

# Installation

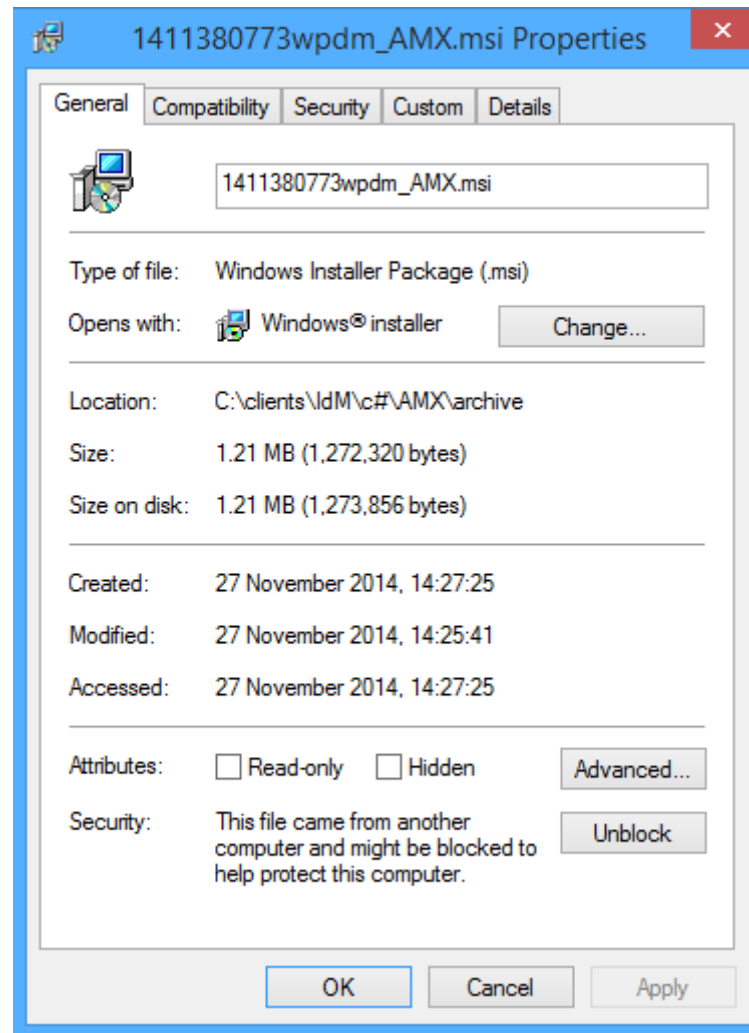
---

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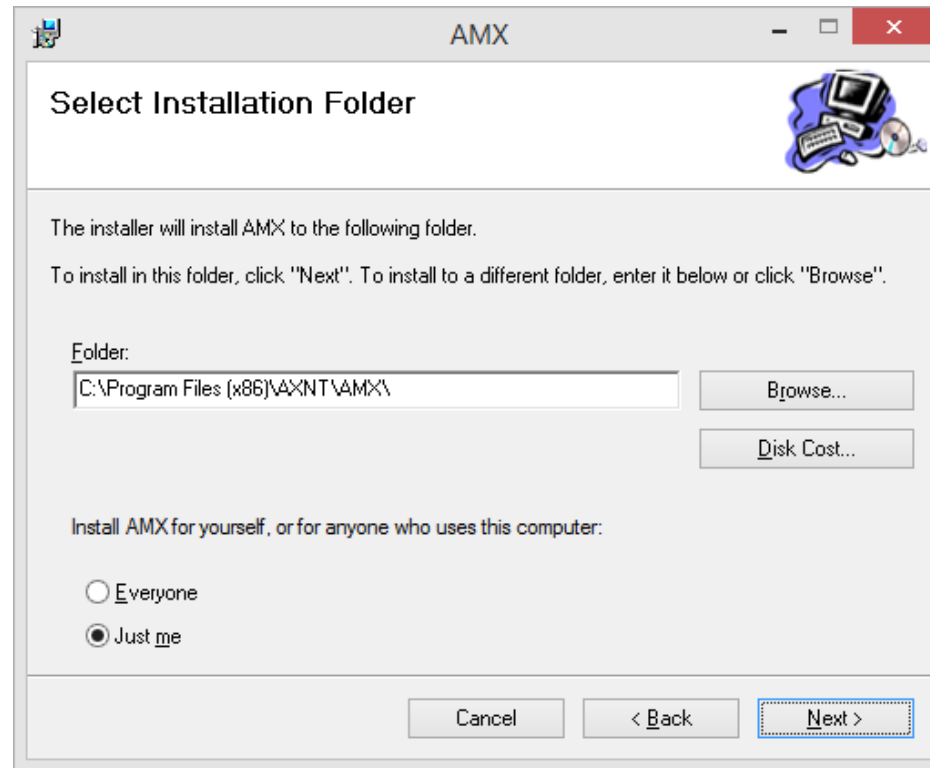
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## Installation

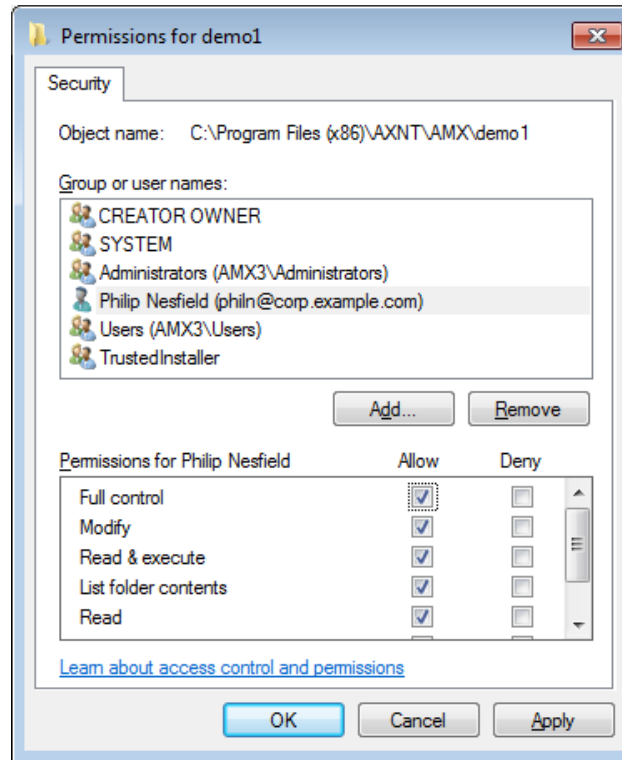
Download the installation file and run setup. To install and run AMX you must be administrator on the system. Windows security may also block this from installing after it has been downloaded. Open the msi file properties and unblock it on the General tab.



Installation should then continue normally.

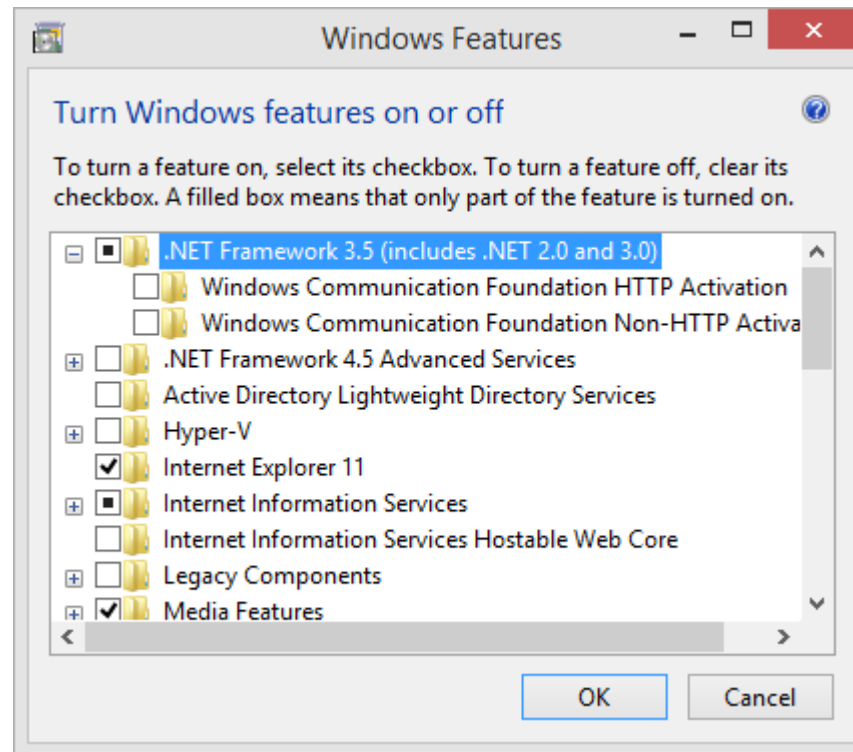


Installing AMX in the \ProgramFiles directory is not recommended. AMX generates data files and most users will not have write permissions to Program Files. If Program Files is used as the installation folder, change the permissions of the AMX working folders so that the current user has full control.



Installation creates two new applications AMXUser and AMXRun.

## ***Install .Net***

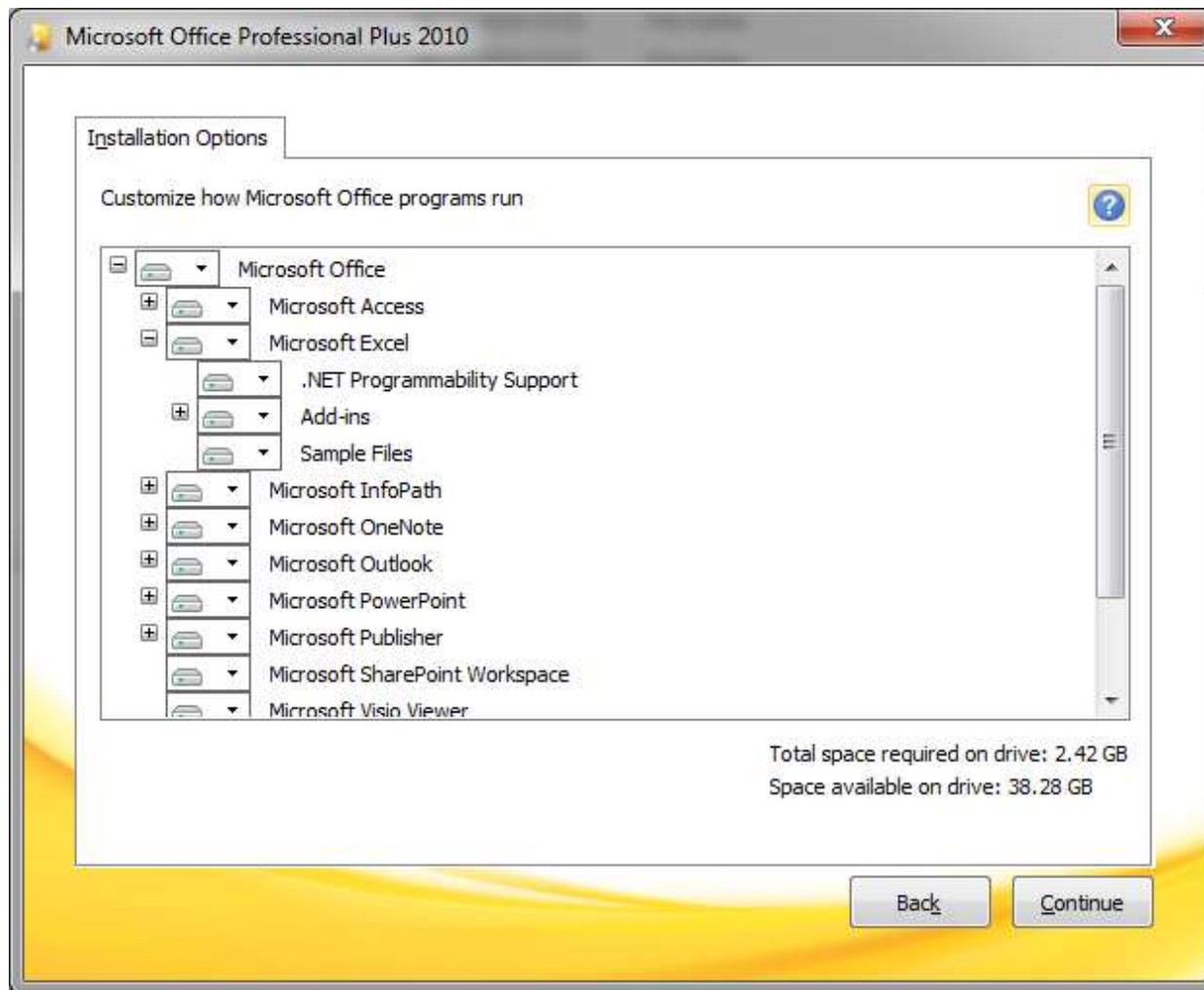


## ***Interop Excel Library***

To run the Excel adapter the Microsoft Office Interop Assemblies must be available.

The Assemblies are installed by default by Microsoft Office 2013.

Alternatively install NET Programmability Support for the Microsoft.interop.Excel library from the Microsoft Office distribution media.



Office Tools and Shared Libraries are not required. This example will install the interop dlls.

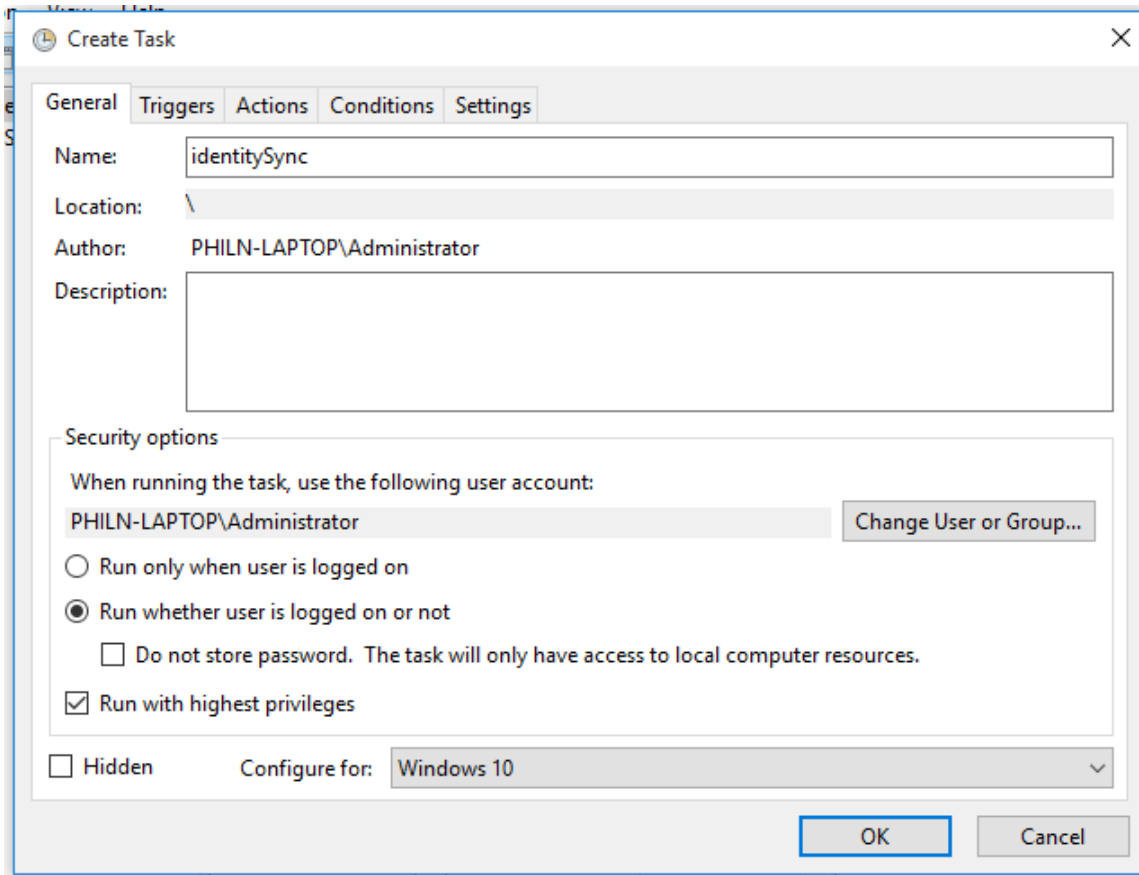
## **Service Accounts**

Service accounts are needed to connect to remote systems. If the service account in a resource's property file is blank, the connection to a local Windows system or an Active Directory is made with the account that is currently running the process. To allow updates, service accounts must have the appropriate privileges, ie Account Operator.

## **Task Scheduler**

Schedule identitySync to run at an appropriate time. Configure the identitySync.properties file to send email to an administrator with details of the results of the synchronisation.

Set up to run whether the user is logged in or not and store the password.



Set the start directory to the locations of the AMX properties and schema files



**Edit Action** [X]

You must specify what action this task will perform.

Action: Start a program [v]

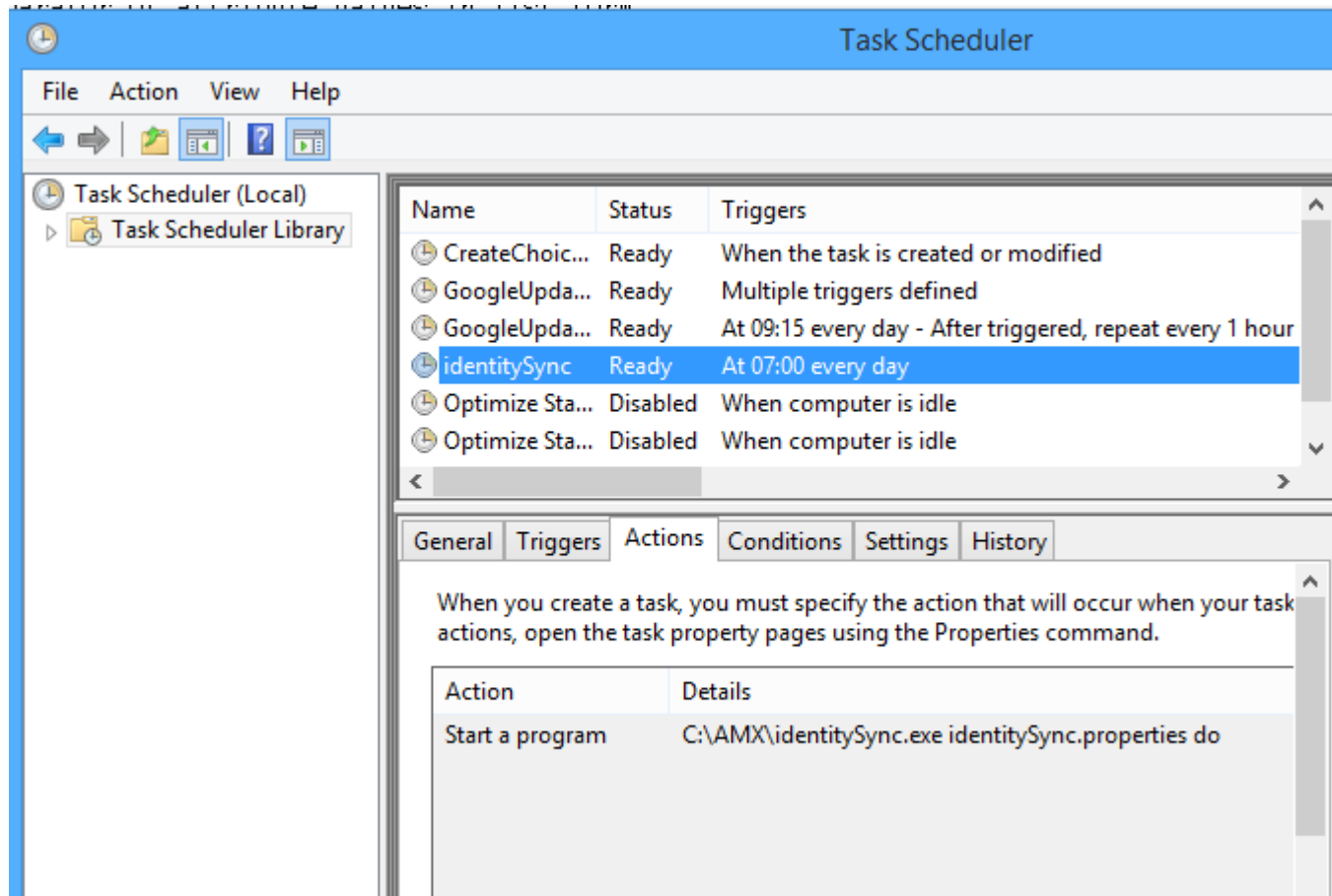
Settings

Program/script:  
C:\AMX\identitySync.exe [Browse...]

Add arguments (optional):  
identitySync.properties

Start in (optional):  
C:\AMX\work

OK Cancel



Test it by using the RUN action. It should create a new info file, and send email if configured. Use REFRESH to get an update of the status

## Active Directory

Windows Server 2008 and Windows Vista introduced [User Account Control](#), which has issues for applications that use [Active Directory Service Interfaces](#) (ADSI) such as AMX. Specifically, these interfaces were designed to be run by a user account with administrator privileges on the local computer.

Use Run As Administrator when managing the Active Directory. AMX will provide a warning when not running as an administrator and in some circumstances may fail.

The Active Directory object schema is cached and this may cause performance issues if many different accounts are used to run AMX. See [http://msdn.microsoft.com/en-us/library/windows/desktop/aa772187\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/aa772187(v=vs.85).aspx).

## Exchange

The adapter works with Exchange 2010 or later. The Exchange server certificate must be trusted by the computer running AMX. If both systems are members of the same domain this is a non-issue. Otherwise, using IIS Manager, save the certificate to a file and import it to the local computer Trusted Root Certificate Authorities.

The Exchange instance must have the Client Access Role. IIS Manager shows a /PowerShell virtual directory.

## MySQL

Uses GPL licence

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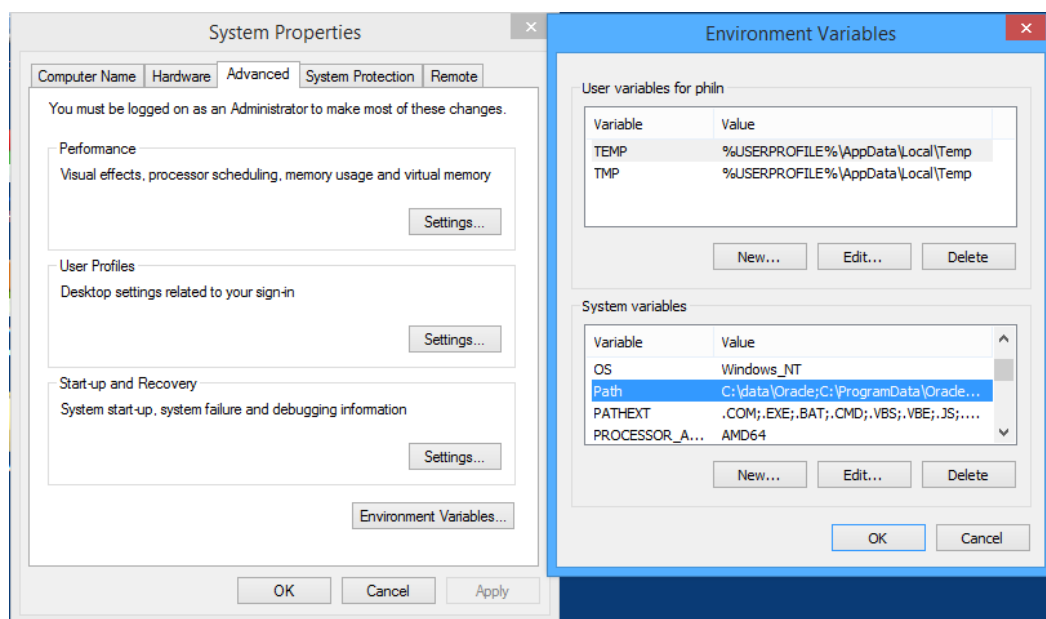
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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

<http://www.gnu.org/licenses/old-licenses/gpl-2.0.html>

## Oracle

Requires Oracle client software version 8.1.7 or greater.



The Oracle adapter can load last logon if this has been configured. To do this:

1. Turn on Auditing

```
SQL > AUDIT SESSION;
```

This audits to an internal table

```
SQL> ALTER SYSTEM SET AUDIT_TRAIL=DB SCOPE=SPFILE;
```

```
SQL> show parameter audit
```

| NAME                 | TYPE    | VALUE  |
|----------------------|---------|--|
| audit_file_dest      | string  | /export/oracle/oracle/product/<br>10.2.0/db_1/admin/XE/adump |
| audit_sys_operations | boolean | FALSE  |
| audit_syslog_level   | string  |  |
| audit_trail          | string  | NONE   |

```
SQL>
```

## 2. Restart

```
SQL> shutdown immediate;
```

Database closed.

Database dismounted.

ORACLE instance shut down.

```
SQL> CONNECT system/manager AS SYSDBA
```

Connected to an idle instance.

```
SQL> startup
```

ORACLE instance started.

```
Total System Global Area 167772160 bytes
Fixed Size                 1279120 bytes
Variable Size              104860528 bytes
Database Buffers          58720256 bytes
Redo Buffers               2912256 bytes
Database mounted.
Database opened.
```

### 3. Check

```
SQL> show parameter audit
```

| NAME                 | TYPE    | VALUE  |
|----------------------|---------|--|
| audit_file_dest      | string  | /export/oracle/oracle/product/<br>10.2.0/db_1/admin/XE/adump |
| audit_sys_operations | boolean | FALSE  |
| audit_syslog_level   | string  |  |
| audit_trail          | string  | DB   |

```
SQL>select userID, ntimestamp# from sys.aud$ a where (a.userID,a.ntsimeStamp#) in (select  
b.userID,max(b.ntsimeStamp#) from sys.aud$ b group by b.userID)
```

| USERID | NTIMESTAMP#                |
|--------|----------------------------|
| SYSTEM | 2011-04-15 20:14:04.608247 |
| PHILN  | 2011-04-15 16:50:13.334463 |
| GLANG  | 2011-04-15 20:16:13.232371 |

## Pointsec

If Pointsec is installed add this registry entry:

```
Windows Registry Editor Version 5.00
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Pointsec Mobile Tech\Pointsec for PC]
```

```
"UsersLocation"="C:\\ProgramData\\Pointsec\\Pointsec for PC\\"
```

```
"Location"="C:\\Program Files (x86)\\Pointsec\\Pointsec for PC\\"
```

## Unix

Uses Tamir.SharpSSL which is redistributed under the following licence

JSch 0.0.\* was released under the GNU LGPL license. Later, we have switched over to a BSD-style license.

-----  
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## Windows 2008

Windows 2008 Server x64

Make this folder:

C:\Windows\SysWOW64\config\systemprofile\Desktop

On Windows 2008 Server x86

Make this folder:

C:\Windows\System32\config\systemprofile\Desktop



Failure to do this will create an Excel file open error when the application is run in Task Scheduler as a job run when the user is logged on or not. See Task Scheduler. Debug will show this error as:

```
Excel load opening C:\data\personData.xls no password
```

```
Error: Excel load Exception Microsoft Excel cannot access the file ' C:\data\personData.xls '. There are several possible reasons:
```

- The file name or path does not exist.
  - The file is being used by another program.
  - The workbook you are trying to save has the same name as a currently open workbook. 0  
at Microsoft.Office.Interop.Excel.Workbooks.Open(String Filename, Object UpdateLinks, Object ReadOnly, Object Format, Object Password, Object WriteResPassword, Object IgnoreReadOnlyRecommended, Object Origin, Object Delimiter, Object Editable, Object Notify, Object Converter, Object AddToMru, Object Local, Object CorruptLoad)  
at AMX.Excel.load(String sResourceName, String strPathExcel, String strPasswdFile, String sSchemaFile, DataTable dt) in C:\clients\IdM\C#\AMX\Excel.cs:line 354
- ```
Error: Excel Exception of type 'AMX.Excel+CustomException' was thrown.  
AMX.Excel+CustomException: Exception of type 'AMX.Excel+CustomException' was thrown.  
at AMX.Excel.load(String sResourceName, String strPathExcel, String strPasswdFile, String sSchemaFile, DataTable dt) in C:\clients\IdM\C#\AMX\Excel.cs:line 422  
at AMX.identitySync.Main(String[] args) in C:\clients\IdM\C#\identitySync\identitySync.cs:line 121
```

Test this with Run when user is logged in where even without the folder the task will run successfully.

Use the UNC of the location in the properties file

```
ExcelFile1 = \\emea\uk\internal\Departmental directories\Admin\Employee Data\Contractors.xls
```

## Winlocal

Error: Windows Local Load Unknown error (0x80005000) for 192.168.121.53

Error: Winlocal Exception of type 'AMX.WinLocal+CustomException' was thrown.

Caused by bad username or password

Firewall issues, see <http://msdn.microsoft.com/en-us/library/aa389286.aspx>

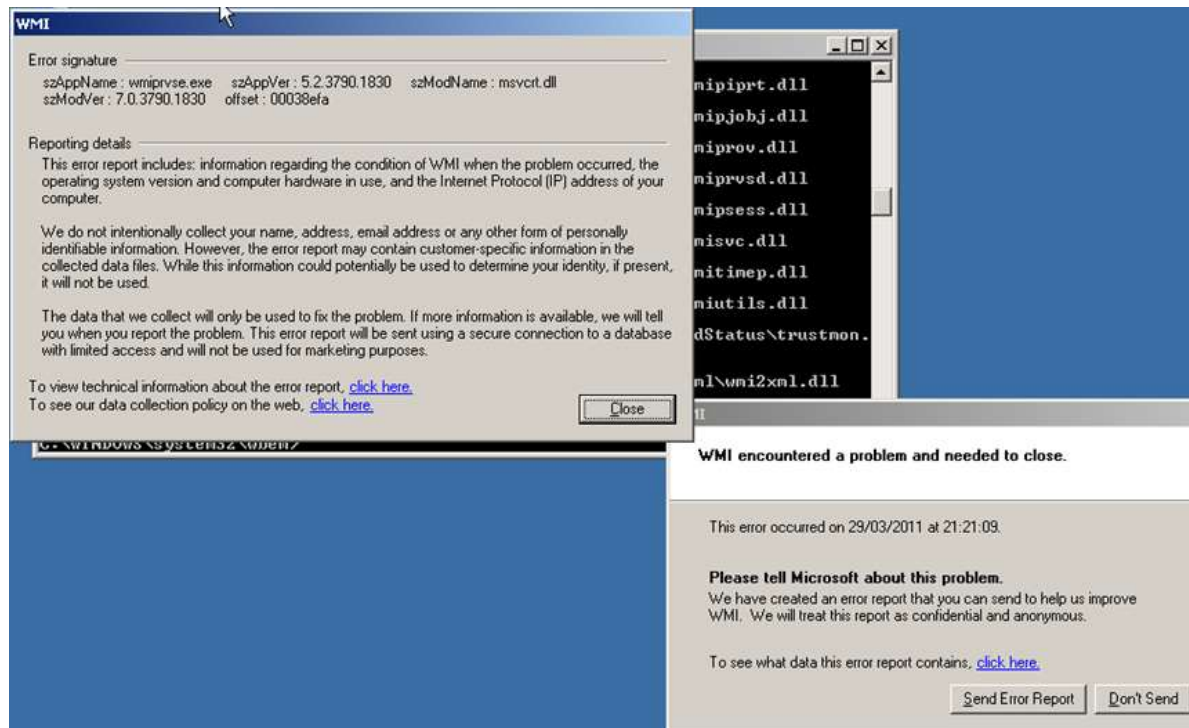
Windows Local System 1 dexch Error: WinLocal.RemoteService The RPC server is unavailable. (Exception from HRESULT: 0x800706BA) for dexch

Error: Winlocal Exception of type 'AMX.WinLocal+CustomException' was thrown.

Caused by wrong hostname

## WMI

Systems with corrupted WMI may show the following problem :



This is described in <http://support.microsoft.com/kb/932460>

The fix is to run FixWMI.bat

```
net stop winmgmt
pause
c:
cd c:\windows\system32\wbem
rd /S /Q repository
```

```
regsvr32 /s %systemroot%\system32\scecli.dll
regsvr32 /s %systemroot%\system32\userenv.dll
mofcomp cimwin32.mof
mofcomp cimwin32.mfl
mofcomp rsop.mof
mofcomp rsop.mfl
for /f %%s in ('dir /b /s *.dll') do regsvr32 /s %%s
for /f %%s in ('dir /b *.mof') do mofcomp %%s
for /f %%s in ('dir /b *.mfl') do mofcomp %%s
mofcomp exwmi.mof
mofcomp -n:root\cimv2\applications\exchange wbemcons.mof
mofcomp -n:root\cimv2\applications\exchange smtpcons.mof
mofcomp exmgmt.mof
```

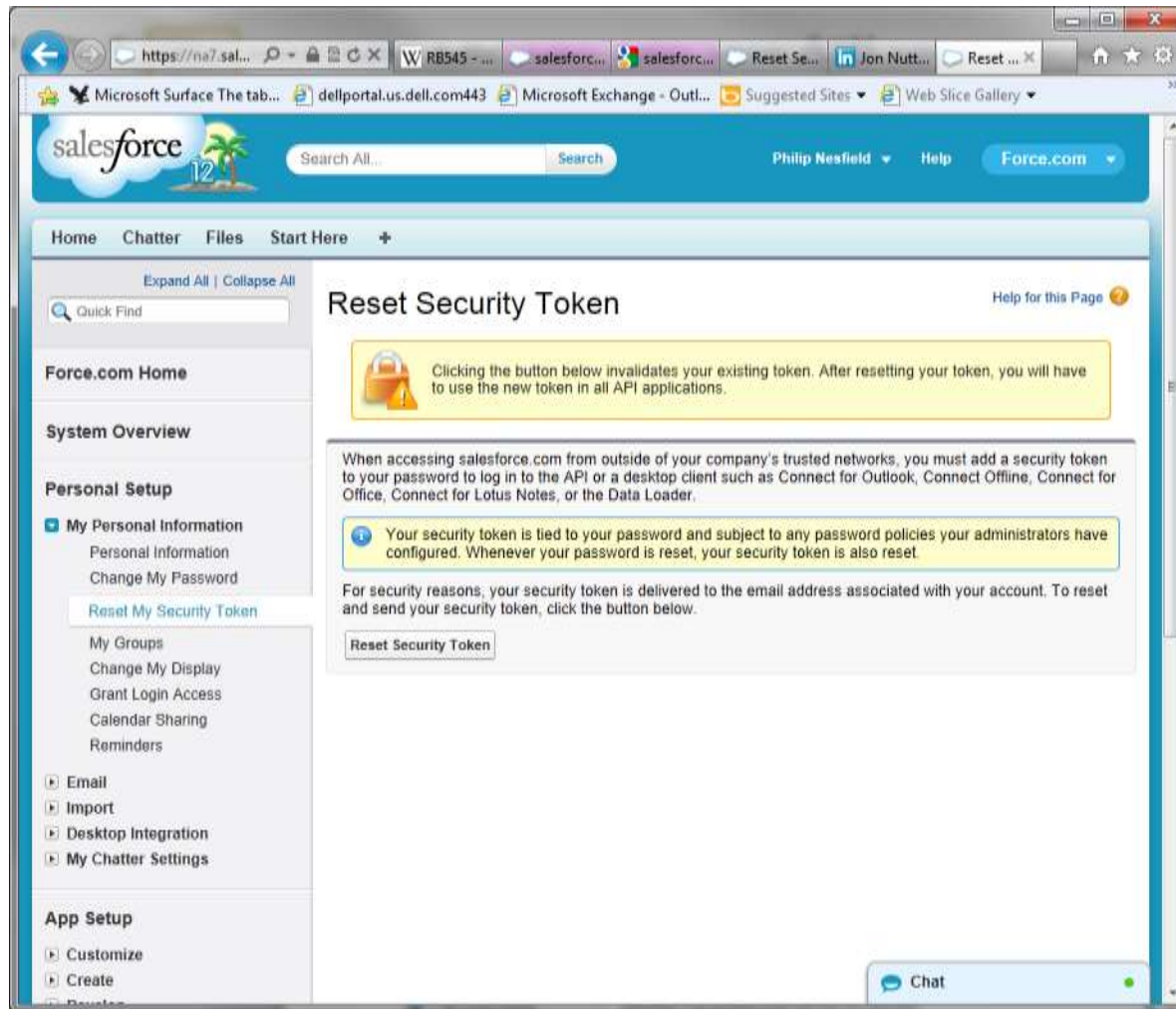
## SalesForce

### Rebuild SForceService.dll

The SForceService.dll may need to be re-created if you have modified attributes that you want to manage, in which case download the Enterprise wsdl for your organisation. [https://help.salesforce.com/apex/HTViewSolution?id=000004760&language=en\\_US](https://help.salesforce.com/apex/HTViewSolution?id=000004760&language=en_US)

Follow the instructions here to get the wsdl and generate the SForceService.dll. [https://developer.salesforce.com/docs/atlas.en-us.api\\_meta.meta/api\\_meta/meta\\_quickstart\\_get\\_WSDLs.htm](https://developer.salesforce.com/docs/atlas.en-us.api_meta.meta/api_meta/meta_quickstart_get_WSDLs.htm)

## Generate or Reset the Security Token



An email will be sent containing the token. This must be appended to the password in the AMX Password file for Salesforce. The security token is not required when logging in to the web application.

## Setting Up OAuth 2.0

Setting up OAuth 2.0 requires that you take some steps within Salesforce and in other locations. If any of the steps are unfamiliar, see [Understanding Authentication](#) or the Salesforce online help. The following example uses the Web server OAuth flow.

In Salesforce, from Setup, enter Apps in the Quick Find box, then select Apps, and under Connected Apps click New to create a new connected app if you have not already done so. The Callback URL you supply here is the same as your Web application's callback URL. Usually it is a servlet if you work with Java. It must be secure: `http://` does not work, only `https://`.

For development environments, the callback URL is similar to `https://localhost:8443/RestTest/oauth/_callback`.

When you click Save, the Consumer Key is created and displayed, and a Consumer Secret is created (click the link to reveal it).

- Quick Find / Search...
- [Expand All](#) | [Collapse All](#)
- Lightning Experience **New!**
  - Salesforce1 Quick Start
  - Force.com Home
  - System Overview
  - Personal Setup
    - My Personal Information
    - Email
    - Import
    - Desktop Integration
    - My Chatter Settings
    - My Social Accounts and Contacts
    - My Connected Data
  - App Setup
    - Customize
    - Create
  - Apps
  - Custom Labels

Connected App Name  
**AMX**

[Help for this Page](#)

[« Back to List: Custom Apps](#)

[Edit](#) [Delete](#) [Manage](#)

Allow from 2-10 minutes for your changes to take effect on the server before using the connected app.



|                    |                                     |
|--------------------|-------------------------------------|
| Version            | 1.0                                 |
| API Name           | AMX                                 |
| Created Date       | 08/11/2015 19:24                    |
|                    | By: <a href="#">Philip Nesfield</a> |
| Contact Email      | philip@nesfield.org                 |
| Contact Phone      |                                     |
| Last Modified Date | 08/11/2015 19:30                    |
|                    | By: <a href="#">Philip Nesfield</a> |
| Description        |                                     |
| Info URL           |                                     |

▼ API (Enable OAuth Settings)

|                       |                                                                                       |                 |                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------|
| Consumer Key          | 3MVG9y6x0357HlefCLE.oECm1_OmkTPARXRJHSTJ_JW5QCnzWMof5udnaDJCLmK91JL7TPxJH0bPWT1eJuWaC | Consumer Secret | <a href="#">6984467848525636553</a>                                                                           |
| Selected OAuth Scopes | Full access (full)                                                                    | Callback URL    | <a href="https://localhost:8443/RestTest/oauth/_callback">https://localhost:8443/RestTest/oauth/_callback</a> |

▼ Custom Connected App Handler

|                   |  |
|-------------------|--|
| Apex Plugin Class |  |
| Run As            |  |

## System Overview

### Personal Setup

- ▶ My Personal Information
- ▶ Email
- ▶ Import
- ▶ Desktop Integration
- ▶ My Chatter Settings
- ▶ My Social Accounts and Contacts
- ▶ My Connected Data

### App Setup

- ▶ Customize
- ▶ Create
- ▶ Develop
- ▶ Deploy
- ▶ Schema Builder

### System Info

|                  |                                 |                    |                  |
|------------------|---------------------------------|--------------------|------------------|
| Installed By     | <a href="#">Philip Nesfield</a> | Installed Date     | 08/11/2015 19:24 |
| Last Modified By | <a href="#">Philip Nesfield</a> | Last Modified Date | 08/11/2015 21:40 |

### Basic Information

|          |                  |
|----------|------------------|
| Info URL | Start URL        |
|          | Mobile Start URL |

### OAuth policies

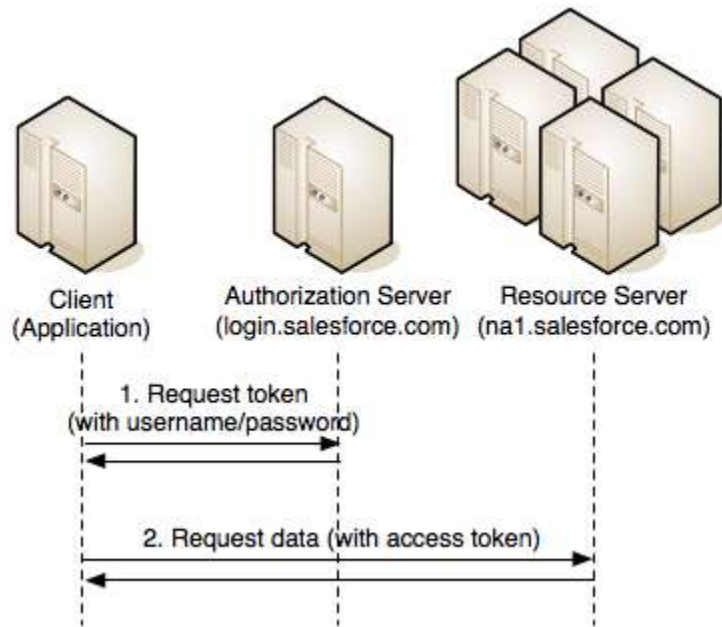
|                                     |                                  |                       |                                          |
|-------------------------------------|----------------------------------|-----------------------|------------------------------------------|
| Permitted Users                     | All users may self-authorize     | IP Relaxation         | Relax IP restrictions with second factor |
| Usage                               | <a href="#">View OAuth Usage</a> | Refresh Token Policy: | Immediately expire refresh token         |
| This application has permission to: | Full access                      |                       |                                          |

### Session Policies

Timeout Value



## Obtaining a Token in an Autonomous Client (Username and Password Flow)



An autonomous client can obtain an access token by simply providing username, password and (depending on configuration) security token in an access token request. Again the request is POSTed (1) to <https://login.salesforce.com/services/oauth2/token>, but the payload now has the form

```
grant_type=password&client_id=<your_client_id>&client_secret=<your_client_secret>&username=<your_username>&password=<your_password>
```

The following parameters are required:

`grant_type` Set this to `password`.

`client_id` Your application's client identifier.

`client_secret` Your application's client secret.

`username` The API user's Salesforce.com username, of the form `user@example.com`.

**password** The API user's Salesforce.com password. If the client's IP address has not been whitelisted in your org, you must concatenate the security token with the password.

You will receive a similar response to the authorization code case:

```
1 {
2   "id": "https://login.salesforce.com/id/00D50000000IZ3ZEAW/00550000001fg5OAAQ",
3   "issued_at": "1296509381665",
4   "instance_url": "https://na1.salesforce.com",
5   "signature": "+Nb15EO1/DlsvUZ4NbGDno6vn935XsWGVbwoKyXHayo=",
6   "access_token": "00D50000000IZ3Z!AQgAQH0Yd9M51BU_rayzAdmZ6NmT3pXZBgzkc3JTwDOGB18BP2AREOizZL_A2zg7etH81kTuuQP1jJ
VsX4CPt3naL7qustlb"
7 }
```

You will notice that there is no refresh token in the response. Since the user is not redirected to login at Salesforce, there is no opportunity for the user to authorize the application. Such an authorization is required for a refresh token to be issued. If your application requires a refresh token, you should carefully consider moving to a different flow if at all possible.

[https://developer.salesforce.com/page/Digging\\_Deeper\\_into\\_OAuth\\_2.0\\_on\\_Force.com#Obtaining\\_a\\_Token\\_in\\_an\\_Autonomous\\_Client\\_.28Username\\_and\\_Password\\_Flow.29](https://developer.salesforce.com/page/Digging_Deeper_into_OAuth_2.0_on_Force.com#Obtaining_a_Token_in_an_Autonomous_Client_.28Username_and_Password_Flow.29)

Testing with curl

Testing with Chrome curl plugin

Advanced Rest Client

JSON SalesForce1 Save Open

Request

Socket

Projects **JSON**

Saved

History

Settings

About

Rate this application ▾

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**Query parameters** [Add](#)

|               |                                                                                       |   |     |     |
|---------------|---------------------------------------------------------------------------------------|---|-----|-----|
| grant_type    | password                                                                              | x | enc | dec |
| client_id     | 3MVG9y6x0357HlefCLE.oECm1_OmkTPARXRJHSTj_JW5QCnzWMof5udnaDJCLmK91JL7TPxJH0bPWT1eJuWaC | x | enc | dec |
| client_secret | 6984467848525636553                                                                   | x | enc | dec |
| username      | admin@test.com                                                                        | x | enc | dec |
| password      | mypasswordBbtpHZVKSMsXSLTZm2TeS9wh                                                    | x | enc | dec |

HASH

GET
  POST
  PUT
  PATCH
  DELETE
  HEAD
  OPTIONS
  Other

Must be a POST, PUT gives error

```
{"error": "invalid_request", "error_description": "must use HTTP POST"}
```

Adding parameters as a Payload or Headers

```
{"error": "unsupported_grant_type", "error_description": "grant type not supported"}
```

application/x-www-form-urlencoded | Set Content-Type header to overwrite this value. Clear Send

**Status** 200 OK Loading time: 803 ms

**Request headers**

- User-Agent: Mozilla/5.0 (Windows NT 6.3; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/46.0.2490.80 Safari/537.36
- Origin: chrome-extension://hgmloofddfnphfccllkdftbfjeloo
- Content-Type: application/x-www-form-urlencoded
- Accept: \*/\*
- Accept-Encoding: gzip, deflate
- Accept-Language: en-GB,en-US;q=0.8,en;q=0.6
- Cookie: BrowserId=FdEgXw9aR7GWpXPEC3zdHA; \_\_cfduid=d6728ae6d8eb131b7b4a5efa3166db6b81447079657; rememberUn=true; login=philip@nesfield.org; com.salesforce.LocaleInfo=uk; oinfo=disco=E:00DE000000a9ZU:005E000000f3Zl:0; autocomplete=1; inst=APPE; webact=%7B%22L\_vdays%22%3A-1%2C%22L\_visit%22%3A0%2C%22session%22%3A1447184592871%2C%22L\_search%22%3A%22%22%2C%22L\_dtype%22%3A%22%22%2C%22L\_page%22%3A%22HELP%3Aus%3Aunauth%3As\_vi=[CS]v1|2B212469053112C6-40000108C0000115[CE]

**Response headers**

- Date: Tue, 10 Nov 2015 20:14:38 GMT
- Pragma: no-cache
- Cache-Control: no-cache, no-store
- Content-Type: application/json;charset=UTF-8
- Content-Encoding: gzip
- Transfer-Encoding: chunked

**Raw** **JSON** **Response**

[Copy to clipboard](#) [Save as file](#)

```
{
  "access_token": "00DE000000a9ZU!ARUAQAzN30Ei69J_xb3Hf2H5xtybdcFJ5DJ6fV68gpewyCBsdAfs06Sph0VebEDKa_26SgSu.ncMTfdUENeQtlgUcQ_gjIBQ"
  "instance_url": "https://na9.salesforce.com"
  "id": "https://login.salesforce.com/id/00DE000000a9ZUMAY/005E000000f3ZlIAI"
  "token_type": "Bearer"
  "issued_at": "1447186479405"
  "signature": "jGJ9KyHqV3zrSLLQu9ir7Mjht50Mau95TqsEm2L2c0="
}
```



# Google Apps

<https://console.developers.google.com/apis/credentials?project=axntinteractive>

Google Developers Console

API Project

API Manager

Overview

Credentials

Credentials OAuth consent screen Domain verification

Add credentials Delete

API key  
Identifies your project using a simple API key to check quota and access.  
For APIs like Google Translate.

OAuth 2.0 client ID  
Requests user consent so your app can access the user's data.  
For APIs like Google Calendar.

Service account  
Enables server-to-server, app-level authentication using robot accounts.  
For use with Google Cloud APIs.

Key

AlzaSyCqy5eS-MpibuYsrVUEzd1oDfM\_5cGHo7I

OAuth 2.0 client IDs

| <input type="checkbox"/> | Name | Creation date | Type            | Client ID                                                        |
|--------------------------|------|---------------|-----------------|------------------------------------------------------------------|
| <input type="checkbox"/> | AMX  | Nov 10, 2015  | Web application | 821468230503-sfovnptccho63p2sggchru7r7viea1rp.apps.googleusercon |

Service Account

Download key pair API Project-fad9a65e2abb.json

← Certificate Import Wizard

**Private key protection**  
To maintain security, the private key was protected with a password.

---

Type the password for the private key.

Password:

Display Password

Import options:

- Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.
- Mark this key as exportable. This will allow you to back up or transport your keys at a later time.
- Include all extended properties.

Next Cancel



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Google Developers Console



API Project ▾

**API** API Manager

Credentials



Overview



Credentials

[←](#) [Download JSON](#) [Reset secret](#) [Delete](#)

Client ID for Web application

|               |                                                                          |
|---------------|--------------------------------------------------------------------------|
| Client ID     | 821468230503-sfovnptccho63p2sggchru7r7viea1rp.apps.googleusercontent.com |
| Client secret | <a href="#">99TuZ7hRYn_NgVaFXXL5R-2t</a>                                 |
| Creation date | Nov 10, 2015, 11:28:40 PM                                                |

Name

AMX

Authorized JavaScript origins

Enter JavaScript origins here or redirect URIs below (or both) [?](#)

Cannot contain a wildcard ([http://\\*.example.com](#)) or a path ([http://example.com/subdir](#)).

[http://www.example.com](#)

Authorized redirect URIs

Must have a protocol. Cannot contain URL fragments or relative paths. Cannot be a public IP address.

[http://www.example.com/\\_callback](#) [×](#)

[http://www.example.com/oauth2callback](#)





## Concur

Base64 your Concur login and password from this format - <login>:<password> . Add this to the Authorization header as Basic <Base64'd login:password>

Get Token

Advanced Rest Client

ConcurAuth1

https://www.concursolutions.com

Request

/net2/oauth2/accesstoken.ashx

Socket

Projects

JSON

Saved

History

Settings

About

Rate this application

Donate

Query parameters [Add](#)

HASH

GET  POST  PUT  PATCH  DELETE  HEAD  OPTIONS  Other

Raw

Form

Headers

[Add new header](#)

authorization

Basic cGhpbGlwQG5lc2ZpZWxkLm9yZzpjWFvO??????=

x-consumerkey

4oOK21vXTY5oha8TCWGoRE

accept

application/json

Response headers

**status:** 200  
**cache-control:** private  
**content-length:** 238  
**content-type:** application/json; charset=utf-8  
**date:** Tue, 17 Nov 2015 17:17:46 GMT  
**set-cookie:** ADRUM\_BTa=R:0|g:f0ca8e09-f259-4388-a04a-4518904c2295; expires=Tue, 17-Nov-2015 17:18:16 GMT; path=/  
**set-cookie:** ADRUM\_BT1=R:0|j:886732|e:151; expires=Tue, 17-Nov-2015 17:18:16 GMT; path=/  
**webserver:** SEAPR1\_I035

| Raw                                                                                                                                                                                                                                    | JSON | Response |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|
| <a href="#">Copy to clipboard</a> <a href="#">Save as file</a>                                                                                                                                                                         |      |          |
| <pre>{   -Access_Token: {     Instance_Url: "https://www.concursolutions.com/"     Token: "0_vl97fuWm/o+Tsv0vorFnTxy34="     Expiration_date: "11/17/2016 5:17:46 PM"     Refresh_Token: "0_bviNiXnPEOx0j1Tmy3Zl1adnEV6VW"   } }</pre> |      |          |

Get Users

Advanced Rest Client

Request

Socket

Projects

JSON

Saved

History

Settings

About

Rate this application ♥

Donate

ConcurAuth1

https://www.concursolutions.com/api/v3.0/common/users

PATH

Query parameters [Add](#)

HASH

GET  POST  PUT  PATCH  DELETE  HEAD  OPTIONS  Other

Raw

Form

Headers

[Add new header](#)

authorization

OAuth 0\_TjTmZ89m10gX5t+bFuUSz????

accept

application/json

Status **200 OK** Loading time: 356 ms

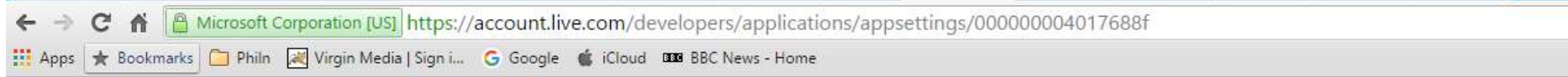
pragma: no-cache  
set-cookie: ADRUM\_BTa=R:0|g:293b3899-aad9-46ec-a737-6356589818e8; expires=Tue, 17-Nov-2015 17:40:04 GMT; path=/  
webserver: SEAPR1\_I001

Raw JSON Response

[Copy to clipboard](#) [Save as file](#)

```
{  
  -Items: [5]  
    -0: {  
      LoginID: "ConcurAdmin@d0010302cmsd"  
      EmployeeID: "Concur Administrator"  
      FirstName: "Concur"  
      LastName: "Administrator"  
      MiddleName: ""  
      PrimaryEmail: "ConcurAdmin@d0010302cmsd"  
      Active: true  
      CellPhoneNumber: ""  
      OrganizationUnit: null  
      ID: null  
      URI: null  
    }  
    -1: {  
      LoginID: "ConcurConsultant@d0010302cmsd"  
      EmployeeID: "Concur Consultant"  
      FirstName: "ConcurConsultant"  
      LastName: "ConcurConsultant"  
      MiddleName: ""  
      PrimaryEmail: "ConcurConsultant@d0010302cmsd"  
      Active: true  
      CellPhoneNumber: ""  
      OrganizationUnit: null  
    }  
  }  
}
```

# Microsoft Live



## Microsoft account Developer Center

Philip | Sign out

Home My apps Docs Downloads Support

My applications > axnt > App Settings

# axnt

### Settings

Basic Information

API Settings

App Settings

Localisation

To protect your app's security, [Windows Push Notification Services \(WNS\)](#) and services using [Microsoft account](#) use client secrets to authenticate the communications from your server.

Client ID:  
000000004017688F

This is a unique identifier for your application.

Client secret (v1):  
ApDUJQlu98n3qD01PqeeKxJPfAlrWlyW

For security purposes, don't share your client secret with anyone.

If your client secret has been compromised or your organisation requires that you periodically change client secrets, create a new client secret here. After you've created a new client secret, both the old and the new client secrets will be accepted until you activate the new secret.

[Create a new client secret](#)

**Note:** Please wait 24 hours before you activate your new client secret, because the old client secret won't work after you've activated the new one.

## Twitter

Create an app at <https://apps.twitter.com/app/new>

# axnt

[Details](#)[Settings](#)[Keys and Access Tokens](#)[Permissions](#)

## Application Settings

*Keep the "Consumer Secret" a secret. This key should never be human-readable in your application.*

Consumer Key (API Key) VOjuVWNN7T9HjxhPveKYxuSMB

Consumer Secret (API Secret) XW3MF60swJPwHSxgc516WXTpgh3fCmljFPicuhHhQ85c1Ai4qU

Access Level Read and write ([modify app permissions](#))

Owner sweatyGarden

Owner ID 2167906829

## Application Actions

[Regenerate Consumer Key and Secret](#)[Change App Permissions](#)



