

THE QUICK SETUP GUIDE

Amanda



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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_Enterprise_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_enterp
rise-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_enterp
rise-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_enterp
rise-backup_client-3.6.7714-1.rhel7.x86_64
file /usr/sbin/amcrypt-oss1 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-oss1-assy 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/amqetconf 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 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_Enterprise_7.0/amanda-backup_client-3.5.1-1.rhel7.x86_64.rpm

```
[root@aclient-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@aclient-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
}
```

```
root@kali:~# vi /etc/xinetd.d/amandaclient
# 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
}

~/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 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 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 amanda backup 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"**.

```
lzmada@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.salab.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/applydelta 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'**

```
lzmada@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.salab.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

➤ ADDITIONAL CHECKS FOR AMANDA BACKUP SERVER AFTER INSTALLING AMANDA-BACKUP_SERVER RPM, IF “SERVICE XINETD RELOAD” IS GIVING ANY ERROR, THEN DO THE FOLLOWING:

- Uninstall “amanda-backup_server” using command:
“rpm -e amanda-backup_server-3.5.1-1.rhel7.x86_64.rpm”
- 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 ~]# █
```

- Install xinetd package using command:
“yum install xinetd”

```
[root@aeclient-centos7 ~]# yum install xinetd
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror.cs.unp.edu
 * extras: mirrors.unifiedlayer.com
 * updates: repo.lalab.dsu.edu
Resolving Dependencies
--> Running transaction check
--> Package xinetd.x86_64 2:2.3.15-13.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                Arch          Version           Repository        Size
=====
Installing:
xinetd                  x86_64        2:2.3.15-13.el7  base              128 k
Transaction Summary
-----
Install 1 Package

Total download size: 128 k
Installed size: 261 k
Is this ok [y/d/N]: y
Downloading packages:
xinetd-2.3.15-13.el7.x86_64.rpm                               | 128 kB  00:00:01
Running transaction check
Running transaction test
Transaction test succeeded
```

- Start xinetd service using command:
“service xinetd start”

```
Last login: Tue Nov 20 04:17:04 2018 from bsl-bng-l267.betsol.com
[root@aeclient-centos7 ~]# service xinetd start
Redirecting to /bin/systemctl start xinetd.service
[root@aeclient-centos7 ~]# █
```


- 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"

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

- ▲ 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"

3.2 DEPENDENCIES FOR AMANDA BACKUP CLIENT

1. Login/ssh into the server as user with admin privileges
2. Update the packages using 'yum update' (optional)

```
[amanda@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'

```
[izmand@client-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@client-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. Install the perl using 'yum install perl'

```
[root@client-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::HTML) 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
```