Active Circle

Active Data Mover Installation Guide

Active Circle Storage System

Active Data Mover

Version 1.4

Abstract

This document describes the prerequisites
and installation procedures for the Active Data Mover.

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Contents

Prerequisites

The Active Data Mover software allows you to move, copy and synchronize data between your primary storage (SAN or NAS) and the Active Circle secondary storage. The table belows lists the software necessary for running the ADM on a new system.

Type	Software
Operating System	CentOS Linux 7.0 or higher
Java	Java 8
Application Server	Apache Tomcat version 7
Storage System	Active Circle and AMC version 4.6 or higher

> ⚠️ **Important**
>
> The server were the ADM web application will be installed must have internet access.

> 💡 **Tip**
>
> The primary storage needs to be accessible from the Active Data Mover, either locally (from a local mount point on the Active Media Connector system) or remotely (through the FTP, NFS or CIFS protocols). FTP servers used as source for the Active Data Mover need to support FXP (File eXchange Protocol). If FTP is not available, the preferred protocol is NFS using automount. The NFS option no_root_squash should be used (to allow access for the root user).
>
> The secondary storage (destination servers) will be running on Active Circle.

> ℹ️ **Note**
>
> The CentOS Linux 6.X operating system is only supported for existing system.

The ADM can be installed on a dedicated server or on one of the Active Circle nodes. It can also be installed on the same machine as the AMC and/or the AME web applications.

If ADM is installed on:

- an Active Circle node, the OS prerequisites are the same as Active Circle's requirements.
- a dedicated server, the OS prerequisites are minimum install with firewalld and SELinux services deactivated.

The ADM installation package can be downloaded from the Active Circle FTP server. It is located in the following directory:

```
/downloads/Binaries/ADM
```

The binary installation file is named according to the following syntax:

```
adm-version.bin
```

Make executable the binary installation file:

```
chmod +x adm-1.4.0.bin
```

Installation

The ADM web application can be installed on a dedicated server or on one of the Active Circle node. Check your internet connection and install the Active Data Mover web application, by running the installation executable with the -w option:

./adm-*1.4.0*.bin -w

The numbers in *italics* represent the AMC version. Replace the values if your executable is more recent.

This will automatically install and deploy the prerequisites, web application and their configuration files.

```
[...]
Install webapp
Extract current ADM
Configuration
Copy config file under /etc/ac/datamover-config.groovy
Restart tomcat
done                                                        [   OK   ]
```

All the logs are store in the file: /var/log/adm_install.log

> **Tip**
>
> For manual installation, it is possible to extract the contents of the executable without installation, using the -x option.

Upgrading the software

This is the same process and package as installation.

> **Important**
>
> The update operation will likely require the restart of various services.

> **Tip**
>
> The existing tomcat, web application and plugin configuration file will not be modified.

Check the configuration

Once the Active Data Mover is installed you must check the configuration.

Access Port

Verify the access port (default: 8081) with the following URL address:

`http://admservername:8081/datamover`

The ADM home page should appear as follows:

Figure 1. The ADM Home Page
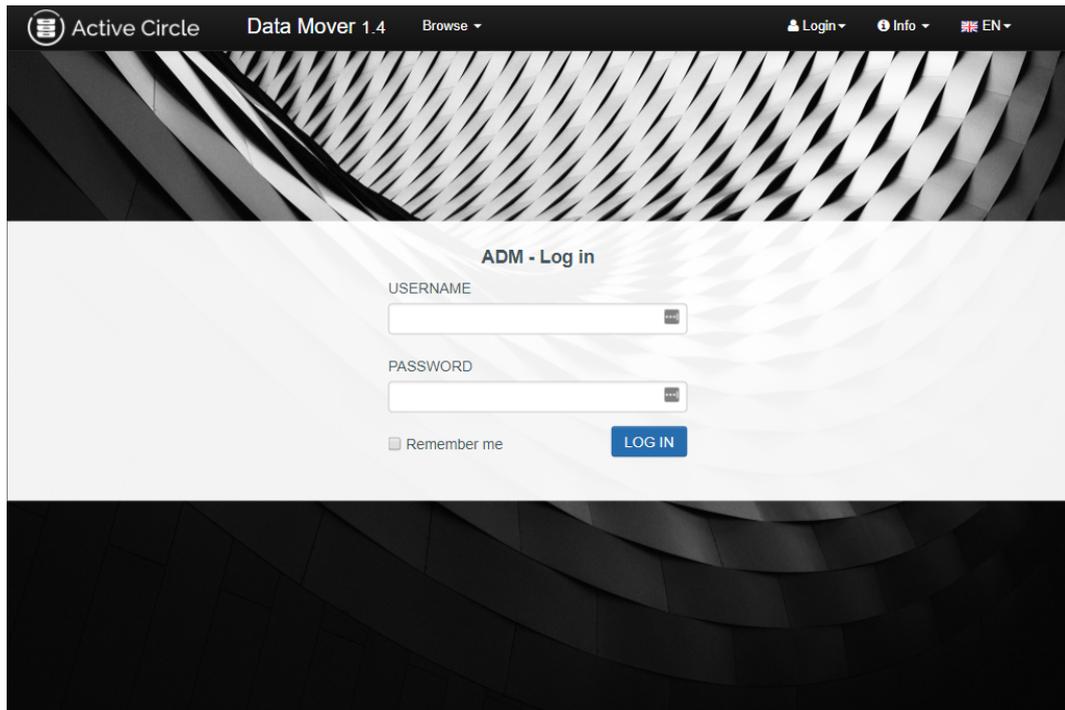
Credentials

Verify the default credentials (default: admin/1234) and the web application access with the following:

`http://admservername:8081/datamover`

After login, the next step should appear as follows:

Figure 2. The AMC Configuration Page

Configure connection between ADM and AMC

Verify and configure connection between the Active Data Mover and the Active Media Connector:

Label	Name of this connection
URL	Adapt the default url: `http://localhost:8081/acapi/1.0/`
Authentication	AMC default authentication is admin/1234
Version	You must check connection and credentials with AMC
AMC Identifier	Nom qui permettra de filtrer les jobs si différent AMC configuré

After this, you can configure Active Data Mover to your needs. Consult the ADM user guide for more information.

Customization

The Active Data Mover installer configures the different configuration files by default. However, if needed you can customize your installation.

Server Configuration

Define the **Connector port** to access the ADM web application. The values are highlighted with bold italic type below.

Excerpt of `/etc/tomcat/server.xml`:

```
 <?xml version='1.0' encoding='utf-8'?>
[...]
<Connector port="8081" protocol="HTTP/1.1" URIEncoding="UTF-8"
connectionTimeout="20000"
redirectPort="8443" />
[...]
```

To apply these changes, restart the tomcat service:

- CentOS 6: `service tomcat restart`
- CentOS 7: `systemctl restart tomcat`

You can verify the access port at the following URL address:

`http://apiservername:8081/datamover`

Web Application Configuration

Define the **user** to access the ADM web application. The values are highlighted in bold italic type below.

Contents of `/etc/ac/datamover-config.groovy`

```
acapi {
    login = 'admin'
    password = '1234'
```

The user **admin** can be replaced by any user. This is completely independent of the other solution access.

To apply these changes, restart the tomcat service:

- CentOS 6: `service tomcat restart`
- CentOS 7: `systemctl restart tomcat`

You can verify credentials at the following URL address:

`http://admservername:8081/datamover`

For more information

For information on how to use the Active Data Mover, please see the Administration Guide PDF or the online documentation provided with the software and available on the ADM web application.

For additional information, contact your Active Circle representative or send an e-mail to `customer-support@active-circle.com`.

> **Active Circle S.A.**
> 26, rue du Faubourg Poissonnière
> 75010 Paris
> FRANCE
> Tel: +33 1 34 65 90 29
> www.active-circle.com