

Active Media Connector Installation Guide

Active Circle Storage System

Active Circle REST API

Version 4.6

Abstract

This document describes the prerequisites and installation procedures for the Active Media Connector.

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Prerequisites

The Active Media Connector (AMC) or Active Circle API is a web application running in a Java application server. It requires the installation of a database. The table belows lists the software necessary for running the AMC on a new system.

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



Important

The server where the AMC web application will be installed must have internet access.



Tip

The AMC can GET and PUT data to and from FTP servers. The MLSD (Machine LiSt Directory) command needs to be available for listing directory contents on FTP servers.



Note

The CentOS Linux 6.X operating system is supported only for existing system.

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

If the AMC is installed on:

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

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

```
/downloads/Binaries/AMC
```

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

```
amc-version.bin
```

Make executable the binary installation file:

```
chmod +x amc-4.6.0.bin
```

Installation

The installation of the AMC consists of two parts:

1. Installing the AMC web application (server)
2. Installing the plugin on Active Circle Node (client)

Web Application

The AMC web application can be installed in dedicated server or on one of the Active Circle node. Check your internet connexion and install the Active Media Connector web application, by running the installation executable with the `-w` option:

```
./amc-4.6.0.bin -w
```

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

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

```
[...]
Install webapp
Extract current AMC
Copy config file under /etc/ac/acapi-config.groovy
Copy tools...
Restart tomcat
done [ OK ]
```

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



Tip

For manual installation, it is possible to extract the contents of the executable without installation, by using the `-x` option.

Plugin

The AMC plugin must be installed at least on one of the Active Circle node. To install the AMC plugin, internet connexion is not required, copy the installation executable to the node and run it with the `-p` option:

```
./amc-4.6.0.bin -p
```

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

This will verify that the Active Circle software is installed on the system and install the plugin and its configuration file.

For the AMC plugin to function correctly, it needs the hostname or IP address of the AMC web application. To configure automatically, the installer will ask you to provide this information.

If the AMC web application and plugin are installed on the same server, leave the field empty to use the default value: **localhost**.

```
Enter API server name (or IP address). Leave empty for 'localhost'
```

The installation will then proceed automatically.

```
[...]  
Install plugin and force loading  
AcapiPlugin.groovy  
done success
```



Note

The AMC plugin installation must be repeated on all the Active Circle nodes used by the AMC web application.

Upgrading the software

It 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 Media Connector is installed you must check the configuration.

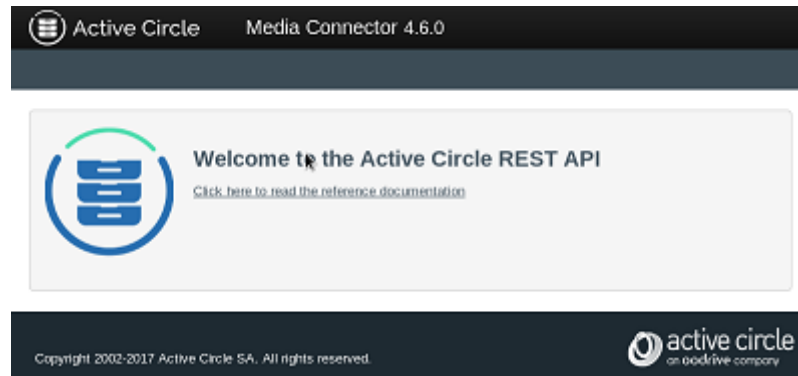
Access Port

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

`http://apiservername:8081/acapi`

The AMC home page should appear as follows:

Figure 1. The AMC Home Page



Credentials

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

`http://apiservername:8081/acapi/1.0/file`

Active Circle shares should appear as follows:

```
{
  "self": "http://10.10.50.161:8081/acapi/1.0/file",
  "share": "",
  "path": "",
  "creationDate": "",
  "modificationDate": "",
  "type": "directory",
  "files": [
    "data/",
    "users/"
  ]
}
```

Nodes

Verify that nodes are registered in the AMC with the following URL address:

`http://apiservername:8081/acapi/1.0/node`

The nodes should be appear as follows:

```
{
  "self": "http://10.10.50.161:8081/acapi/1.0/node",
  "max": 100,
  "offset": 0,
  "sort": "id",
  "order": "asc",
  "count": 2,
  "size": 2,
  "nodes": [
    {
      "name": "node01",
      "description": "",
      "lastStartingTime": 1511445528493,
      "nodeVersion": "4.6.0_0",
      "hasTapeDrive": true,
      "path": "node01/Local",
      "ipAddresses": [
        "10.10.50.161"
      ],
      "httpPort": 80,
      "ftpPort": 21,
      "url": "http://10.10.50.161:8081/acapi/1.0/node/node01"
    },
    {
      "name": "node02",
      "description": "",
      "lastStartingTime": 1511446219149,
      "nodeVersion": "4.6.0_0",
      "hasTapeDrive": false,
      "path": "node02/Local",
      "ipAddresses": [
        "10.10.50.162"
      ],
      "httpPort": 80,
      "ftpPort": 21,
      "url": "http://10.10.50.162:8081/acapi/1.0/node/node02"
    }
  ]
}
```

Customisation

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

- [Web Application](#)
- [Plugin](#)

Web Application

Server Configuration

Define the **Connector port** to access the AMC 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/acapi`

Web Application Configuration

Define the **user** for access the Active Circle and AMC web application. The values are highlighted with bold italic type below.

Excerpt of `/etc/ac/acapi-config.groovy`

```
[...]
acapi {

    users {

        // Defines the users. The syntax is
        // userLogin {
        //     password = "passwordValue"
        // }
        admin { password = "1234" }

        // MUST match the user defined in the node plugin
        // DO NOT EDIT
        ac_internal_user { password = "i[/Y9YnssbD8N[dlzw7" }
    }

    // The Active Circle user used for ftp transfer
    // must be an user defined in "users" and in Active Circle
    // with the same login and password
    roles { activeCircleFtpUser = 'admin' }
```



```
[...]
```

The user **admin** can be replaced by any other user. The user must have access to the Active Circle shares and have an administrator profile.

To apply these changes, restart the tomcat service:

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

You can verify credentials and access to shares at the following URL address:

http://apiservername:8081/acapi/1.0/file

Active Circle shares should be shown.

Plugin Configuration

Define the **hostname** and **port** to access the AMC web application. The values are highlighted with bold italic type below.

Excerpt of /activecircle/cell/plugins/AcapiPlugin.conf

```
[...]  
url = 'http://apiservername:8081/acapi/1.0/'  
[...]
```

After the configuration file has been edited, force the plugin to reload by issuing the following command:

touch /activecircle/cell/plugins/AcapiPlugin.groovy

Verify that the node, where you just performed this procedures is registered in the AMC at the following URL address:

http://apiservername:8081/acapi/1.0/node

The node should be shown.

Repeat the plugin configuration on the remaining Active Circle nodes where the AMC plugin has been installed.

For more information

You can also find this information, on the API server homepage after installation (<http://apiservername:port/acapi/>).

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