THE QUICK SETUP GUIDE

Amanda Community
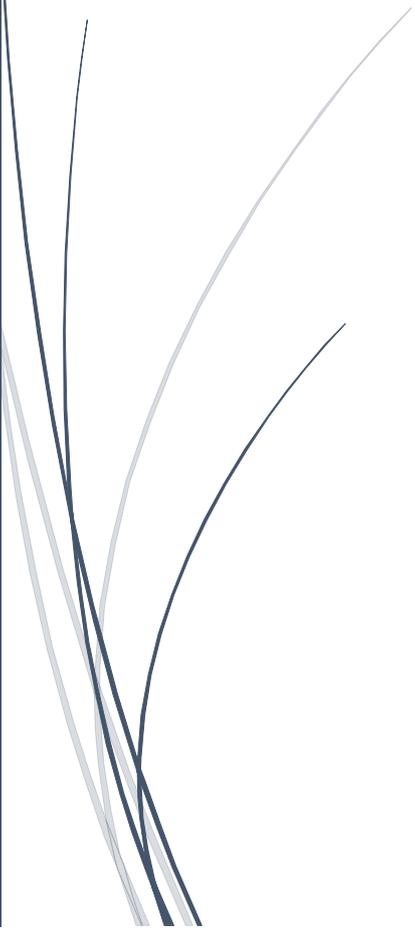
BETSOL

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1   STEPS TO INSTALL AMANDA BACKUP SERVER ON CENTOS 7

1.1   INSTALL AMANDA BACKUP SERVER

1. Run through [Dependencies for Amanda backup server](#) and ensure all the
   dependencies are installed before proceeding.

2. Login/ssh into the server as user with admin privileges

3. To download the install package using '**wget**
   https://www.zmanda.com/downloads/community/Amanda/3.5.1/Redhat_Enterp
   rise_7.0/amanda-backup_server-3.5.1-1.rhel7.x86_64.rpm'

```
[root@aeclient-centos7 ~]# wget https://www.zmanda.com/downloads/community/Amanda/3.5.1/Redhat_Enterprise_7.0/amanda-backup_server-3.5.1-
1.rhel7.x86_64.rpm
--2018-11-20 01:57:17--  https://www.zmanda.com/downloads/community/Amanda/3.5.1/Redhat_Enterprise_7.0/amanda-backup_server-3.5.1-1.rhel7
.x86_64.rpm
Resolving www.zmanda.com (www.zmanda.com)... 34.217.188.207
Connecting to www.zmanda.com (www.zmanda.com)|34.217.188.207|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2777180 (2.6M) [application/x-rpm]
Saving to: 'amanda-backup_server-3.5.1-1.rhel7.x86_64.rpm'

100%[===========================================================================================>] 2,777,180   4.04MB/s   in 0.7s

2018-11-20 01:57:18 (4.04 MB/s) - 'amanda-backup_server-3.5.1-1.rhel7.x86_64.rpm' saved [2777180/2777180]

[root@aeclient-centos7 ~]#
```

4. Run the install package by using the command
   '**rpm -ivh amanda-backup_server-3.5.1-1.rhel7.x86_64.rpm**'

```
[zmanda@aeclient-centos7 ~]$ sudo rpm -ivh amanda-backup_server-3.5.1-1.rhel7.x86_64.rpm
[sudo] password for zmanda:
Preparing...                          ################################# [100%]
        file /etc/amanda/amanda-security.conf from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package
amanda_enterprise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amaespipe from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_enterp
rise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amarchiver from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_enter
prise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/ambackup from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_enterpr
ise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amcrypt from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_enterpri
se-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amcrypt-ossl from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_ent
erprise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amcrypt-ossl-asym from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amand
a_enterprise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amdump_client from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_en
terprise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amgetconf from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_enterp
rise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amoldrecover from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_ent
erprise-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amplot from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_enterpris
e-backup_client-3.6.7714-1.rhel7.x86_64
        file /usr/sbin/amrecover from install of amanda-backup_server-3.5.1-1.rhel7.x86_64 conflicts with file from package amanda_enterp
```

5. Reload the xinetd service by running
   '**service xinetd reload**'

```
[root@testlab1 ~]# service xinetd reload
Redirecting to /bin/systemctl reload xinetd.service
[root@testlab1 ~]#
```

6. Logout of the server

NOTE: Run through the Additional checks for Amanda backup server to make sure the setup is completed successfully.

2 STEPS TO INSTALL AMANDA BACKUP CLIENT ON CENTOS 7

2.1 INSTALL AMANDA BACKUP CLIENT

1. Run through Dependencies for Amanda backup client and ensure all the dependencies are installed before proceeding.

2. Login/ssh into the client as user with admin privileges

3. To download the install package using 'wget

https://www.zmanda.com/downloads/community/Amanda/3.5.1/Redhat_Enterprise_7.0/amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm

```
[root@aeclient-centos7 ~]# wget https://www.zmanda.com/downloads/community/Amanda/3.5.1/Redhat_Enterprise_7.0/amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm
--2018-11-20 02:09:18--  https://www.zmanda.com/downloads/community/Amanda/3.5.1/Redhat_Enterprise_7.0/amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm
Resolving www.zmanda.com (www.zmanda.com)... 34.217.188.207
Connecting to www.zmanda.com (www.zmanda.com)|34.217.188.207|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2505296 (2.4M) [application/x-rpm]
Saving to: 'amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm'

100%[===============================================================================>] 2,505,296   3.64MB/s   in 0.7s

2018-11-20 02:09:19 (3.64 MB/s) - 'amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm' saved [2505296/2505296]
```

4. Run the install package by using the command

'sudo **rpm -ivh amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm**'

```
[zmanda@aeclient-centos7 ~]$ sudo yum install amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm
Loaded plugins: fastestmirror
Examining amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm: amanda-backup_client-3.5.1-1.rhel7.x86_64
Marking amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm to be installed
Resolving Dependencies
--> Running transaction check
---> Package amanda-backup_client.x86_64 0:3.5.1-1.rhel7 will be installed
--> Processing Dependency: perl(XML::Simple) for package: amanda-backup_client-3.5.1-1.rhel7.x86_64
Loading mirror speeds from cached hostfile
 * base: mirror.cs.uwp.edu
 * extras: mirrors.unifiedlayer.com
 * updates: repo.ialab.dsu.edu
--> Running transaction check
---> Package perl-XML-Simple.noarch 0:2.20-5.el7 will be installed
--> Processing Dependency: perl(XML::SAX) for package: perl-XML-Simple-2.20-5.el7.noarch
--> Running transaction check
---> Package perl-XML-SAX.noarch 0:0.99-9.el7 will be installed
--> Processing Dependency: perl(LWP::UserAgent) for package: perl-XML-SAX-0.99-9.el7.noarch
--> Running transaction check
---> Package perl-libwww-perl.noarch 0:6.05-2.el7 will be installed
--> Processing Dependency: perl(WWW::RobotRules) >= 6 for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTTP::Status) >= 6 for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTTP::Response) >= 6 for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTTP::Request::Common) >= 6 for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTTP::Request) >= 6 for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTTP::Negotiate) >= 6 for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTTP::Daemon) >= 6 for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTTP::Cookies) >= 6 for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTML::HeadParser) for package: perl-libwww-perl-6.05-2.el7.noarch
--> Processing Dependency: perl(HTML::Entities) for package: perl-libwww-perl-6.05-2.el7.noarch
--> Running transaction check
```

5. Run command '**vi /etc/xinetd.d/amandaclient**' and paste the following contents:

```
# default: on
#
# description: Amanda services for Amanda server and client.
#
service amanda
{
disable       = no
socket_type   = stream
protocol      = tcp
wait          = no
user          = amandabackup
group         = disk
groups        = yes
server        = /usr/lib/amanda/amandad
server_args   = -auth=bsdtcp amdump amindexd amidxtaped
}
```

```
# default: on
#
# description: The Amanda backup client should be enabled for systems
#              which will be backed up by an Amanda backup server.

service amanda
{
        disable       = no
        flags         = IPv4
        socket_type   = stream
        protocol      = tcp
        wait          = no
        user          = amandabackup
        group         = disk
        groups        = yes
        server        = /usr/libexec/amanda/amandad
        server_args   = -auth=bsdtcp amdump senddiscover
}
~
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~
"/etc/xinetd.d/amandaclient" [readonly] 18L, 405C
```

6. Reload the xinetd service by running '**service xinetd reload**'

```
[root@testlab1 ~]# service xinetd reload
Redirecting to /bin/systemctl reload xinetd.service
[root@testlab1 ~]#
```

7. Logout of the client

2.2 UNLOCK THE AMANDABACKUP USER

1. Login/ssh into the client as user with admin privileges

2. Unlock the amandabackup user using '**passwd -u amandabackup**'

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

3. Assign a password for the amanddabackup 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 client

2.3 CONFIGURE AMANDA BACKUP CLIENT

1. Login /ssh into the server as amandabackup user

2. Add the location of the server using the command '**echo *IP_ADDRESS_OF_SERVER* amandabackup amdump >> /var/lib/amanda/.amandahosts**'

```
[root@aeclient-centos7 ~]# echo 192.168.0.114 amandabackup amdump >> /var/lib/amanda/.amandahosts
[root@aeclient-centos7 ~]#
```

3. Specify appropriate permissions for the file using '**chmod 700 /var/lib/amanda/.amandahosts**'

```
[root@aeclient-centos7 ~]# chmod 700 /var/lib/amanda/.amandahosts
[root@aeclient-centos7 ~]#
```

4. Service xinetd reload

```
[root@testlab1 ~]# service xinetd reload
Redirecting to /bin/systemctl reload xinetd.service
[root@testlab1 ~]# █
```

3 APPENDIX

3.1 DEPENDENCIES FOR AMANDA BACKUP SERVER

1. Login/ssh into the server as user with admin privileges

2. Update the packages using "**yum update"** (optional). If it gives error as "**Cannot find a valid baseurl for repo**" then run the following command "**dhclient**". This should re-generate a file "**/etc/resolv.conf**".

```
[zmanda@aeclient-centos7 ~]$ sudo yum update
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror.cs.uwp.edu
 * extras: mirrors.unifiedlayer.com
 * updates: repo.ialab.dsu.edu
Resolving Dependencies
--> Running transaction check
---> Package centos-release.x86_64 0:7-5.1804.4.el7.centos will be updated
---> Package centos-release.x86_64 0:7-5.1804.5.el7.centos will be an update
---> Package tzdata.noarch 0:2018e-3.el7 will be updated
---> Package tzdata.noarch 0:2018f-2.el7 will be an update
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package          Arch            Version                  Repository      Size
================================================================================
Updating:
 centos-release   x86_64          7-5.1804.5.el7.centos    updates         25 k
 tzdata           noarch          2018f-2.el7              updates        484 k

Transaction Summary
================================================================================
Upgrade  2 Packages

Total download size: 509 k
Is this ok [y/d/N]: y
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
(1/2): centos-release-7-5.1804.5.el7.centos.x86_64.rpm          |  25 kB  00:00:01
(2/2): tzdata-2018f-2.el7.noarch.rpm                            | 484 kB  00:00:01
--------------------------------------------------------------------------------
Total                                              256 kB/s | 509 kB  00:00:01
```

3. Install wget to fetch the install packages using '**yum install wget**'

```
[zmanda@aeclient-centos7 ~]$ sudo yum install wget
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror.cs.uwp.edu
 * extras: mirrors.unifiedlayer.com
 * updates: repo.ialab.dsu.edu
Resolving Dependencies
--> Running transaction check
---> Package wget.x86_64 0:1.14-15.el7_4.1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package          Arch            Version              Repository        Size
================================================================================
Installing:
 wget             x86_64          1.14-15.el7_4.1      base              547 k

Transaction Summary
================================================================================
Install  1 Package

Total download size: 547 k
Installed size: 2.0 M
Is this ok [y/d/N]: y
Downloading packages:
wget-1.14-15.el7_4.1.x86_64.rpm                          | 547 kB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
```

4. Install the required dependencies using '**yum install glib* xinetd perl-Data-Dumper perl-Encode-Locale perl-JSON perl-URI-Escape perl-XML-Simple**'

```
[root@aeclient-centos7 ~]# yum install glib* xinetd perl-Data-Dumper perl-Encode-Locale perl-JSON perl-URI-Escape perl-XML-Simple
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: repos.dfw.quadranet.com
 * extras: mirrors.syringanetworks.net
 * updates: repos.forethought.net
```

5. Logout of the server

3.2 ADDITIONAL CHECKS FOR AMANDA BACKUP SERVER

After installing amanda-backup_server rpm, if "service xinetd reload" is giving any error, then do the following:

a. Uninstall "amanda-backup_server" using command:
   "**rpm -e amanda-backup_server-3.5.1-1.rhel7.x86_64.rpm**"
b. Then uninstall xinetd package using command:
   "**rpm -e <xinetd package name>**".

```
[root@aeclient-centos7 ~]#
[root@aeclient-centos7 ~]# rpm -e xinetd
[root@aeclient-centos7 ~]#
```

To get the exact name of xinetd package use the command:
"**rpm -qa | grep xinetd**"

```
[root@aeclient-centos7 ~]# rpm -qa | grep xinetd
xinetd-2.3.15-13.el7.x86_64
[root@aeclient-centos7 ~]#
```

c. Install xinetd package using command:
"**yum install xinetd**"

d. Start xinetd service using command:
"**service xinetd start**"

e. Install Amanda server package using command:
"**rpm –ivh amanda-backup_server-3.5.1-1.rhel7.x86_64.rpm**"

f. Reload xinetd service using command:
"**service xinetd reload**"

- Check the hostname of the server system is set correctly. Use "**hostname**" command to set.
- Check the permission of file **"/etc/amanda/amanda-security.conf".** The permission should be "644". Use the following command to change the permission:
"**chmod 644 /etc/amanda/amanda-security.conf**"

3.3 DEPENDENCIES FOR AMANDA BACKUP CLIENT

1. Login/ssh into the server as user with admin privileges

2. Update the packages using '**yum update**' (optional)

3. Install wget to fetch the install packages using '**yum install wget**'

4. Install the required dependencies using '**yum install glib* xinetd perl-Data-Dumper perl-Encode-Locale perl-JSON perl-URI-Escape perl-XML-Simple**'

5. Install the perl using '**yum install perl**'

```
[root@aeclient-centos7 ~]# yum install perl
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror.chpc.utah.edu
 * extras: mirrors.syringanetworks.net
 * updates: repos.forethought.net
Resolving Dependencies
--> Running transaction check
---> Package perl.x86_64 4:5.16.3-292.el7 will be installed
--> Processing Dependency: perl-libs = 4:5.16.3-292.el7 for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Socket) >= 1.3 for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Scalar::Util) >= 1.10 for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl-macros for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl-libs for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(threads::shared) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(threads) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(constant) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Time::Local) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Time::HiRes) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Storable) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Socket) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Scalar::Util) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Pod::Simple::XHTML) for package: 4:perl-5.16.3-292.el7.x86_64
--> Processing Dependency: perl(Pod::Simple::Search) for package: 4:perl-5.16.3-292.el7.x86_64
```