

## AMX Account Management Tutorial

This tutorial is for IT staff who are experienced in identity management, it requires insight into how the Active Directory works, and a working knowledge of Windows. It should be done after the first tutorial.

This exercise will demonstrate some of the more advanced features of AMX, specifically:

- Configuring the account create email template.
- Configuring recipients for an account create.
- Configuring email.
- identitySync in Production

AMX runs on Windows and must be setup as shown in the AMX Tutorial Setup document. In this tutorial identityReport and identitySync are run from the Command Line using AMXRun which sets the environment variables.

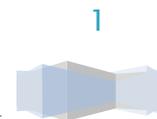
### 1. Mail properties

identitySync is designed to run automatically as a scheduled with the status being sent using email to the administrators. Email can be sent for:

- Info, a summary of the process, including any failures
- Manual, the command line updates
- Debug, a detailed report of the run, with the level of detail configurable from 1 to 5 with 5 being the most detailed.

eMail can also be sent to administrators and managers containing details of new user accounts.

This exercise shows email sent to a valid email server and onward to a recipient.



## 1. Edit ActiveDirectory2.properties

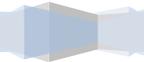
```
// Messages
CreateAccountMessageTemplate = CreateAccountMessageTemplate.txt
CreateAccountMessageSubject = %resource% Account for %displayName%
InfoSubject = Example Domain Sync info
InfoRecipients =
DebugSubject = Example Domain Debug
DebugRecipients =
ManualSubject = Example Domain Manual
ManualRecipients =
// Tutorial AD3.1 / UX1.5
//DefaultRecipients = philn@example.com;philn@axnt.co.uk
DefaultRecipients =
FromAddress = amx@example.com
// MailMode = 0 send email
// MailMode = 1 send email to default Recipients
// MailMode = 2 inhibit email
MailMode = 2
```

Update the Info, Debug and Manual recipients using a “;” to separate multiple email addresses. Manual recipients are sent the DSMOD files in 2 separate messages. Blank values for the recipients inhibit the email. As a minimum setup the InfoRecipients.

Update MailMode to 1 which will send email to default recipients.

## 2. SMTP Server

identitySync email uses .NET Mail which is SMTP with Explicit SSL which opens a connection in the clear and then sends StartTLS to begin encryption. It does not open the connection using encryption, see [Microsoft documentation](#) for full details.

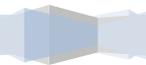


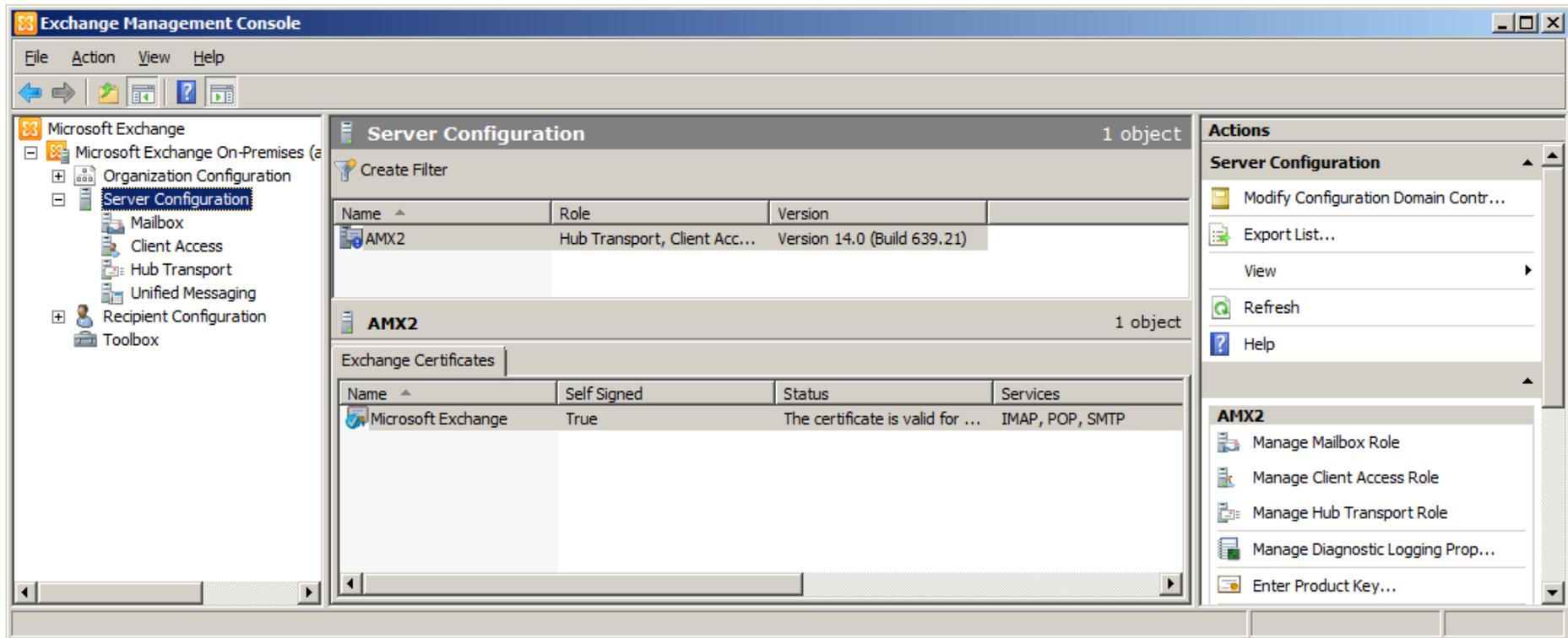
The eMail sends the info and debug log when configured, so any mail error message is only available on the console. It is not in the logs.

## Exchange

Configuration for Exchange:

- SMTPaccount cannot be administrator, Exchange application event log shows “provided valid credentials, but is not authorized to use the server”.
- SMTPssl must be true, when false Exchange application event log shows “The SMTP server requires a secure connection or the client was not authenticated”.
- Check the certificate that SMTP is using in the Exchange Management Console / Server Configuration



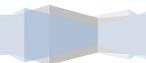


Note that the certificate is self-signed and that it cannot be exported from the EMC. Use Certificate Management to do this, and then install it on the system running AMX.

## Gmail

Configuration for gmail. <https://support.google.com/a/answer/176600?hl=en>. The “lessecure” security setting must be true, or an email will be received with the subject “Google Account: sign-in attempt blocked”. To understand and activate “lessecure” visit <https://support.google.com/accounts/answer/6010255?hl=en>

- SMTPserver = smtp.gmail.com



- SMTPssl = true
- SMTPport = 587
- SMTPaccount = \*\*\*\*@gmail.com
- SMTPpasswd = GmailPasswd.txt

## Test

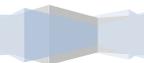
1. Create a file GmailPasswd.txt and add the password to the first line. The password will be encrypted when identitySync or identityReport first runs.
2. Run identitySync.exe in analyse mode, the info, debug and manual emails will be will be sent as configured.
3. Check the console for errors, the info.txt file and debug.txt files are not updatable by the email process because they are closed while being sent, so any errors are written to the console only.
4. Set mailMode back to 2 (inhibit email) in ActiveDirectory2.properties.

### 3. Configure email for Account Create

This exercise shows how to compose an email and send it to a user's manager when a new account is created.

1. Open the example template CreateAccountMessageTemplate.txt and make modifications as required.

The template substitutes any attribute in the "Create" lines in the ActionFile.txt. The attributes in the template are enclosed in "%". There is some special handling of the attributes:



- %passwd% is masked in the debug.txt file and only sent in the clear in email messages.
- %table% creates a table of all the attributes found in the “Create” lines in the ActionFile.txt file.

The template can be in html format, the first line in the template must be <html>

2. Add a new user to IdentityReportAD1.csv with the manager field containing a valid manager distinguished name, your own for example.

3. Check ActiveDirectory2.Properties, ensure mail mode is set to 2 to inhibit email. Since the manager’s email may be a valid address, this will avoid sending any email.

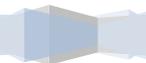
```
// MailMode = 0 send email  
// MailMode = 1 send email to default Recipients  
// MailMode = 2 inhibit email  
MailMode = 2
```

4. Check the CSVSchemaAD1.txt, has the managerJoin and managerID attribute flags set appropriately, see Tutorial AD1 Step 5 Manager Update for details.

5. Run identitySync.exe in the do mode. Analyse mode does not create the message.

6. Check the end of the debug.txt file, it will show the text of the Create Account message. Note that the mail is intended to be sent to the new user’s manager

```
Message CreateMessage Message To:Bonnie.Burns@example.com  
Message CreateMessage Subject:corp Account for Wood, Ailie
```



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Message from IT

A new account WoodA has been created in the corp domain for Ailie Wood

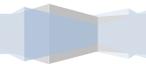
Password is \*\*\*\*\*

All attributes and values

accountName: WoodA  
active: Y  
displayName: Wood, Ailie  
distinguishedName: CN=Ailie Wood,ou=EDN,ou=accounts,dc=corp,dc=example,dc=com  
firstName: Ailie  
lastName: Wood  
mail: Ailie.Wood@example.com  
manager: cn=bonnie burns,ou=edn,ou=accounts,dc=corp,dc=example,dc=com  
ManagerMail: Bonnie.Burns@example.com  
passwd: \*\*\*\*\*

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7. Run identitySync.exe in the undo mode



8. Change CreateAccountMessageTemplate.txt to modify the template to suit your organisation, perhaps removing the %table% and using the first and last names as part of the message.
9. Run identitySync.exe in the do mode, check the debug.txt file to see the new mail format.
10. Run identitySync in the undo mode.
11. Remove the new user from IdentityReportAD1.csv.

