Laporan Praktikum 3

Administrasi Sistem

Backup

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Backup

Backup merupakan proses **membuat data cadangan** yang dilakukan dengan **cara menyalin data asli** sehingga data cadangan tersebut suatu saat dapat digunakan kembali apabila data asli mengalami kerusakan atau kehilangan.

Berikut merupakan **implementasi dari backup** dan sistem operasi yang digunakan adalah **Ubuntu 16.04 LTS :**

Lab 3.1 Melakukan full backup

1. Buka program terminal

2. Perhatikan Anda harus memastikan direktori /backup sudah ada, atau jika belum ada maka buat direktori /backup. Anda juga harus memiliki ijin akses penuh terhadap direktori /var/log untuk dapat menyalin seluruh isi direktori tersebut

3. Gunakan perintah menyalin file yaitu 'cp', salin lah direktori /var/log kedalam direktori /backup

4. Lakukan verfikasi atau pemeriksaan bahwa saat ini setelah melakukan penyalinan, maka direktori /var/log dan /backup/log sama .! Ikuti langkah langkah berikut dan perhatikan apakah yang diperbandingkan dari masing masing perintah berikut ini:

- sudo du -sh /var/log /backup/log untuk membandingkan **ukuran file di direktori**


```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo du -sh /var/log /backup/log
52M     /var/log
52M     /backup/log
mazharrasyad@mazharrasyad:~$
```

- sudo find /var/log | wc -l && sudo find /backup/log | wc -l untuk membandingkan **jumlah baris di direktori**


```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo find /var/log | wc -l  && sudo find /backup/lo
g | wc -l
577
577
mazharrasyad@mazharrasyad:~$
```

Lab 3.2 Melakukan full backup dengan perintah tar

1. Buka program terminal

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$
```

2. Gunakan peintah tar untuk mengarsip file/direktori, untuk melakukan full backup direktori /var/log dimana file arsip sebagai hasil backup diletakkan kedalam kedalam direktori /backup . Ikuti langkah langkah berikut ini :

```
mazharrasyad@mazharrasyad: /backup
mazharrasyad@mazharrasyad:~$ cd /backup/
mazharrasyad@mazharrasyad:/backup$
```

```
mazharrasyad@mazharrasyad: /backup
mazharrasyad@mazharrasyad:/backup$ sudo tar -cvf log.tar -C /var log
log/
log/apport.log.1
log/dpkg.log.11.gz
log/wtmp.1
log/fsck/
log/lightdm/x-1.log.2.gz
log/lightdm/x-1.log
log/lightdm/lightdm.log.6.gz
log/lightdm/x-1.log.5.gz
log/alternatives.log.5.gz
mazharrasyad@mazharrasyad:/backup$
```

3. Perhatikan apakah hasil arsip dari direktori /var/log terdapat di dalam direktori /backup dan bagaimana ukurannya ?

```
mazharrasyad@mazharrasyad: /backup
mazharrasyad@mazharrasyad:/backup$ ls
log    log.tar
mazharrasyad@mazharrasyad:/backup$ sudo du -sh /var/log log.tar
52M     /var/log
51M     log.tar
mazharrasyad@mazharrasyad:/backup$
```

Lab 3.3 Menambah file kedalam file arsip

1. Periksa hasil arsip sebelumnya dengan perintah berikut:

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo tar -tvf /backup/log.tar
drwxrwxr-x root/syslog        0 2018-11-20 19:49 log/
-rw-r----- root/adm        7775 2018-11-20 19:49 log/apport.log.1
-rw-r--r-- root/root       7893 2017-11-30 11:05 log/dpkg.log.11.gz
-rw-rw-r-- root/utmp     341376 2018-11-01 07:07 log/wtmp.1
drwxr-xr-x root/root          0 2017-02-16 03:19 log/fsck/
-rw------- root/root          0 2018-11-03 07:35 log/lightdm/x-1.log
-rw------- root/root       2074 2018-11-14 04:04 log/lightdm/lightdm.log.6.g
z
-rw------- root/root        784 2018-09-30 21:17 log/lightdm/x-1.log.5.gz
-rw-r--r-- root/root        461 2018-05-28 07:12 log/alternatives.log.5.gz
mazharrasyad@mazharrasyad:~$
```

2. Buatlah file coba.txt dan letakkan kedalam direktori /var/log

```
root@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo su -
root@mazharrasyad:~# echo "Haloooooo STT NF" > /var/log/coba.txt
root@mazharrasyad:~# cat /var/log/coba.txt
Haloooooo STT NF
root@mazharrasyad:~#
```

3. Tambahkan file tersebut kedalam file arsip log.tar, dengan perintah berikut :

```
root@mazharrasyad: /backup
root@mazharrasyad:~# cd /backup/
root@mazharrasyad:/backup# tar -rvf log.tar /var/log/coba.txt
tar: Removing leading `/' from member names
/var/log/coba.txt
root@mazharrasyad:/backup#
```

4. Lakukan pemeriksaan apakah file tersebut berhasil ditambahkan kedalam file arsip log.tar dengan perintah berikut:

```
root@mazharrasyad: /backup
root@mazharrasyad:/backup# tar -tvf /backup/log.tar
drwxrwxr-x root/syslog        0 2018-11-20 19:49 log/
-rw-r----- root/adm        7775 2018-11-20 19:49 log/apport.log.1
-rw-r--r-- root/root       7893 2017-11-30 11:05 log/dpkg.log.11.gz
-rw-rw-r-- root/utmp     341376 2018-11-01 07:07 log/wtmp.1
drwxr-xr-x root/root          0 2017-02-16 03:19 log/fsck/
-rw-r----- root/adm          31 2017-02-16 03:19 log/fsck/checkfs
-rw------- root/root          0 2018-11-03 07:35 log/lightdm/x-1.log
-rw------- root/root       2074 2018-11-14 04:04 log/lightdm/lightdm.log.6.g
z
-rw------- root/root        784 2018-09-30 21:17 log/lightdm/x-1.log.5.gz
-rw-r--r-- root/root        461 2018-05-28 07:12 log/alternatives.log.5.gz
-rw-r--r-- root/root         17 2018-11-20 21:59 var/log/coba.txt
root@mazharrasyad:/backup#
```

Lab 3.4 Melakukan restore/extract file arsip

1. Buat direktori /restore1


```
root@mazharrasyad:~# mkdir /restore1
root@mazharrasyad:~#
```

2. Kemudian ekstrak file /backup/log.tar kedalam direktori /restore1 dengan perintah berikut :


```
root@mazharrasyad:~# tar -xvf /backup/log.tar -C /restore1
log/
log/apport.log.1
log/dpkg.log.11.gz
log/wtmp.1
log/fsck/
log/lightdm/x-1.log
log/lightdm/lightdm.log.6.gz
log/lightdm/x-1.log.5.gz
log/alternatives.log.5.gz
var/log/coba.txt
root@mazharrasyad:~# ~
```

3. Perhatikan apakah didalam direktori /restore1 terdapat direktori 'log' ?


```
root@mazharrasyad:~# ls /restore1/
log  var
root@mazharrasyad:~#
```

Lab 3.5 Melakukan full backup terkompresi

1. Buka program terminal

```
⊗ ⊖ ▢  mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$
```

2. Gunakan perintah mengarsip dan mengkompres yaitu 'tar', untuk melakukan full backup direktori /var/log dimana file arsip dan kompres sebagai hasil backup diletakkan kedalam kedalam direktori /backup . Ikuti langkah langkah berikut ini:

```
⊗ ⊖ ▢  root@mazharrasyad: /backup
mazharrasyad@mazharrasyad:~$ sudo su -
[sudo] password for mazharrasyad:
root@mazharrasyad:~# cd /backup
root@mazharrasyad:/backup#
```

```
⊗ ⊖ ▢  root@mazharrasyad: /backup
root@mazharrasyad:/backup# tar -czvf log.tar.gz -C /var log
log/
log/apport.log.1
log/dpkg.log.11.gz
log/wtmp.1
log/fsck/
log/fsck/checkfs
log/lightdm/x-1.log.2.gz
log/lightdm/x-1.log
log/lightdm/lightdm.log.6.gz
log/lightdm/x-1.log.5.gz
log/alternatives.log.5.gz
root@mazharrasyad:/backup#
```

```
⊗ ⊖ ▢  root@mazharrasyad: /backup
root@mazharrasyad:/backup# tar -cjvf log.tar.bz -C /var log
log/
log/apport.log.1
log/dpkg.log.11.gz
log/wtmp.1
log/fsck/
log/fsck/checkfs
log/lightdm/x-4.log
log/lightdm/x-1.log.2.gz
log/lightdm/x-1.log
log/lightdm/lightdm.log.6.gz
log/lightdm/x-1.log.5.gz
log/alternatives.log.5.gz
root@mazharrasyad:/backup#
```

3. Perhatikan apakah hasil arsip dan kompresi dari direktori /var/log terdapat di dalam direktori /backup, ada berapa file dan masing masing bagaimana ukurannya ?

```
root@mazharrasyad: /backup
root@mazharrasyad:/backup# ls
log   log.tar   log.tar.bz   log.tar.gz
root@mazharrasyad:/backup#
```

- Ada 3 file

```
root@mazharrasyad: /backup
root@mazharrasyad:/backup# ls
log   log.tar   log.tar.bz   log.tar.gz
root@mazharrasyad:/backup#
```

- Masing-masing ukurannya

```
root@mazharrasyad: /backup
root@mazharrasyad:/backup# du -sh /backup/log.tar*
51M     /backup/log.tar
11M     /backup/log.tar.bz
11M     /backup/log.tar.gz
root@mazharrasyad:/backup#
```

Lab 3.6 Melihat daftar file yang terdapat dalam file hasil full backup terkompresi

1. Buka program terminal

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$
```

2. Gunakan perintah berikut ini untuk melihat isi atau daftar file dalam file hasil arsip terkompresi sebelumnya

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo tar -tzvf /backup/log.tar.gz
[sudo] password for mazharrasyad:
drwxrwxr-x root/syslog         0 2018-11-20 21:58 log/
-rw-r----- root/adm         7775 2018-11-20 19:49 log/apport.log.1
-rw-r--r-- root/root        7893 2017-11-30 11:05 log/dpkg.log.11.gz
-rw-rw-r-- root/utmp      341376 2018-11-01 07:07 log/wtmp.1
drwxr-xr-x root/root           0 2017-02-16 03:19 log/fsck/
-rw-r----- root/adm           31 2017-02-16 03:19 log/fsck/checkfs
-rw------- root/root           0 2017-12-12 11:05 log/lightdm/x-4.log
-rw------- root/root         666 2018-11-01 17:02 log/lightdm/x-1.log.2.gz
-rw------- root/root           0 2018-11-03 07:35 log/lightdm/x-1.log
-rw------- root/root        2074 2018-11-14 04:04 log/lightdm/lightdm.log.6.g
z
-rw------- root/root         784 2018-09-30 21:17 log/lightdm/x-1.log.5.gz
-rw-r--r-- root/root         461 2018-05-28 07:12 log/alternatives.log.5.gz
mazharrasyad@mazharrasyad:~$
```

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo tar -tjvf /backup/log.tar.bz
[sudo] password for mazharrasyad:
drwxrwxr-x root/syslog         0 2018-11-20 21:58 log/
-rw-r----- root/adm         7775 2018-11-20 19:49 log/apport.log.1
-rw-r--r-- root/root        7893 2017-11-30 11:05 log/dpkg.log.11.gz
-rw-rw-r-- root/utmp      341376 2018-11-01 07:07 log/wtmp.1
drwxr-xr-x root/root           0 2017-02-16 03:19 log/fsck/
-rw-r----- root/adm           31 2017-02-16 03:19 log/fsck/checkfs
-rw------- root/root           0 2017-12-12 11:05 log/lightdm/x-4.log
-rw------- root/root         666 2018-11-01 17:02 log/lightdm/x-1.log.2.gz
-rw------- root/root           0 2018-11-03 07:35 log/lightdm/x-1.log
-rw------- root/root        2074 2018-11-14 04:04 log/lightdm/lightdm.log.6.g
z
-rw------- root/root         784 2018-09-30 21:17 log/lightdm/x-1.log.5.gz
-rw-r--r-- root/root         461 2018-05-28 07:12 log/alternatives.log.5.gz
mazharrasyad@mazharrasyad:~$
```

3. Perhatikan dengan baik output perintah diatas

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo tar -tzvf /backup/log.tar.gz | wc -l
578
mazharrasyad@mazharrasyad:~$ sudo tar -tjvf /backup/log.tar.bz | wc -l
578
mazharrasyad@mazharrasyad:~$
```

- Hasil output perintah diatas adalah sama

Lab 3.7 Melakukan restore/extract hasil full backup terkompresi

1. Buat direktori /restore2

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo mkdir /restore2
mazharrasyad@mazharrasyad:~$
```

2. Kemudian ekstrak file /backup/log.tar.gz kedalam direktori /restore2 dengan perintah berikut:

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo tar -xzvf /backup/log.tar.gz -C /restore2
log/
log/apport.log.1
log/dpkg.log.11.gz
log/wtmp.1
log/fsck/
```
```
log/lightdm/x-1.log.2.gz
log/lightdm/x-1.log
log/lightdm/lightdm.log.6.gz
log/lightdm/x-1.log.5.gz
log/alternatives.log.5.gz
mazharrasyad@mazharrasyad:~$
```

3. Perhatikan apakah didalam direktori /restore terdapat direktori 'log' ?

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ ls /restore2/
log
mazharrasyad@mazharrasyad:~$
```

4. Hapus direktori /restore2/log

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo rm -rf /restore2/log
mazharrasyad@mazharrasyad:~$ ls /restore2/
mazharrasyad@mazharrasyad:~$
```

5. Kemudian ekstrak file /backup/log.tar.bz kedalam direktori /restore2

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo tar -xjvf /backup/log.tar.bz -C /restore2
log/
log/apport.log.1
log/dpkg.log.11.gz
log/wtmp.1
log/fsck/
```

```
log/lightdm/x-1.log.2.gz
log/lightdm/x-1.log
log/lightdm/lightdm.log.6.gz
log/lightdm/x-1.log.5.gz
log/alternatives.log.5.gz
mazharrasyad@mazharrasyad:~$
```

6. Perhatikan apakah didalam direktori /restore2 terdapat direktori 'log' ?

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ ls /restore2/
log
mazharrasyad@mazharrasyad:~$
```

Lab 3.8 Melakukan full backup dengan rsync

1. Buatlah direktori /backup2, dengan perintah berikut ini:

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo mkdir /backup2
mazharrasyad@mazharrasyad:~$
```

2. Lakukan full backup direktori /var/log dengan perintah berikut ini:

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo rsync -av --log-file=/tmp/rsync.log /var/log /
backup2/
sending incremental file list
log/
log/Xorg.0.log
log/Xorg.0.log.old
log/Xorg.1.log
log/Xorg.1.log.old
log/Xorg.2.log
log/Xorg.2.log.old

log/unattended-upgrades/unattended-upgrades.log.3.gz
log/unattended-upgrades/unattended-upgrades.log.4.gz
log/unattended-upgrades/unattended-upgrades.log.5.gz
log/unattended-upgrades/unattended-upgrades.log.6.gz
log/upstart/
log/upstart/procps-instance-static-network-up.log.1.gz

sent 52,339,795 bytes  received 8,964 bytes  34,899,172.67 bytes/sec
total size is 52,293,521  speedup is 1.00
mazharrasyad@mazharrasyad:~$
```

3. Periksalah apakah pada direktori /backup2 terdapat direktori log

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ ls /backup2/
log
mazharrasyad@mazharrasyad:~$
```

4. Lihatlah isi direktori log tersebut apakah sama dengan isi direktori log pada direktori /var

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo du -sh /backup2/log/ /var/log/
52M     /backup2/log/
52M     /var/log/
mazharrasyad@mazharrasyad:~$
```

5. Bacalah atau amati file log /tmp/rsync.log

```
mazharrasyad@mazharrasyad: ~

mazharrasyad@mazharrasyad:~$ cat /tmp/rsync.log
2018/11/20 23:43:28 [16422] building file list
2018/11/20 23:43:28 [16422] rsync: opendir "/var/log/speech-dispatcher" failed:
Permission denied (13)
2018/11/20 23:43:28 [16422] rsync: recv_generator: mkdir "/backup2/log" failed:
Permission denied (13)
2018/11/20 23:43:28 [16422] *** Skipping any contents from this failed directory
 ***
2018/11/20 23:43:28 [16422] cd+++++++++ log/
2018/11/20 23:43:29 [16422] sent 15,739 bytes  received 313 bytes   32,104.00 byt
es/sec

2018/11/20 23:43:35 [16426] >f+++++++++ log/unattended-upgrades/unattended-upgra
des.log.5.gz
2018/11/20 23:43:35 [16426] >f+++++++++ log/unattended-upgrades/unattended-upgra
des.log.6.gz
2018/11/20 23:43:35 [16426] cd+++++++++ log/upstart/
2018/11/20 23:43:35 [16426] >f+++++++++ log/upstart/procps-instance-static-netwo
rk-up.log.1.gz
2018/11/20 23:43:35 [16426] sent 52,339,795 bytes  received 8,964 bytes   34,899,
172.67 bytes/sec
2018/11/20 23:43:35 [16426] total size is 52,293,521  speedup is 1.00
mazharrasyad@mazharrasyad:~$
```

Lab 3.9 Melakukan incremental/differential backup dengan rsync

1. Buatlah direktori /var/log/coba

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo mkdir /var/log/coba
[sudo] password for mazharrasyad:
mazharrasyad@mazharrasyad:~$
```

2. Buatlah file sttnf.log didalam direktori /var/log/coba, dengan perintah berikut ini:

```
root@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo su -
root@mazharrasyad:~# echo "Halooo STT NF" > /var/log/coba/sttnf.log
root@mazharrasyad:~#
```

3. Selanjutnya lakukan incremental/differential backup direktori /var/log dengan perintah berikut ini:

```
root@mazharrasyad: ~
root@mazharrasyad:~# rsync -av --log-file=/tmp/rsync.log /var/log /backup2/
sending incremental file list
log/
log/auth.log
log/syslog
log/coba/
log/coba/sttnf.log

sent 288,548 bytes  received 240 bytes  577,576.00 bytes/sec
total size is 52,306,959  speedup is 181.13
root@mazharrasyad:~#
```

4. Periksalah pada direktori /backup2/log apakah terdapat direktori "/backup2/log/coba" dan file "/backup2/log/coba/sttnf.log"

```
root@mazharrasyad: ~
root@mazharrasyad:~# ls /backup2/log/coba
sttnf.log
root@mazharrasyad:~#
```

5. Kemudian hapus file /var/log/coba/sttnf.log

```
root@mazharrasyad: ~
root@mazharrasyad:~# rm -f /var/log/coba/sttnf.log
root@mazharrasyad:~#
```

6. Kemudian cobalah jalankan perintah berikut:

```
root@mazharrasyad:~# rsync -av --log-file=/tmp/rsync.log /var/log /backup2/
sending incremental file list
log/auth.log
log/syslog
log/coba/

sent 298,472 bytes  received 218 bytes  597,380.00 bytes/sec
total size is 52,316,947  speedup is 175.15
root@mazharrasyad:~#
```

7. Periksalah pada direktori /backup2/log apakah file "/backup2/log/coba/sttnf.log" juga terhapus atau tidak ada ?

```
root@mazharrasyad:~# ls /backup2/log/coba
sttnf.log
root@mazharrasyad:~#
```

8. Jika file /backup2/log/coba/sttnf.log masih ada coba jalankan perintah berikut ini:

```
root@mazharrasyad:~# rsync -av --delete --log-file=/tmp/rsync.log /var/log /back
up2/
sending incremental file list
log/syslog
deleting log/coba/sttnf.log

sent 156,043 bytes  received 212 bytes  312,510.00 bytes/sec
total size is 52,317,869  speedup is 334.82
root@mazharrasyad:~#
```

9. Periksalah kembali apakah file "/backup2/log/coba/sttnf.log" sudah terhapus atau tidak ada ?

```
root@mazharrasyad:~# ls /backup2/log/coba
root@mazharrasyad:~#
```

Lab 3.10 Melakukan backup ke remote penyimpanan dengan rsync

1. Buatlah direktori /backup3 pada komputer remote (misal: komputer teman Anda) yang telah menjalankan service ssh dan mengijinkan komputer Anda untuk mengaksesnya via ssh.

- Membuat direktori /backup3 di komputer lain

```
pc18@pc18-desktop: ~

File  Edit  View  Search  Terminal  Help
pc18@pc18-desktop:~$ sudo mkdir /backup3
pc18@pc18-desktop:~$ 
```

- Status ssh dikomputer lain

```
pc18@pc18-desktop: ~

File  Edit  View  Search  Terminal  Help
pc18@pc18-desktop:~$ systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enab
   Active: active (running) since Sat 2018-12-01 16:27:07 WIB; 1 day 17h ago
 Main PID: 888 (sshd)
    Tasks: 1 (limit: 4558)
   CGroup: /system.slice/ssh.service
           └─888 /usr/sbin/sshd -D

Des 01 16:27:13 pc18-desktop systemd[1]: Reloading OpenBSD Secure Shell server.
Des 01 16:27:13 pc18-desktop sshd[888]: Received SIGHUP; restarting.
Des 01 16:27:13 pc18-desktop systemd[1]: Reloaded OpenBSD Secure Shell server.
Des 01 16:27:13 pc18-desktop sshd[888]: Server listening on 0.0.0.0 port 22.
Des 01 16:27:13 pc18-desktop sshd[888]: Server listening on :: port 22.
Des 01 16:27:13 pc18-desktop systemd[1]: Reloading OpenBSD Secure Shell server.
Des 01 16:27:13 pc18-desktop sshd[888]: Received SIGHUP; restarting.
Des 01 16:27:13 pc18-desktop systemd[1]: Reloaded OpenBSD Secure Shell server.
Des 01 16:27:13 pc18-desktop sshd[888]: Server listening on 0.0.0.0 port 22.
Des 01 16:27:13 pc18-desktop sshd[888]: Server listening on :: port 22.
lines 1-18/18 (END)
```

2. Kemudian lakukan full backup direktori /var/log kedirektori /backup3 yang ada pada komputer teman Anda (misal : ip komputer teman Anda adalah 192.168.1.10):

   Saat Anda ditanyakan password, masukkan password user root yang terdaftar di komputer teman Anda!

- Melihat alamat ip komputer lain

- Status ssh di komputer lokal

- Melakukan full backup direktori /var/log kedirektori /backup3

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo scp -r /var/log pc18@192.168.50.56:/backup3
```

- Masukkan password user komputer lain

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo scp -r /var/log pc18@192.168.50.56:/backup3
pc18@192.168.50.56's password:
```

- Proses backup

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo scp -r /var/log pc18@192.168.50.56:/backup3
pc18@192.168.50.56's password:
apport.log.1                          100% 7862      7.7KB/s   00:00
dpkg.log.11.gz                        100%   22KB  21.6KB/s   00:00
wtmp.1                                100%  376KB 376.1KB/s   00:00
checkfs                               100%   31     0.0KB/s   00:00
checkroot                             100%   31     0.0KB/s   00:00
xcoba.log                             100%  355     0.4KB/s   00:00
Xorg.3.log                            100%   30KB  29.5KB/s   00:00
dpkg.log.5.gz                         100%   10KB  10.4KB/s   00:00
postgresql-9.5-main.log.1             100%   28KB  28.4KB/s   00:00
postgresql-9.5-main.log.4.gz          100% 5878      5.7KB/s   00:00

x-3.log.1.gz                          100%  758     0.7KB/s   00:00
x-0.log.7.gz                          100%  709     0.7KB/s   00:00
x-4.log                               100%    0     0.0KB/s   00:00
x-1.log.2.gz                          100%  666     0.7KB/s   00:00
x-1.log                               100%    0     0.0KB/s   00:00
lightdm.log.6.gz                      100% 4313      4.2KB/s   00:00
x-1.log.5.gz                          100%  784     0.8KB/s   00:00
mylog                                 100% 4657KB    4.6MB/s   00:00
alternatives.log.5.gz                 100%  763     0.8KB/s   00:00
mazharrasyad@mazharrasyad:~$
```

3. Periksalah apakah pada direktori /backup3 pada komputer 192.168.1.10 terdapat direktori log, lihatlah isi direktori log tersebut apakah sama dengan isi direktori log pada direktori /var di komputer Anda

- Masuk ke komputer lain

- Memeriksa direktori /backup3 dan /log

- Membandingkan hasil /backup3/log dengan /var/log

4. Bacalah atau amati file log /tmp/rsync.log pada komputer Anda.

• Melihat file rsync.log

5. Kemudian cobalah membuat file atau direktori pada direktori /var/log komputer Anda dan lakukan lagi rsync untuk melakukan incremental atau differential backup, serta amati log /tmp/rsync.log pada komputer Anda.!

• Membackup lagi file yang ada di /var/log ke /backup3

• Periksa kembali file /tmp/rsync.log

- -*Selesai*- -

Referensi

- Modul praktikum Administrasi sistem dan jaringan – STT NF (Disusun oleh: Henry Saptono, S.Si, M.Kom)