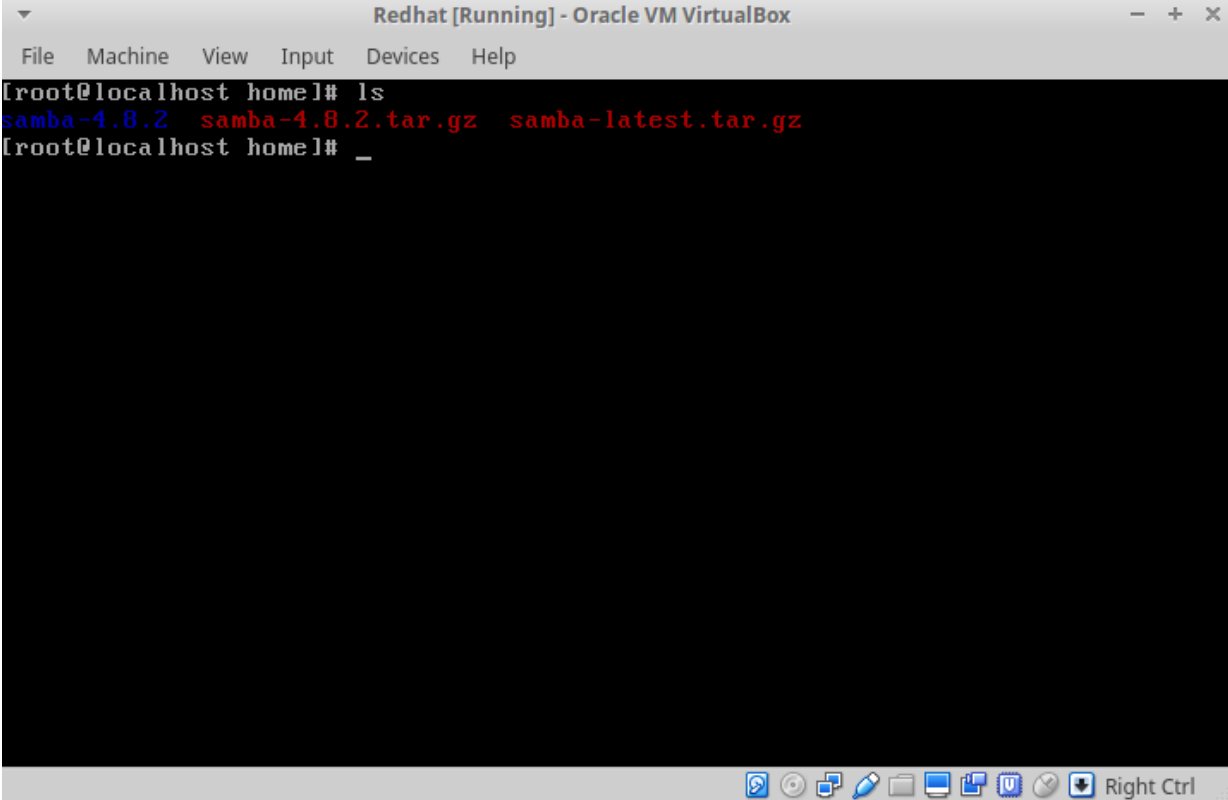


PROGRAM STUDI D3 MANAJEMEN INFORMATIKA
JURUSAN ILMU KOMPUTER
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN
UNIVERSITAS LAMPUNG
2018

Pada kesempatan kali ini saya akan mengimplementasikan Manajemen Aplikasi pada Manajemen Paket RPM (Redhat Packet Management) disini saya menggunakan Sistem Operasi CentOS yang berbasis Redhat
Ini merupakan hasil percobaan saya

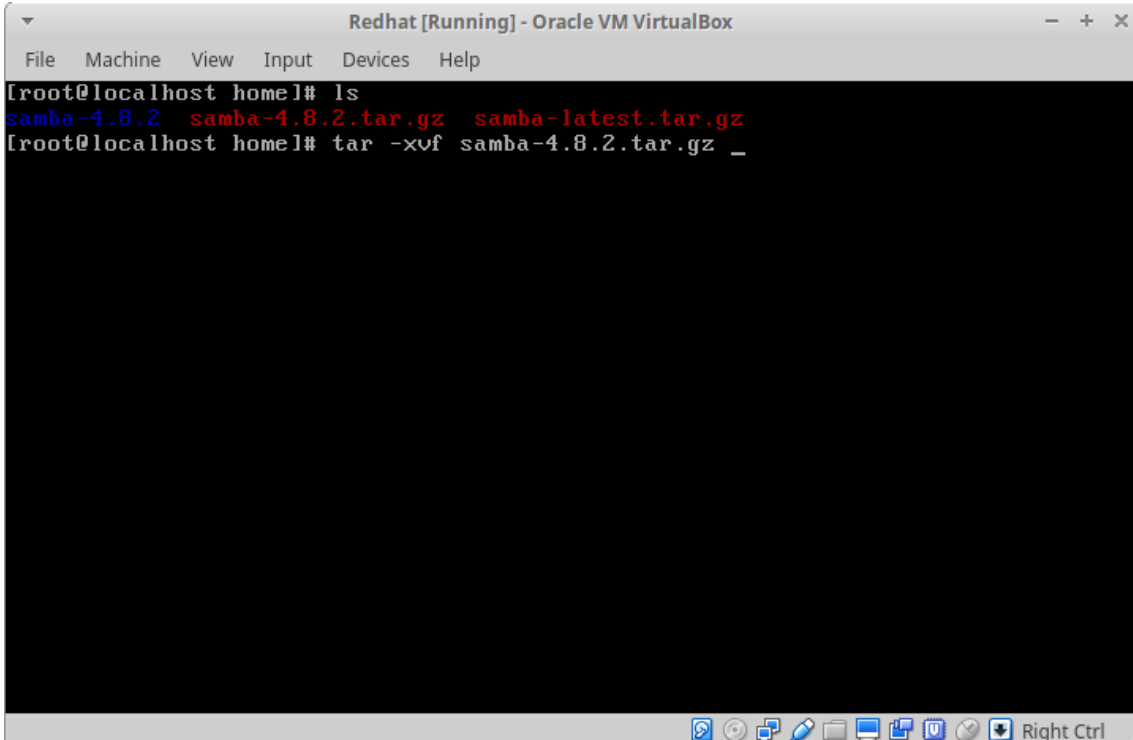
PERCOBAAN PERTAMA RPM QUERY

1. Pada percobaan ini kita diminta mendownload file samba pada website <http://samba.org>
Bagaimana cara mendownload nya? Dengan menggunakan perintah **wget**
<http://download.samba.org/pub/samba/samba-latest.tar.gz> maka otomatis terdownload dan masuk ke direktori home

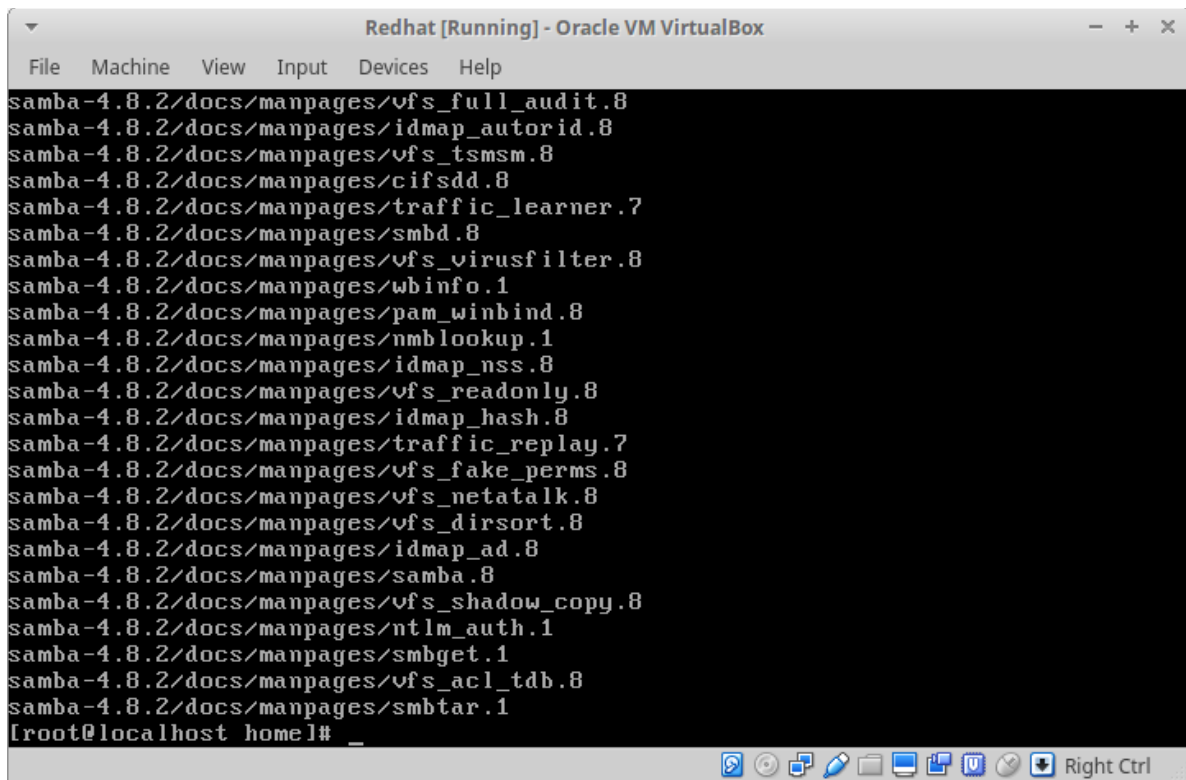


```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# ls
samba-4.8.2  samba-4.8.2.tar.gz  samba-latest.tar.gz
[root@localhost home]# _
```

2. Ekstrak file samba menggunakan file tar

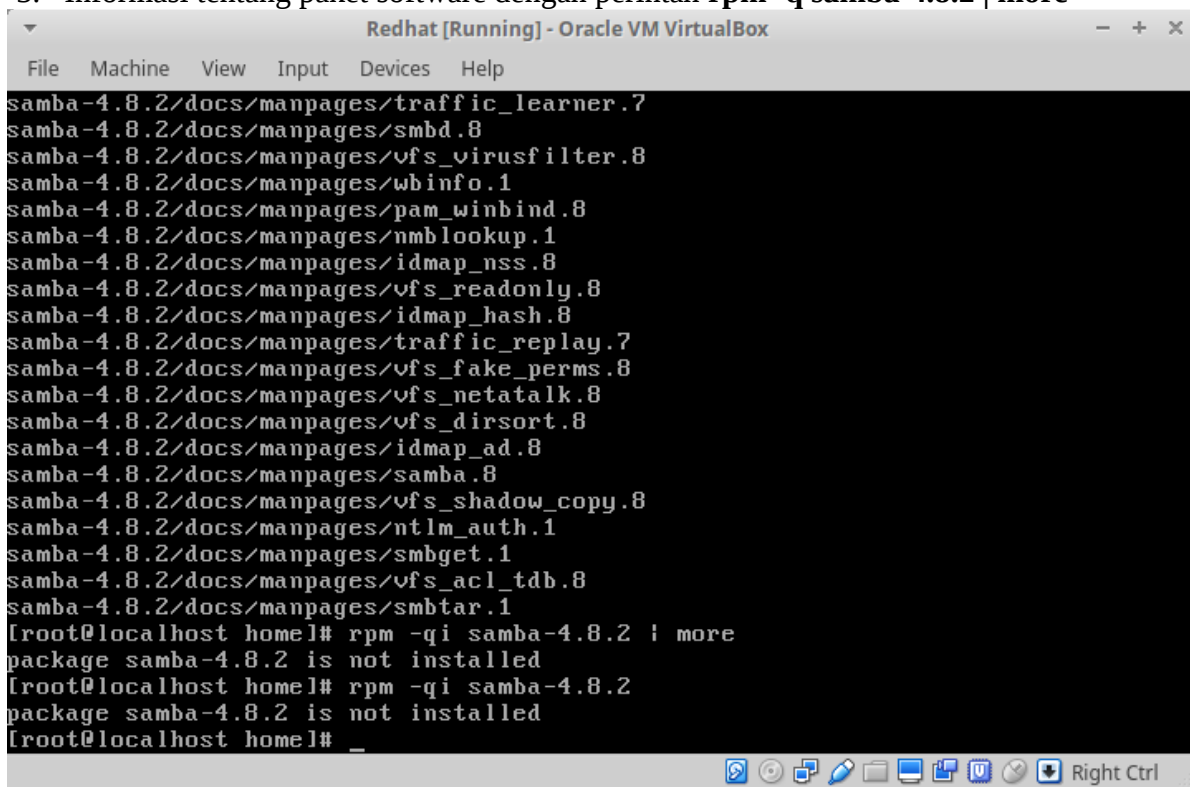


```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# ls
samba-4.8.2  samba-4.8.2.tar.gz  samba-latest.tar.gz
[root@localhost home]# tar -xvf samba-4.8.2.tar.gz _
```



```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
samba-4.8.2/docs/manpages/vfs_full_audit.8
samba-4.8.2/docs/manpages/idmap_autorid.8
samba-4.8.2/docs/manpages/vfs_tsm.8
samba-4.8.2/docs/manpages/cifsdd.8
samba-4.8.2/docs/manpages/traffic_learner.7
samba-4.8.2/docs/manpages/smbd.8
samba-4.8.2/docs/manpages/vfs_virusfilter.8
samba-4.8.2/docs/manpages/wbinfo.1
samba-4.8.2/docs/manpages/pam_winbind.8
samba-4.8.2/docs/manpages/nmblookup.1
samba-4.8.2/docs/manpages/idmap_nss.8
samba-4.8.2/docs/manpages/vfs_readonly.8
samba-4.8.2/docs/manpages/idmap_hash.8
samba-4.8.2/docs/manpages/traffic_replay.7
samba-4.8.2/docs/manpages/vfs_fake_perms.8
samba-4.8.2/docs/manpages/vfs_netatalk.8
samba-4.8.2/docs/manpages/vfs_dirsort.8
samba-4.8.2/docs/manpages/idmap_ad.8
samba-4.8.2/docs/manpages/samba.8
samba-4.8.2/docs/manpages/vfs_shadow_copy.8
samba-4.8.2/docs/manpages/ntlm_auth.1
samba-4.8.2/docs/manpages/smbget.1
samba-4.8.2/docs/manpages/vfs_acl_tdb.8
samba-4.8.2/docs/manpages/smbtar.1
[root@localhost home]#
```

3. Informasi tentang paket software dengan perintah **rpm -q samba-4.8.2 | more**



```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
samba-4.8.2/docs/manpages/traffic_learner.7
samba-4.8.2/docs/manpages/smbd.8
samba-4.8.2/docs/manpages/vfs_virusfilter.8
samba-4.8.2/docs/manpages/wbinfo.1
samba-4.8.2/docs/manpages/pam_winbind.8
samba-4.8.2/docs/manpages/nmblookup.1
samba-4.8.2/docs/manpages/idmap_nss.8
samba-4.8.2/docs/manpages/vfs_readonly.8
samba-4.8.2/docs/manpages/idmap_hash.8
samba-4.8.2/docs/manpages/traffic_replay.7
samba-4.8.2/docs/manpages/vfs_fake_perms.8
samba-4.8.2/docs/manpages/vfs_netatalk.8
samba-4.8.2/docs/manpages/vfs_dirsort.8
samba-4.8.2/docs/manpages/idmap_ad.8
samba-4.8.2/docs/manpages/samba.8
samba-4.8.2/docs/manpages/vfs_shadow_copy.8
samba-4.8.2/docs/manpages/ntlm_auth.1
samba-4.8.2/docs/manpages/smbget.1
samba-4.8.2/docs/manpages/vfs_acl_tdb.8
samba-4.8.2/docs/manpages/smbtar.1
[root@localhost home]# rpm -qi samba-4.8.2 | more
package samba-4.8.2 is not installed
[root@localhost home]# rpm -qi samba-4.8.2
package samba-4.8.2 is not installed
[root@localhost home]#
```

4. Instal dari CDROM, bukan dari paket yang sudah diinstalasi. Untuk itu pindah direktori ke tempat dimana file rpm tersebut berada
5. Melihat files apa saja yang sudah diinstalasi, gunakan sub-opsi -l.

```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
samba-4.8.2/docs/manpages/vfs_virusfilter.8
samba-4.8.2/docs/manpages/wbinfo.1
samba-4.8.2/docs/manpages/pam_winbind.8
samba-4.8.2/docs/manpages/nmblookup.1
samba-4.8.2/docs/manpages/idmap_nss.8
samba-4.8.2/docs/manpages/vfs_readonly.8
samba-4.8.2/docs/manpages/idmap_hash.8
samba-4.8.2/docs/manpages/traffic_replay.7
samba-4.8.2/docs/manpages/vfs_fake_perms.8
samba-4.8.2/docs/manpages/vfs_netatalk.8
samba-4.8.2/docs/manpages/vfs_dirsort.8
samba-4.8.2/docs/manpages/idmap_ad.8
samba-4.8.2/docs/manpages/samba.8
samba-4.8.2/docs/manpages/vfs_shadow_copy.8
samba-4.8.2/docs/manpages/ntlm_auth.1
samba-4.8.2/docs/manpages/smbget.1
samba-4.8.2/docs/manpages/vfs_acl_tdb.8
samba-4.8.2/docs/manpages/smbtar.1
[root@localhost homel# rpm -qi samba-4.8.2 | more
package samba-4.8.2 is not installed
[root@localhost homel# rpm -qi samba-4.8.2
package samba-4.8.2 is not installed
[root@localhost homel# rpm -ql samba-4.8.2
package samba-4.8.2 is not installed
[root@localhost homel# _
```

6. Melihat file konfigurasi dengan perintah **rpm -qc samba-4.8.2 | more**

```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
samba-4.8.2/docs/manpages/pam_winbind.8
samba-4.8.2/docs/manpages/nmblookup.1
samba-4.8.2/docs/manpages/idmap_nss.8
samba-4.8.2/docs/manpages/vfs_readonly.8
samba-4.8.2/docs/manpages/idmap_hash.8
samba-4.8.2/docs/manpages/traffic_replay.7
samba-4.8.2/docs/manpages/vfs_fake_perms.8
samba-4.8.2/docs/manpages/vfs_netatalk.8
samba-4.8.2/docs/manpages/vfs_dirsort.8
samba-4.8.2/docs/manpages/idmap_ad.8
samba-4.8.2/docs/manpages/samba.8
samba-4.8.2/docs/manpages/vfs_shadow_copy.8
samba-4.8.2/docs/manpages/ntlm_auth.1
samba-4.8.2/docs/manpages/smbget.1
samba-4.8.2/docs/manpages/vfs_acl_tdb.8
samba-4.8.2/docs/manpages/smbtar.1
[root@localhost homel# rpm -qi samba-4.8.2 | more
package samba-4.8.2 is not installed
[root@localhost homel# rpm -qi samba-4.8.2
package samba-4.8.2 is not installed
[root@localhost homel# rpm -ql samba-4.8.2
package samba-4.8.2 is not installed
[root@localhost homel# rpm -qc samba-4.8.2 | more
package samba-4.8.2 is not installed
[root@localhost homel# _
```

7. Melihat dokumentasi file **rpm -qd samba | more**

8. Melihat script file yang digunakan untuk instalasi. Perhatikan bahwa hasil output tergantung atas versi Linux yang digunakan **rpm -q --scripts samba-4.8.2**

PERCOBAAN 2 MENGHAPUS PAKET

1. Opsi `-e` digunakan untuk menghapus paket yang sudah instalasi. Bila ada ketergantungan paket lain atas paket yang akan dihapus, maka RPM membatalkan penghapusan tersebut

```
rpm -q apache
```

```
rpm -e apache
```

2. Paket apache tidak bisa dihapus karena masih ada paket lain yang tergantung atas paket tersebut, yaitu modul PHP. Maka paket `mod_php3` harus dihapus lebih dahulu

```
rpm -e mod_php3
```

3. Setelah itu paket apache baru bisa dihapus

```
rpm -e mod_php3
```

```
rpm -q --scripts samba
```

PERCOBAAN 3 MENGGUNAKAN TAR

1. Logout dari root dan login sebagai `< user >`.

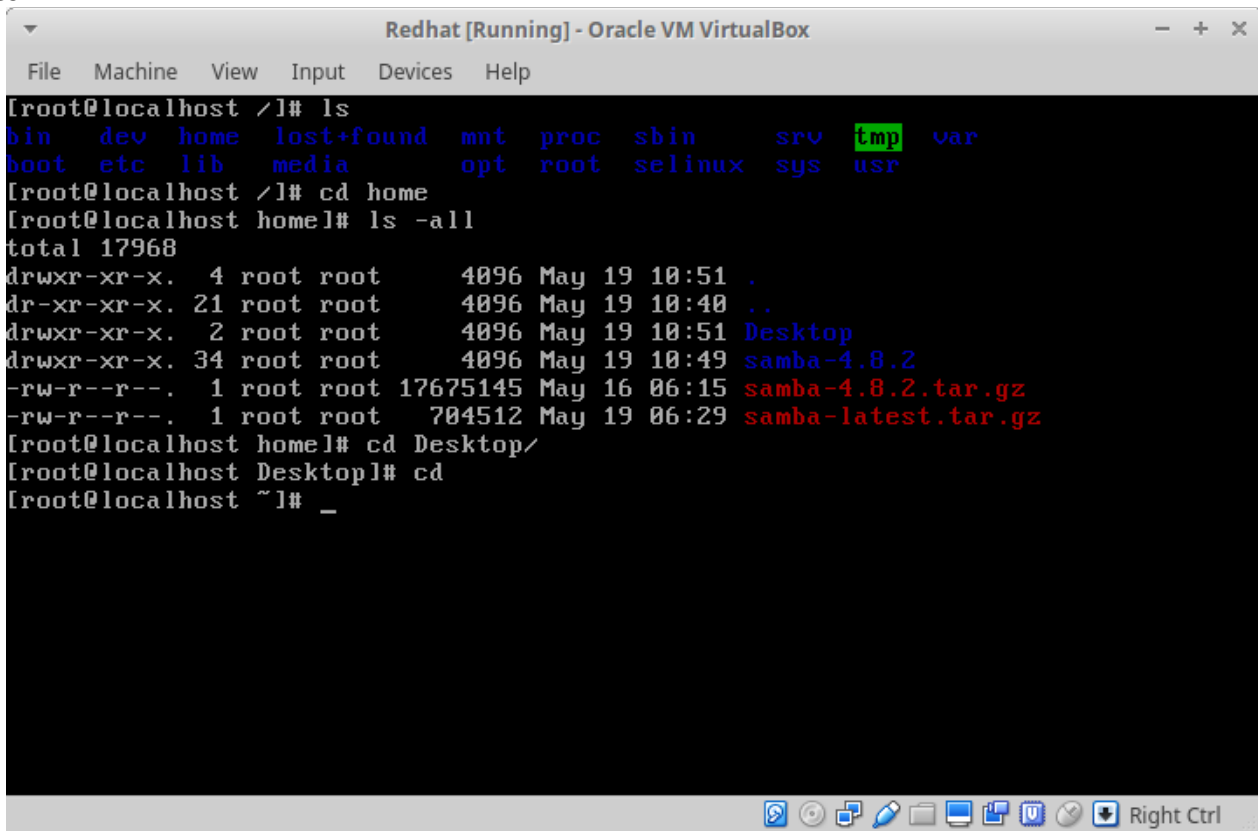
2. Pastikan berada pada home directory. Dan lihatlah isi home direktori Pindah ke direktori Desktop. Setelah itu kembali ke home direktori

```
cd
```

```
ls -al
```

```
cd Desktop
```

```
cd
```



```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost ~]# ls
bin  dev  home  lost+found  mnt  proc  sbin  srv  tmp  var
boot  etc  lib  media  opt  root  selinux  sys  usr
[root@localhost ~]# cd home
[root@localhost home]# ls -all
total 17968
drwxr-xr-x.  4 root root    4096 May 19 10:51 .
dr-xr-xr-x. 21 root root    4096 May 19 10:40 ..
drwxr-xr-x.  2 root root    4096 May 19 10:51 Desktop
drwxr-xr-x. 34 root root    4096 May 19 10:49 samba-4.8.2
-rw-r--r--.  1 root root 17675145 May 16 06:15 samba-4.8.2.tar.gz
-rw-r--r--.  1 root root  704512 May 19 06:29 samba-latest.tar.gz
[root@localhost home]# cd Desktop/
[root@localhost Desktop]# cd
[root@localhost ~]# _
```

3. Buatlah file tar pada direktori Desktop

```
tar -cvf desktop.tar Desktop
```

```
ls -al
```

```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost Desktop]# tar -cvf desktop.tar Desktop
tar: Desktop: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
[root@localhost Desktop]# ls -all
total 20
drwxr-xr-x. 2 root root 4096 May 19 10:55 .
drwxr-xr-x. 4 root root 4096 May 19 10:51 ..
-rw-r--r--. 1 root root 0 May 19 10:54 contoh_lagi.txt
-rw-r--r--. 1 root root 0 May 19 10:54 contoh.txt
-rw-r--r--. 1 root root 10240 May 19 10:55 desktop.tar
[root@localhost Desktop]# _
```

4. Rename direktori Desktop menjadi Desktop.old. Lihatlah file desktop.tar pada direktori Desktop.old

```
mv Desktop Desktop.old
```

```
ls -l
```

```
cd Desktop.old
```

```
ls -l
```

```
cd ..
```

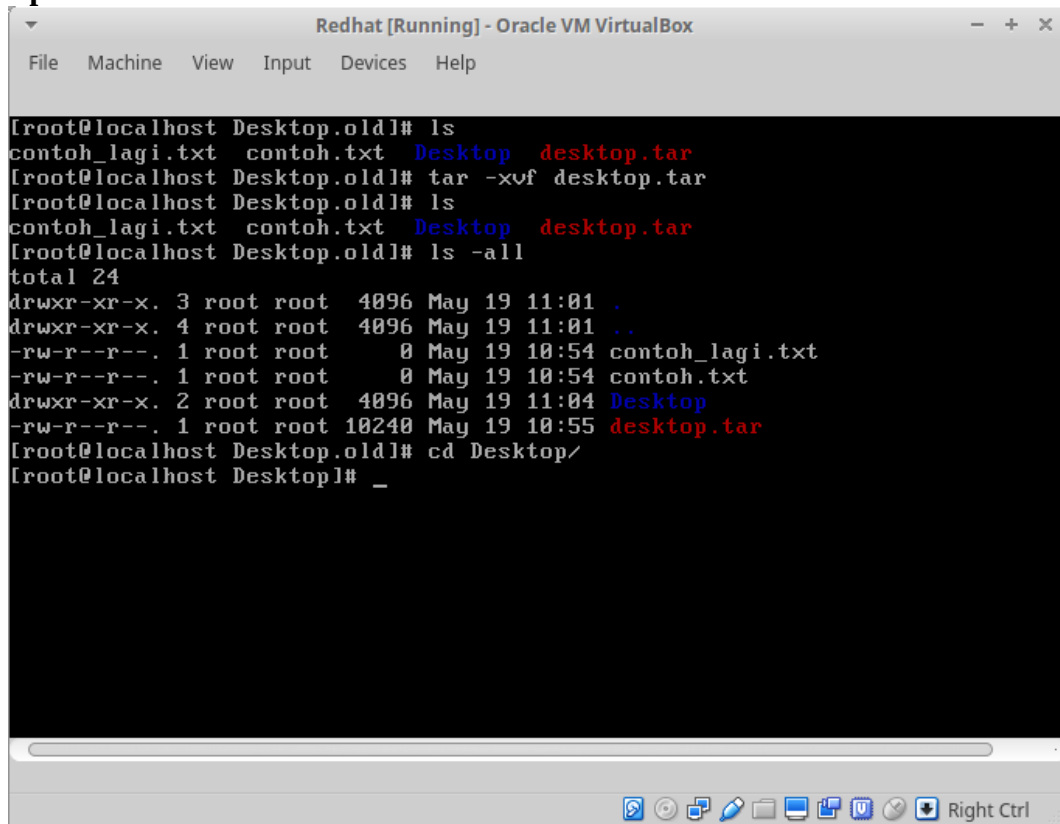
```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# mv Desktop Desktop.old/
[root@localhost home]# ls -l
total 17960
drwxr-xr-x. 3 root root 4096 May 19 11:01 Desktop.old
drwxr-xr-x. 34 root root 4096 May 19 10:49 samba-4.8.2
-rw-r--r--. 1 root root 17675145 May 16 06:15 samba-4.8.2.tar.gz
-rw-r--r--. 1 root root 704512 May 19 06:29 samba-latest.tar.gz
[root@localhost home]# cd Desktop.old/
[root@localhost Desktop.old]# ls -l
total 16
-rw-r--r--. 1 root root 0 May 19 10:54 contoh_lagi.txt
-rw-r--r--. 1 root root 0 May 19 10:54 contoh.txt
drwxr-xr-x. 2 root root 4096 May 19 10:55 Desktop
-rw-r--r--. 1 root root 10240 May 19 10:55 desktop.tar
[root@localhost Desktop.old]# cd ..
[root@localhost home]# _
```

5. Ekstraksi isi dari file tar. Lihatlah isi direktori dan seharusnya akan terlihat direktori Desktop yang original

tar -xvf desktop.tar

ls -al

cd Desktop

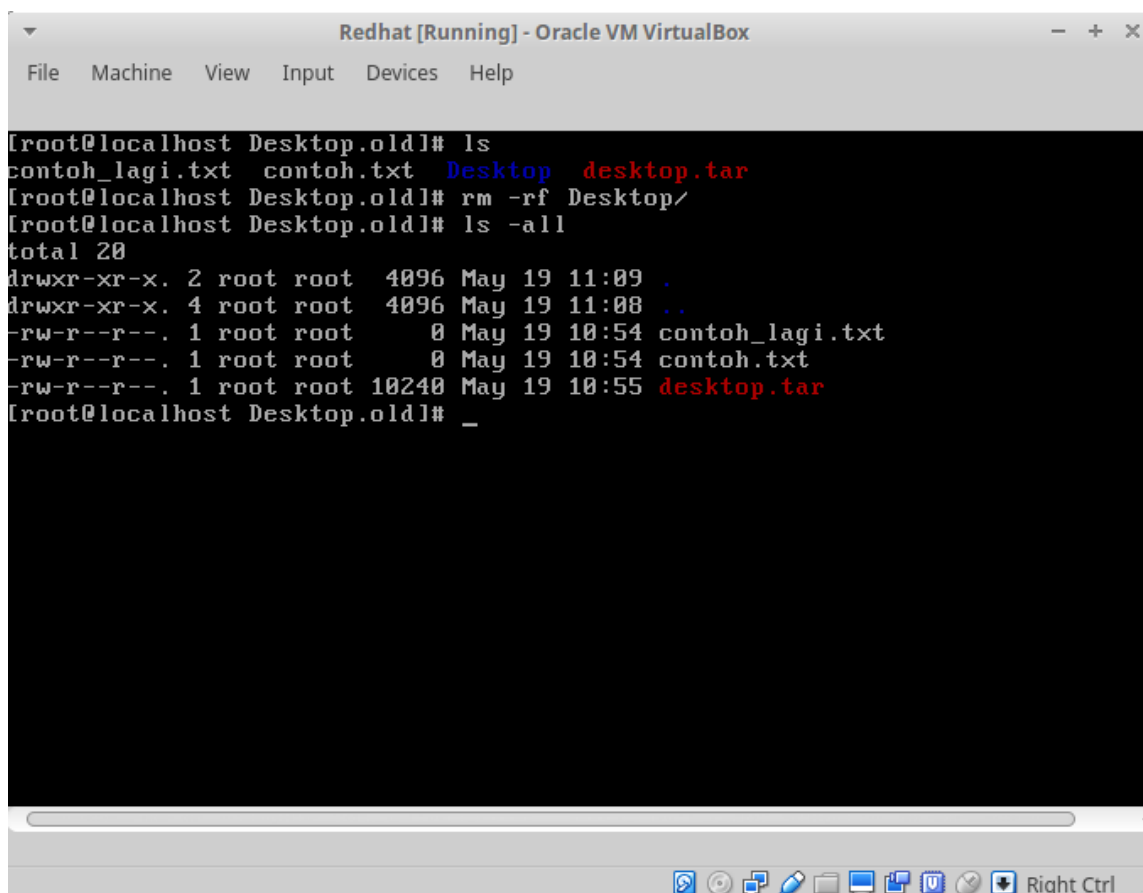


```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

[root@localhost Desktop.old1]# ls
contoh_lagi.txt  contoh.txt  Desktop  desktop.tar
[root@localhost Desktop.old1]# tar -xvf desktop.tar
[root@localhost Desktop.old1]# ls
contoh_lagi.txt  contoh.txt  Desktop  desktop.tar
[root@localhost Desktop.old1]# ls -all
total 24
drwxr-xr-x. 3 root root 4096 May 19 11:01 .
drwxr-xr-x. 4 root root 4096 May 19 11:01 ..
-rw-r--r--. 1 root root  0 May 19 10:54 contoh_lagi.txt
-rw-r--r--. 1 root root  0 May 19 10:54 contoh.txt
drwxr-xr-x. 2 root root 4096 May 19 11:04 Desktop
-rw-r--r--. 1 root root 10240 May 19 10:55 desktop.tar
[root@localhost Desktop.old1]# cd Desktop/
[root@localhost Desktop1]# _
```

6. Hapus direktori Desktop

rm -rf Desktop



```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

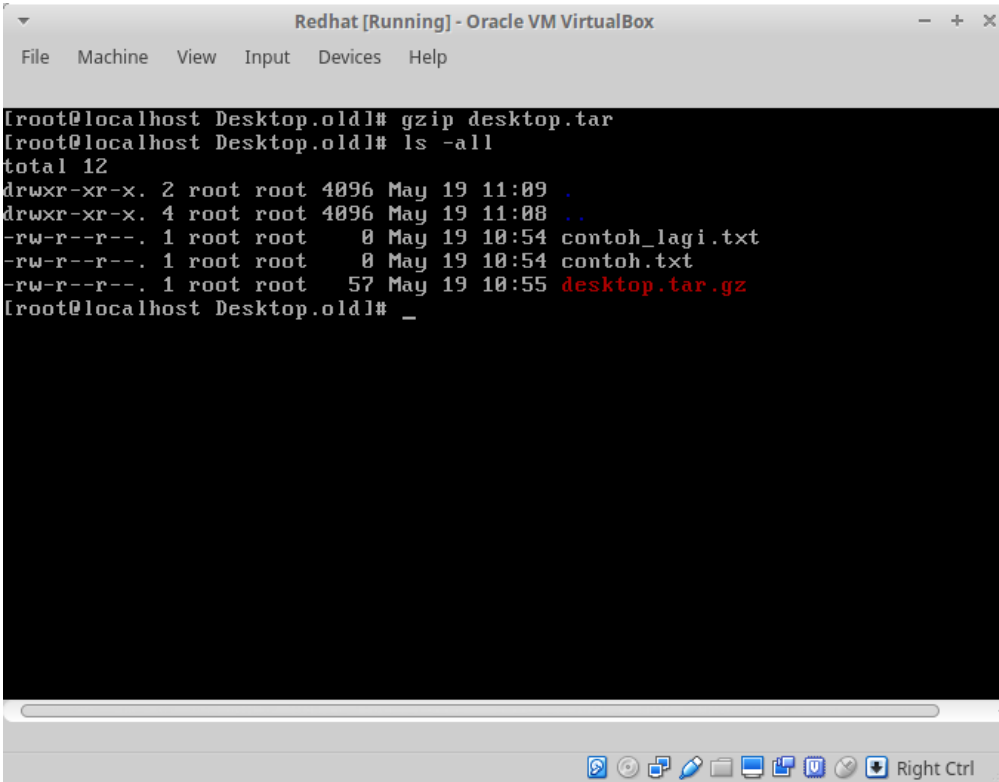
[root@localhost Desktop.old1]# ls
contoh_lagi.txt  contoh.txt  Desktop  desktop.tar
[root@localhost Desktop.old1]# rm -rf Desktop/
[root@localhost Desktop.old1]# ls -all
total 20
drwxr-xr-x. 2 root root 4096 May 19 11:09 .
drwxr-xr-x. 4 root root 4096 May 19 11:08 ..
-rw-r--r--. 1 root root  0 May 19 10:54 contoh_lagi.txt
-rw-r--r--. 1 root root  0 May 19 10:54 contoh.txt
-rw-r--r--. 1 root root 10240 May 19 10:55 desktop.tar
[root@localhost Desktop.old1]# _
```

PERCOBAAN 4 MENGGUNAKAN GZIP

1. Buatlah file gzip dari desktop.tar, pastikan terbentuk file desktop.tar.gz

\$ gzip desktop.tar

\$ ls -al



```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

[root@localhost Desktop.old]# gzip desktop.tar
[root@localhost Desktop.old]# ls -all
total 12
drwxr-xr-x. 2 root root 4096 May 19 11:08 .
drwxr-xr-x. 4 root root 4096 May 19 11:08 ..
-rw-r--r--. 1 root root    0 May 19 10:54 contoh_lagi.txt
-rw-r--r--. 1 root root    0 May 19 10:54 contoh.txt
-rw-r--r--. 1 root root   57 May 19 10:55 desktop.tar.gz
[root@localhost Desktop.old]# _
```

2. Dekompresi file gzip desktop.tar.gz dan cobalah untuk ekstraksi isi file tar

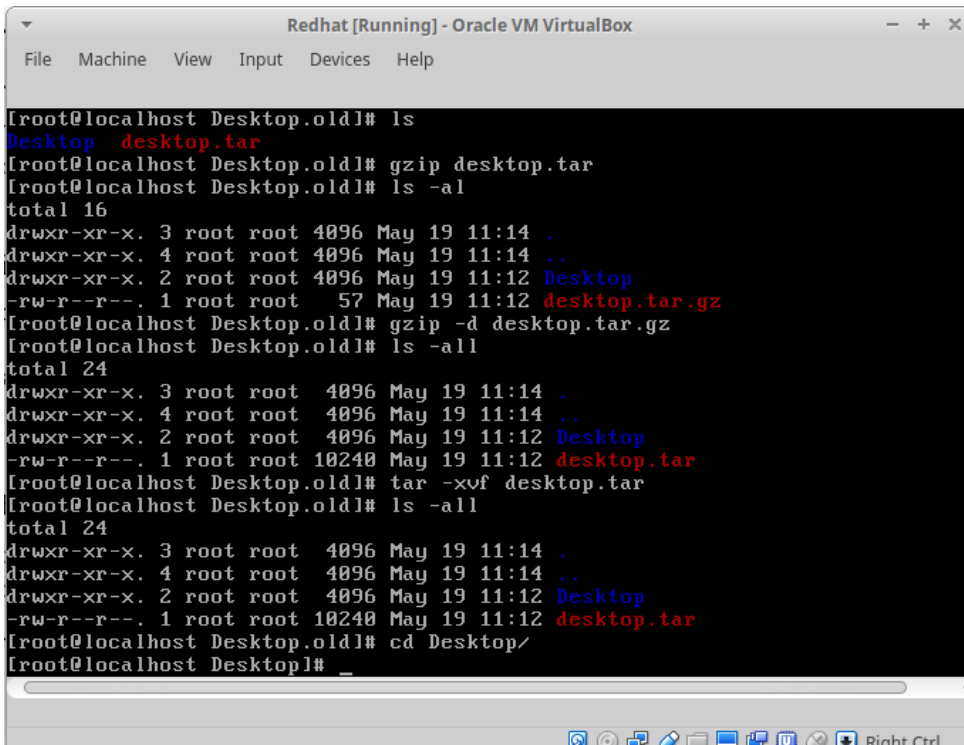
gzip -d desktop.tar.gz

ls -al

tar -xvf desktop.tar

ls -al

cd Desktop



```
Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

[root@localhost Desktop.old]# ls
Desktop desktop.tar
[root@localhost Desktop.old]# gzip desktop.tar
[root@localhost Desktop.old]# ls -al
total 16
drwxr-xr-x. 3 root root 4096 May 19 11:14 .
drwxr-xr-x. 4 root root 4096 May 19 11:14 ..
drwxr-xr-x. 2 root root 4096 May 19 11:12 Desktop
-rw-r--r--. 1 root root   57 May 19 11:12 desktop.tar.gz
[root@localhost Desktop.old]# gzip -d desktop.tar.gz
[root@localhost Desktop.old]# ls -all
total 24
drwxr-xr-x. 3 root root  4096 May 19 11:14 .
drwxr-xr-x. 4 root root  4096 May 19 11:14 ..
drwxr-xr-x. 2 root root  4096 May 19 11:12 Desktop
-rw-r--r--. 1 root root 10240 May 19 11:12 desktop.tar
[root@localhost Desktop.old]# tar -xvf desktop.tar
[root@localhost Desktop.old]# ls -all
total 24
drwxr-xr-x. 3 root root  4096 May 19 11:14 .
drwxr-xr-x. 4 root root  4096 May 19 11:14 ..
drwxr-xr-x. 2 root root  4096 May 19 11:12 Desktop
-rw-r--r--. 1 root root 10240 May 19 11:12 desktop.tar
[root@localhost Desktop.old]# cd Desktop/
[root@localhost Desktop]# _
```


3. Hapus file tar dan direktori Desktop.old

\$ rm desktop.tar

\$ rm -rf Desktop.old

```

Redhat [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

[root@localhost Desktop.old]# rm desktop.tar
rm: remove regular file 'desktop.tar'? yes
[root@localhost Desktop.old]# ls
Desktop
[root@localhost Desktop.old]# rm Desktop/
rm: cannot remove 'Desktop/': Is a directory
[root@localhost Desktop.old]# rmdir Desktop/
rmdir: failed to remove 'Desktop/': Directory not empty
[root@localhost Desktop.old]# cd Desktop/desktop.tar
-bash: cd: Desktop/desktop.tar: Not a directory
[root@localhost Desktop.old]# cd Desktop
[root@localhost Desktop]# ls
desktop.tar
[root@localhost Desktop]# rm desktop.tar
rm: remove regular file 'desktop.tar'? yes
[root@localhost Desktop]# cd ..
[root@localhost Desktop.old]# ls
Desktop
[root@localhost Desktop.old]# rmdir Desktop/
rmdir: failed to remove 'Desktop/': Directory not empty
[root@localhost Desktop.old]# ls
Desktop
[root@localhost Desktop.old]# cd ..
[root@localhost home]# rm -rf Desktop.old/
rm: cannot remove 'Desktop.old/': Is a directory
[root@localhost home]# ls
samba-4.8.2  samba-4.8.2.tar.gz  samba-latest.tar.gz
[root@localhost home]# _

```