# Setting up AD Authentication in CloudPlatform

This document details the steps necessary to setup Active Directory authentication within CloudPlatform.

## Preparation

It is assumed that you have installed Microsoft Active Directory and have setup an OU within AD to house the users you want to authenticate into CloudPlatform via AD.

## Set the AD Config via CloudPlatform API

Run the following API command - with your own AD server information and account details for your environment.

http://192.168.21.76:8096/client/api?command=ldapConfig&hostname=192.168.21.72&searchbase=OU%3DTesting%2CDC%3Dxendesktop%2CDC%3Dinternal&queryfilter=%28%26%28mail%3D%25e%29%29&binddn=CN%3DAdministrator%2CCN%3Dusers%2CDC%3Dxendesktop%2CDC%3Dinternal&bindpass=Citrix123&port=389

This is the environment I have - I wanted to use the mail attribute to identify the user accounts, you can use others which are documented within the CloudPlatform Install/Admin Guides

Hostname = IP Address of the AD controller

Searchbase = OU=Testing,DC=xendesktop,DC=internal

BindDN = CN=Administrator,CN=users,DC=xendesktop,DC=internal

BindPass = Password for the BindDN user account

Query Filter = (&(mail=%e))

Port = LDAP port – defaults to 389

Wait for a successful response and then restart cloud-management service – below is an example of the response you will receive if the API command was a success.

<?xml version="1.0" encoding="ISO-8859-1" ?>

- <ldapconfigresponse cloud-stack-version="3.0.5.20120904142539">

- <ldapconfig>

<hostname>192.168.21.72</hostname>

<port>389</port>

<port>false</port>

<searchbase>OU=Testing,DC=xendesktop,DC=internal</searchbase>

<queryfilter>(&(mail=%e))</queryfilter>

<binddn>CN=Administrator,CN=users,DC=xendesktop,DC=internal</binddn>

</ldapconfig>

</ldapconfigresponse>

## Amend SharedFunctions and Components.xml Config

Next edit the sharedFunctions.js file – found in /usr/share/cloud/management/webapps/client/scripts so the md5HashedLogin = false

Example -

// Default password is MD5 hashed. Set the following variable to false to disable this.

var md5Hashed = true;

var md5HashedLogin = false;

Next edit the /etc/cloud/management/components.xml and change

<adapter name="MD5" class="com.cloud.server.auth.MD5UserAuthenticator"/>

To

<adapter name="MD5" class="com.cloud.server.auth.PlainTextUserAuthenticator"/>

Restart cloud-management

Finally make sure that the user accounts within CloudPlatform have email addresses which match the mail attributes in active directory.