Automate Backup in Linux Using RSYNC & Crontab | Backup Data On Remote Server Using RSYNC

rsync or remote synchronization is a software utility for Unix-Like systems that efficiently sync files and directories between two hosts or machines.
One of them being the source or the local-host from which the files will be synced, the other one being the remote-host, on which synchronization will take place.

There are basically two ways in which rsync can copy/sync data:
Copying/syncing to/from another host over any remote shell like ssh, rsh.
Copying/Syncing through rsync daemon using TCP.
==========

```
yum repolist

rpm -qa | grep rsync

yum install rsync -y

rpm -qi rsync

su - vikasnehra

mkdir backup

cd backup

touch test{1..10}.txt

mkdir -p /tmp/backup

rsync --help
```

```
rsync -v /home/vikasnehra/backup/* /tmp/backup/

exit

mkdir -p /backupsource/

cd /backupsource/ ; touch test{1..10}.txt

CLIENT: (192.168.1.108)

yum repolist

rpm -qa | grep rsync

yum install rsync -y

mkdir -p /backupdestination/
```

```
Go To SERVER:

rsync -av -e ssh /backupsource/ root@192.168.1.108:/backupdestination/

Go To CLIENT:

cd /backupdestination/

ls -lha

rm -rf *

ls -lha /root/.ssh/

mkdir -p /root/.ssh/

chmod 700 /root/.ssh/

touch /root/.ssh/authorized_keys
```

Go To SERVER:

ssh-keygen

scp -r /root/.ssh/id_rsa.pub root@192.168.1.108:/root/.ssh/authorized_keys

date

crontab -e

25 20 * * * bash /root/backup.sh

vim /root/backup.sh

!#/bin/bash

/usr/bin/rsync -av -e ssh /backupsource/ root@192.168.1.108:/backupdestination/

crontab -l

tail -f /var/log/cron

Go To CLIENT:

ll /backupdestination/

===

 # Client

```
[root@client ~]# uname -a
Linux client 4.18.0-80.el8.x86_64 #1 SMP Wed Mar 13 12:02:46 UTC 2019 x86_64 x86_6
4 x86_64 GNU/Linux
[root@client ~]#
```

#Server

```
[root@server ~]# #Welcome to Nehra Classes Youtube Channel#
[root@server ~]# #Automate Backup Using rsync & crontab in Linux#
[root@server ~]# uname -a
Linux server 3.10.0-1062.el7.x86_64 #1 SMP Thu Jul 18 20:25:13 UTC 2019 x86_64 x86
_64 x86_64 GNU/Linux
[root@server ~]#
```

```
[root@server ~]# yum repolist
Loaded plugins: langpacks, product-id, search-disabled-repos, subscription-manager
This system is not registered with an entitlement server. You can use subscription
-manager to register.
repo id      repo name                                                  status
*epel/x86_64 Extra Packages for Enterprise Linux 7 - x86_64             13,322
localrepo    localrepo                                                   5,229
remi-php72   Remi's PHP 7.2 RPM repository for Enterprise Linux 7 - x86_64     407
remi-safe    Safe Remi's RPM repository for Enterprise Linux 7 - x86_64   3,809
repolist: 22,767
[root@server ~]#
```

```
[root@server ~]# rpm -qa | grep rsync
rsync-3.1.2-6.el7_6.1.x86_64
```

 # 1. Rsync backup inside same machine (folder to Folder)

```
[root@server ~]# su - vikasnehra
Last login: Sun Jun 14 15:34:59 IST 2020 on pts/1
[vikasnehra@server ~]$ ll
total 4
drwxrwxr-x. 2 vikasnehra vikasnehra 192 Jun 14 15:35 backup
-rw-r--r--. 1 root       root       211 Jun  4 19:43 httpd.conf
drwx------. 8 vikasnehra vikasnehra 267 May 11 11:23 Maildir
[vikasnehra@server ~]$ cd backup/
[vikasnehra@server backup]$ ll
```

```
[vikasnehra@server backup]$ ll
total 4
-rw-rw-r--. 1 vikasnehra vikasnehra 136 Jun 14 15:35 cal.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test10.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test1.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test2.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test3.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test4.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test5.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test6.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test7.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test8.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:35 test9.txt
[vikasnehra@server backup]$
```

```
[vikasnehra@server backup]$ rm -rf *
[vikasnehra@server backup]$ ll
total 0
[vikasnehra@server backup]$
```



```
[vikasnehra@server backup]$ touch test{1..10}.txt
[vikasnehra@server backup]$ ll
total 0
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test10.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test1.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test2.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test3.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test4.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test5.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test6.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test7.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test8.txt
-rw-rw-r--. 1 vikasnehra vikasnehra 0 Jun 14 19:56 test9.txt
[vikasnehra@server backup]$ cal > cal.txt
[vikasnehra@server backup]$ ll
```

```
[vikasnehra@server backup]$ cd /tmp
[vikasnehra@server tmp]$ mkdir -p /tmp/backup
[vikasnehra@server tmp]$ cd backup/
[vikasnehra@server backup]$ ll
total 4
-rw-rw-r--. 1 vikasnehra vikasnehra 136 Jun 14 15:10 cal.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test10.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test1.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test2.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test3.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test4.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test5.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test6.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test7.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test8.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test9.txt
[vikasnehra@server backup]$ rm -rf *
[vikasnehra@server backup]$
[vikasnehra@server backup]$ ll
total 4
-rw-rw-r--. 1 vikasnehra vikasnehra 136 Jun 14 19:57 cal.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test10.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test1.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test2.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test3.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test4.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test5.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test6.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test7.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test8.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:56 test9.txt
[vikasnehra@server backup]$
```

 # Create a/ tmp Dir

```
[vikasnehra@server backup]$ cd /tmp
[vikasnehra@server tmp]$ mkdir -p /tmp/backup
[vikasnehra@server tmp]$ cd backup/
[vikasnehra@server backup]$ ll
total 4
-rw-rw-r--. 1 vikasnehra vikasnehra 136 Jun 14 15:10 cal.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test10.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test1.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test2.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test3.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test4.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test5.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test6.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test7.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test8.txt
-rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 15:10 test9.txt
[vikasnehra@server backup]$ rm -rf *
[vikasnehra@server backup]$
```

```
[vikasnehra@server backup]$ rm -rf *
[vikasnehra@server backup]$ ll
total 0
[vikasnehra@server backup]$ clear
```

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```
vikasnehra@server backup]$ rsync --he
```

```
  or   rsync [OPTION]... [USER@]HOST::SRC [DEST]
  or   rsync [OPTION]... rsync://[USER@]HOST[:PORT]/SRC [DEST]
The ':' usages connect via remote shell, while '::' & 'rsync://' usages connect
to an rsync daemon, and require SRC or DEST to start with a module name.

Options
 -v, --verbose               increase verbosity
     --info=FLAGS            fine-grained informational verbosity
     --debug=FLAGS           fine-grained debug verbosity
     --msgs2stderr           special output handling for debugging
 -q, --quiet                 suppress non-error messages
     --no-motd               suppress daemon-mode MOTD (see manpage caveat)
 -c, --checksum              skip based on checksum, not mod-time & size
 -a, --archive               archive mode; equals -rlptgoD (no -H,-A,-X)
     --no-OPTION             turn off an implied OPTION (e.g. --no-D)
 -r, --recursive             recurse into directories
 -R, --relative              use relative path names
     --no-implied-dirs       don't send implied dirs with --relative
 -b, --backup                make backups (see --suffix & --backup-dir)
```

 # Create a backup using Rsync

```
[vikasnehra@server backup]$ cd
[vikasnehra@server ~]$ rsync -v /home/vikasnehra/backup/* /tmp/backup/
cal.txt
test1.txt
test10.txt
test2.txt
test3.txt
test4.txt
test5.txt
test6.txt
test7.txt
test8.txt
test9.txt

sent 788 bytes  received 225 bytes  2,026.00 bytes/sec
total size is 136  speedup is 0.13
[vikasnehra@server ~]$
```

```
vikasnehra@server ~]$ cd /tmp/backup/
vikasnehra@server backup]$ ll
otal 4
rw-rw-r--. 1 vikasnehra vikasnehra 136 Jun 14 19:59 cal.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test10.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test1.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test2.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test3.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test4.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test5.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test6.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test7.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test8.txt
rw-rw-r--. 1 vikasnehra vikasnehra   0 Jun 14 19:59 test9.txt
vikasnehra@server backup]$
```

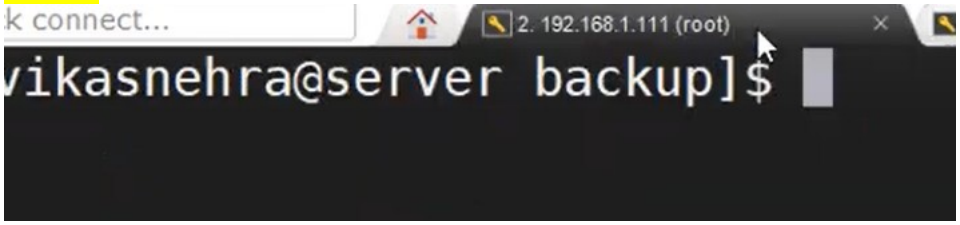
```
[vikasnehra@server backup]$ cat cal.txt
      June 2020
Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30

[vikasnehra@server backup]$ c
```

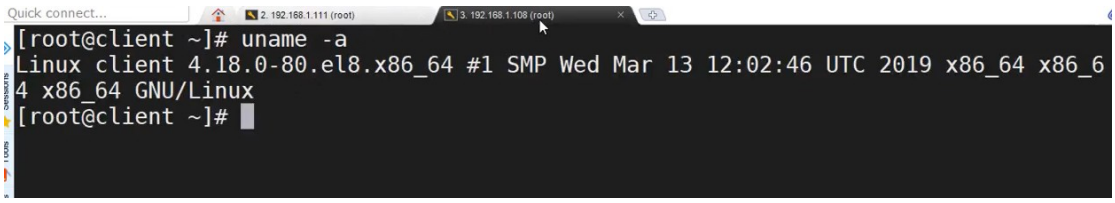
 # Files have successfully created /tmp folder -in same Machine

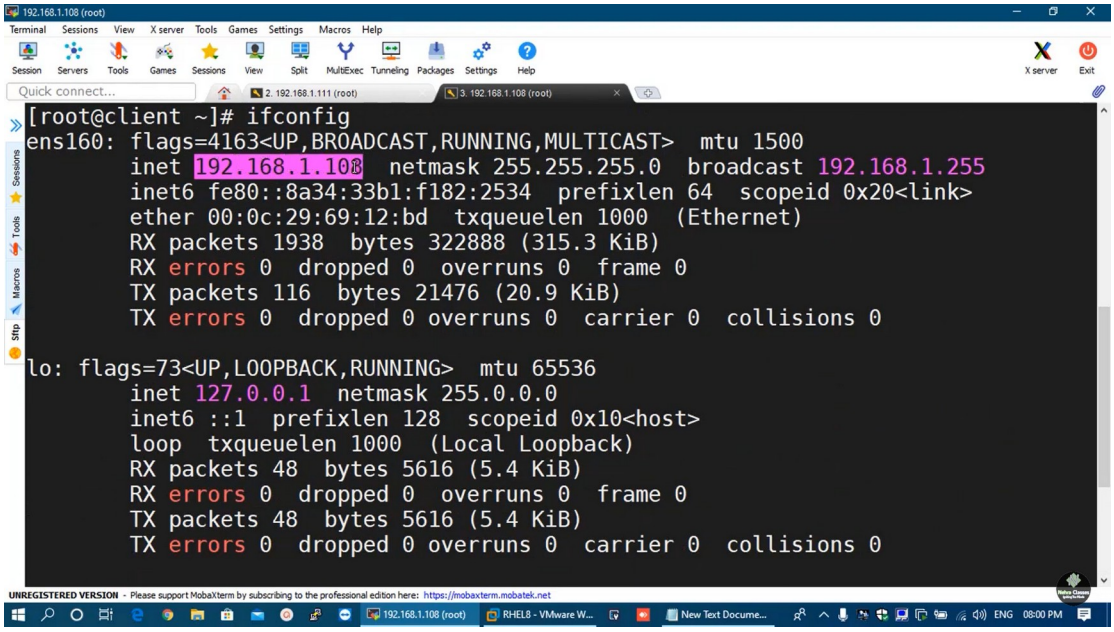
 # 2 . Rsync backup Source to Destination machine

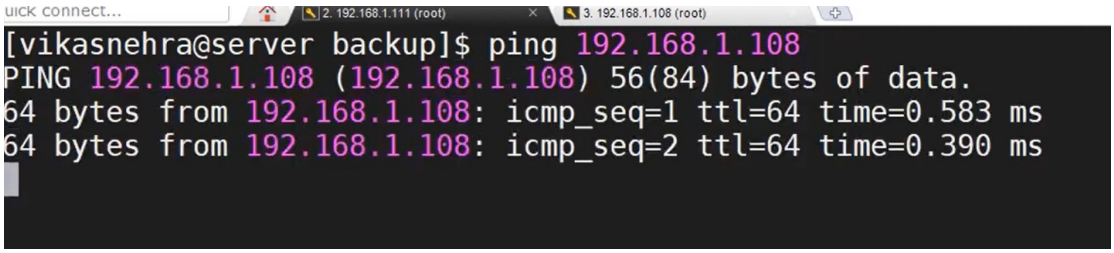
 # Source



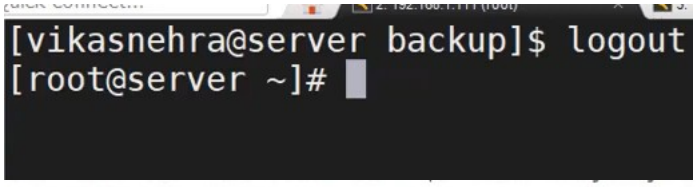
#Destination - Remote location

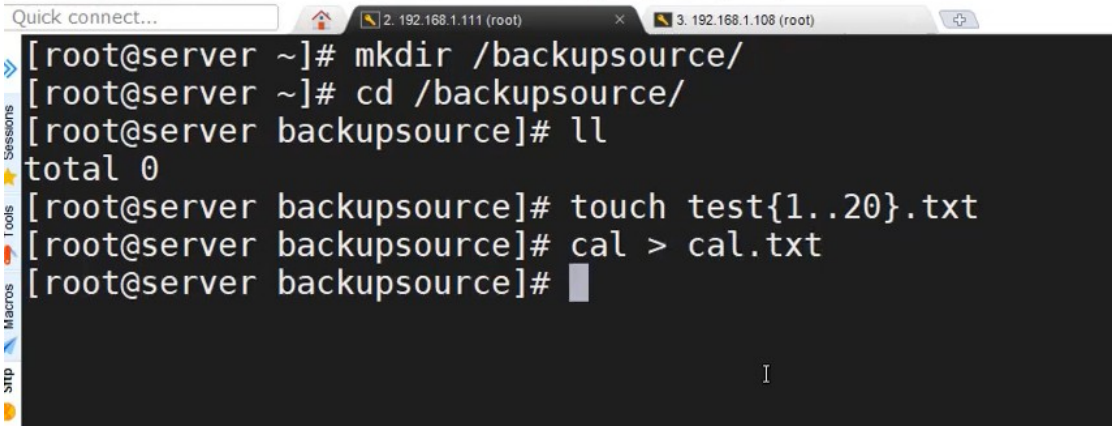






 # Come back to Root user account- Source





```
-rw-r--r--. 1 root root   0 Jun 14 20:01 test12.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test13.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test14.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test15.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test16.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test17.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test18.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test19.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test1.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test20.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test2.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test3.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test4.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test5.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test6.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test7.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test8.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test9.txt
[root@server backupsource]#
```

 # Go to Destination … Create a backup

```
[root@client ~]# rpm -qa | grep rsync
rsync-3.1.3-4.el8.x86_64
[root@client ~]# clear
```

```
[root@client ~]# mkdir -p /backupdestination/
[root@client ~]# cd /backupdestination/
[root@client backupdestination]# ll
total 0
[root@client backupdestination]#
```

 # Now time to Rsync from Source to Destination Move the backupfiles to Remote location

```
[root@server backupsource]# rsync -av -e ssh /backupsource/ root@192.168.1.108:/ba
ckupdestination/
The authenticity of host '192.168.1.108 (192.168.1.108)' can't be established.
ECDSA key fingerprint is SHA256:9kj2akycdfmtziFmDcWVrZHAsKYjqvuYNaiqcYr55h0.
ECDSA key fingerprint is MD5:5b:27:c6:bd:ae:c3:47:8d:1c:c7:df:f1:4a:1e:2a:9d.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.1.108' (ECDSA) to the list of known hosts.
root@192.168.1.108's password:
```

```
test14.txt
test15.txt
test16.txt
test17.txt
test18.txt
test19.txt
test2.txt
test20.txt
test3.txt
test4.txt
test5.txt
test6.txt
test7.txt
test8.txt
test9.txt

sent 1,379 bytes  received 418 bytes  133.11 bytes/sec
total size is 136  speedup is 0.08
[root@server backupsource]#
```

 # Check Destination Server

```
[root@client ~]# mkdir -p /backupdestination/
[root@client ~]# cd /backupdestination/
[root@client backupdestination]# ll
total 0
[root@client backupdestination]# ll
```

```
-rw-r--r--. 1 root root   0 Jun 14 20:01 test12.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test13.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test14.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test15.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test16.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test17.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test18.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test19.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test1.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test20.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test2.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test3.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test4.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test5.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test6.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test7.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test8.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test9.txt
```

```
[root@client backupdestination]# cat cal.txt
      June 2020
Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30

[root@client backupdestination]# clear
```


 # File are successfully copied to Destination/remote Server using Rsync

 # Last final Task how to Automate this Process using Cronjob

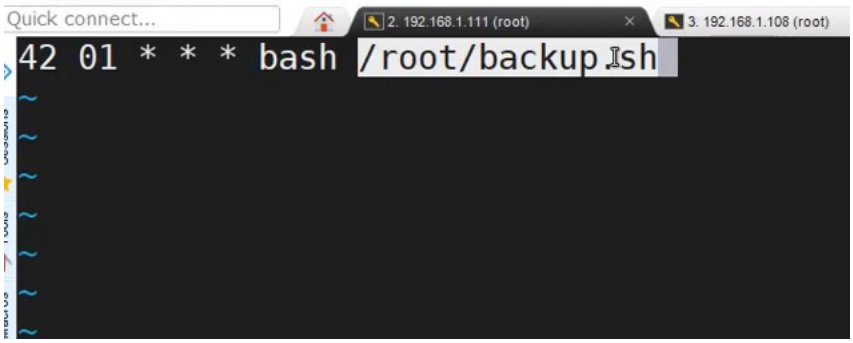
 # source

```
[root@server backupsource]# crontab -e
```

 # Ref - destination

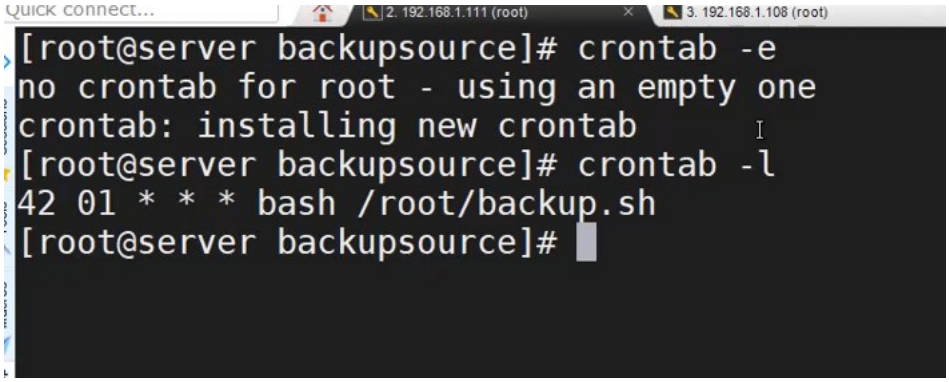
```
[root@client backupdestination]# date
Mon Jun 15 01:37:22 IST 2020
[root@client backupdestination]#
```

 # Source

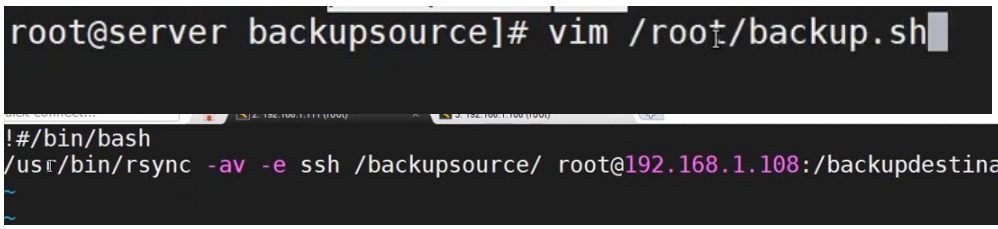


42 : min / 01 -hr / * -day off month / * - each month /* day of Week-each day /script-Location

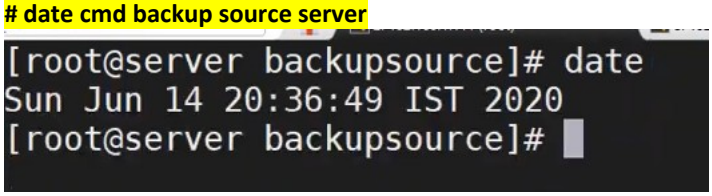
 # Save + exit : wq!

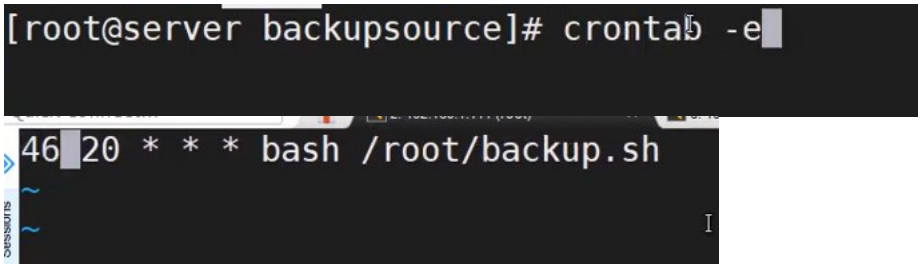


 # Create Script file for this crontab , which will automate the backup process



 # date cmd backup source server





This script will execute @ 20:hrs: 46mins in this machine

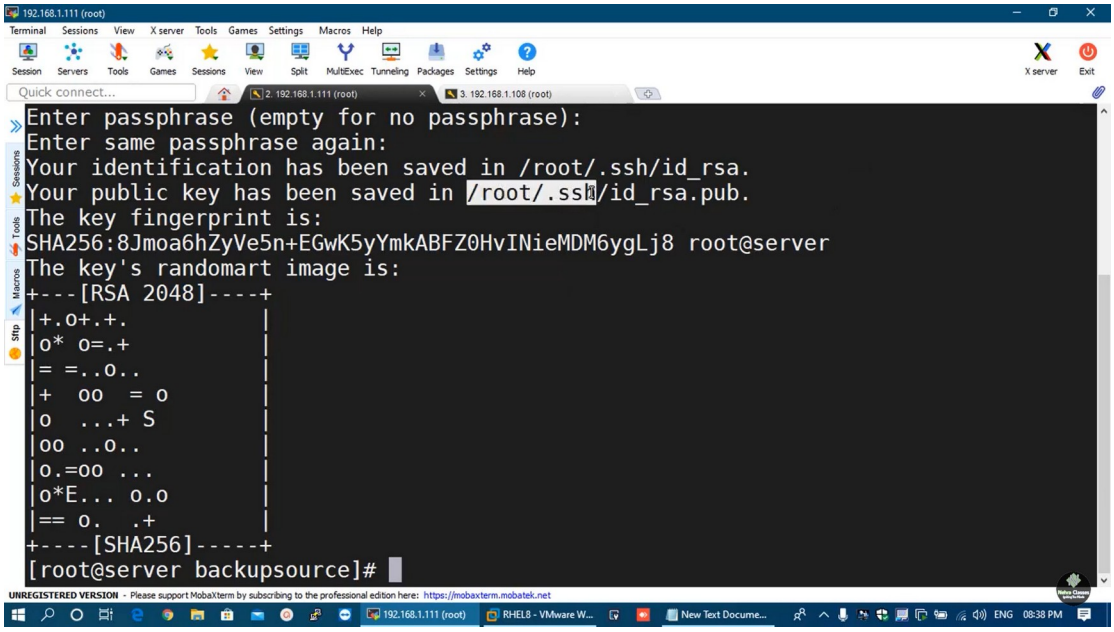
 # SaVE + EXIT - wq!

```
[root@server backupsource]# crontab -e
crontab: installing new crontab
[root@server backupsource]#
```

 # move to destination sever

```
[root@client backupdestination]# ll
total 0
[root@client backupdestination]#
```

 # Create ssh-keys in Source



 # Go to server set the below cmd

```
[root@client backupdestination]# mkdir -p /root/.ssh/
[root@client backupdestination]#
```

 # Source to destination Server

```
[root@server backupsource]# scp -r /root/.ssh/id_rsa.pub root@192.168.1.108:/root/
.ssh/authorized_keys
root@192.168.1.108's password:
id_rsa.pub                                    100%  393   381.6KB/s   00:00
[root@server backupsource]#
```

 # Modify the permissions on the destination server

```
[root@client backupdestination]# chmod 700 /root/.ssh/
[root@client backupdestination]# chmod 600 /root/.ssh/authorized_keys
```

 # Source

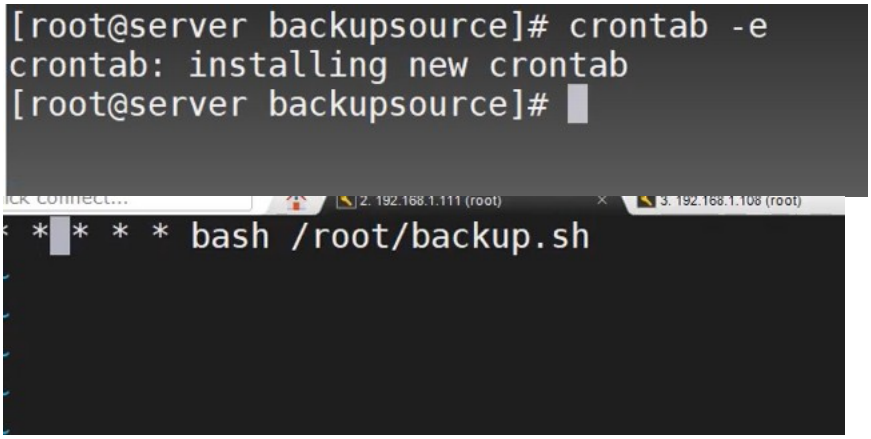
```
[root@server backupsource]# tail -f /var/log/cron
Jun 14 20:34:01 server crond[1395]: (root) RELOAD (/var/spool/cron/root)
Jun 14 20:34:58 server crontab[3177]: (root) BEGIN EDIT (root)
Jun 14 20:35:13 server crontab[3177]: (root) REPLACE (root)
Jun 14 20:35:13 server crontab[3177]: (root) END EDIT (root)
Jun 14 20:36:01 server crond[1395]: (root) RELOAD (/var/spool/cron/root)
Jun 14 20:37:01 server crontab[3199]: (root) BEGIN EDIT (root)
Jun 14 20:37:15 server crontab[3199]: (root) REPLACE (root)
Jun 14 20:37:15 server crontab[3199]: (root) END EDIT (root)
Jun 14 20:38:01 server crond[1395]: (root) RELOAD (/var/spool/cron/root)
Jun 14 20:40:01 server CROND[3231]: (root) CMD (/usr/lib64/sa/sa1 1 1)
```

```
Jun 14 20:34:01 server crond[1395]: (root) RELOAD (/var/spool/cron/root)
Jun 14 20:34:58 server crontab[3177]: (root) BEGIN EDIT (root)
Jun 14 20:35:13 server crontab[3177]: (root) REPLACE (root)
Jun 14 20:35:13 server crontab[3177]: (root) END EDIT (root)
Jun 14 20:36:01 server crond[1395]: (root) RELOAD (/var/spool/cron/root)
Jun 14 20:37:01 server crontab[3199]: (root) BEGIN EDIT (root)
Jun 14 20:37:15 server crontab[3199]: (root) REPLACE (root)
Jun 14 20:37:15 server crontab[3199]: (root) END EDIT (root)
Jun 14 20:38:01 server crond[1395]: (root) RELOAD (/var/spool/cron/root)
Jun 14 20:40:01 server CROND[3231]: (root) CMD (/usr/lib64/sa/sa1 1 1)
Jun 14 20:46:01 server CROND[3296]: (root) CMD (bash /root/backup.sh)
```

 # destination server

```
[root@client backupdestination]# ll
total 4
-rw-r--r--. 1 root root 136 Jun 14 20:01 cal.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test10.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test11.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test12.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test13.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test14.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test15.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test16.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test17.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test18.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test19.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test1.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test20.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test2.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test3.txt
-rw-r--r--. 1 root root   0 Jun 14 20:01 test4.txt
```

Note : If I need to backup every min / every hr / every sec from Source to Destination machine


[root@server backupsource]# crontab -e
crontab: installing new crontab
[root@server backupsource]#
2. 192.168.1.111 (root)
3. 192.168.1.108 (root)
* * * * * bash /root/backup.sh