



THE QUICK BACKUP GUIDE

Amanda

BETSOL

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1 TAKE A BACKUP USING AMANDA

1.1 UNLOCK THE AMANDABACKUP USER

1. Login/ssh into the server as user with admin privileges
2. Unlock the amandabackup user using **'passwd -uf amandabackup'**

```
[root@aeclient-centos7 ~]# passwd -uf amandabackup
Unlocking password for user amandabackup.
passwd: Success
[root@aeclient-centos7 ~]# █
```

3. Assign a password for the amandabackup user using **'passwd amandabackup'**

```
[root@aeclient-centos7 ~]# passwd amandabackup
Changing password for user amandabackup.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@aeclient-centos7 ~]# █
```

4. Logout of the server

1.2 ADD A BACKUP SET

1. Login /ssh into the server as the amandabackup user
2. Create a directory for Amanda configuration using **'mkdir /etc/amanda/DailySet1'**

```
[root@aeclient-centos7 ~]# su - amandabackup
-bash-4.2$ mkdir /etc/amanda/DailySet1
-bash-4.2$ █
```

3. Copy the example configuration file present in **'/var/lib/amanda/example/amanda.conf'** to **'/etc/amanda/DailySet1'** using **'cp /var/lib/amanda/example/amanda.conf etc/amanda/DailySet1'**

4. Open **'/etc/amanda/DailySet1/amanda.conf'** in vi using **'vi /etc/amanda/DailySet1/amanda.conf'**

5. Add the following lines to specify the size of the virtual tapes:

```
define tapetype HARDDISK {
```

```
length 100000 mbytes #size of the harddisk is 100000mbytes
```

```
}
```

```
taperscan "taper_lexical"

# You may include other amanda configuration files, so you can share
# dumptypes, tapetypes and interface definitions among several
# configurations.

#includefile "/etc/amanda/amanda.conf.main"

define tapetype HARDDISK {
length 100000 mbytes
}
:wq
```

6. Scroll to the 'define dumptype global' section in the file and add the line 'auth bsdtcp' line before the closing bracket

```
define dumptype global {
  comment "Global definitions"
  # This is quite useful for setting global parameters, so you don't have
  # to type them everywhere. All dumptype definitions in this sample file
  # do include these definitions, either directly or indirectly.
  # There's nothing special about the name `global'; if you create any
  # dumptype that does not contain the word `global' or the name of any
  # other dumptype that contains it, these definitions won't apply.
  # Note that these definitions may be overridden in other
  # dumptypes, if the redefinitions appear *after* the `global'
  # dumptype name.
  # You may want to use this for globally enabling or disabling
  # indexing, recording, etc. Some examples:
  # index yes
  # record no
  auth "bsdtcp"
}

define dumptype always-full {
  global
  comment "Full dump of this filesystem always"
  compress none
  priority high
  dumpcycle 0
}

# Dumptypes for gnutar
define dumptype root-tar {
  global
  program "GNUTAR"
  comment "root partitions dumped with tar"
  compress none
  index
  # exclude list "/etc/amanda/exclude.gtar"
  priority low
-- INSERT --
```

7. Save and close the file
8. Logout of the server

1.3 CREATE A HOLDING DISK

1. Login/ssh into the server as user with admin privileges
2. Create a cache directory to use as a holding disk using `'mkdir -p /dumps/amanda'`

```
Last login: Tue Oct  9 13:27:54 2018 from 192.168.168.62
[root@aeclient-centos7 ~]# mkdir -p /dumps/amanda
```

3. Change the ownership of the holding disk using `'chown amandabackup:disk /dumps/amanda'`
4. Set the appropriate permissions for the holding disk using `'chmod 750 /dumps/amanda'`

```
[root@aeclient-centos7 ~]# chown amandabackup:disk /dumps/amanda
[root@aeclient-centos7 ~]# chmod 750 /dumps/amanda
[root@aeclient-centos7 ~]#
```

5. Logout of the server

1.4 CREATE AND CONFIGURE THE VIRTUAL TAPES

1. Login/ssh into the server as user with admin privileges
2. Create a directory for vtapes using `'mkdir -p /var/amanda/vtapes'`
3. Change the ownership for vtapes using `'chown amandabackup:disk /var/amanda/vtapes'`
4. Set appropriate permissions using `'chmod 755 /var/amanda/vtapes'`

```
[root@aeclient-centos7 ~]# mkdir -p /var/amanda/vtapes
[root@aeclient-centos7 ~]# chown amandabackup:disk /var/amanda/vtapes
[root@aeclient-centos7 ~]#
```

5. Open `'/etc/amanda/DailySet1/amanda.conf'` in vi using `'vi /etc/amanda/DailySet1/amanda.conf'`
6. Remove the line `'tapedev "file: ..."'`
7. Add the line `'tapedev "chg-disk:/var/amanda/vtapes"'`

```
# To use vtapes, create some slotN directories (slot0, slot1, etc.) under
# /var/amanda/vtapes and use this tapedev:
tapedev "chg-disk:/var/amanda/vtapes"
```

8. Save and close the file
9. Logout of the server

10. Login/ssh into the server as the amandabackup user
11. Change the directory using `'cd /var/amanda/vtapes'`
12. Create slots for the vtape using `'for ((i=1; $i<=25; i++)); do mkdir slot$i; amlabel`

DailySet1 DailySet1-\$i slot \$i;done'

```
-bash-4.2$ for ((i=1; $i<=25; i++)); do mkdir slot$i; amlabel DailySet1 DailySet1-$i slot $i;done
Reading label...
Found an empty tape.
Writing label 'DailySet1-1'...
Checking label...
Success!
Reading label...
Found an empty tape.
Writing label 'DailySet1-2'...
Checking label...
Success!
Reading label...
Found an empty tape.
Writing label 'DailySet1-3'...
Checking label...
Success!
```

13. Logout of the server

1.5 CONFIGURE THE BACKUP SET

1. Login/ssh into the server as the amandabackup user
2. Create a file to store the list of directories to backup using `'vi /etc/amanda/DailySet1/disklist'`
3. Add one line per directory to back up in the following format

IP_address_of_the_client directory_to_backup comp-user-tar

```
192.168.0.243 comp-user-tar
```

4. Save and close the file
5. Open the `'/var/lib/amanda/.amandahosts'` in vi using `'vi /var/lib/amanda/.amandahosts'`
6. Add one line per client in the following format

IP_address_of_the_client amandabackup amdump

```
localhost root amindexd amidxtaped
localhost.localdomain root amindexd amidxtaped
localhost amandabackup amdump
localhost.localdomain amandabackup amdump
```

7. Create a cron job to run the command '/usr/sbin/amdump DailySet1'.

```
-bash-4.2$
-bash-4.2$ /usr/sbin/amdump DailySet1
-bash-4.2$
```

8. Logout of the server

1.6 VERIFY THE BACKUP CONFIGURATION

1. Login/ssh into the server as the amandabackup user
2. Run the amcheck tool using '**amcheck DailySet1**'. If running "amcheck" gives compilation error for JSON, then uninstall the perl-JSON and then reinstall perl-JSON.
3. Logout of the server

1.7 RUN A BACKUP

1. Login/ssh into the server as the amandabackup user
2. Run amdump to start the DailySet1 using '**amdump DailySet1**'

```
-bash-4.2$
-bash-4.2$ amdump DailySet1
-bash-4.2$
```

3. Run the tool amadmin using '**amadmin DailySet1 find**'

```
-bash-4.2$ amadmin DailySet1 find
```

4. Logout of the server