

Microsoft Azure Administrator - Manage Azure AD Objects

MANAGE AZURE AD USERS AND GROUPS



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Overview

















Create users and groups

Manage user and group properties

Manage guest accounts



Exercise Files



What do you want to learn?

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Troubleshooting with Microsoft Azure Network Watcher

by Tim Warner

Microsoft now gives you packet-level access to your Windows Server and Linux virtual machines (VMs) running in Azure. You'll learn how to use Network Watcher to troubleshoot network security groups (NSGs), perform packet captures, and much more.

[Resume Course](#) [Bookmark](#) [Add to Channel](#)

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Learning Check

Recommended

These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer. We find this to be even more effective than written lab exercises.

[Download exercise files](#)

Course author

**Tim Warner**

Timothy Warner is a Microsoft Most Valuable Professional (MVP) in Cloud and Datacenter Management who is based in Nashville, TN.

Course info

Level	Intermediate
Rating	★★★★★
My rating	★★★★★
Duration	2h 12m
Released	31 Oct 2017

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Exercise Files

The screenshot displays a Windows desktop environment with three overlapping windows:

- File Explorer (Left):** Shows the 'Downloads' folder. A list of folders is visible, with '02' selected. The status bar at the bottom indicates '0 / 5 object(s) selected'.
- Text Editor (Center):** A Notepad window titled 'microsoft-azure-ad-privileged-identity-management-configuring-m4-links.txt'. It contains a list of 22 numbered items, each consisting of a title and a URL. The text is as follows:

```
1 Module 4: Organize and Perform Azure AD PIM Access Reviews
2
3 Microsoft Azure
4 https://azure.microsoft.com/en-us/
5
6 Azure Documentation
7 https://docs.microsoft.com/en-us/azure/
8
9 Azure AD Privileged Identity Management (PIM) documentation | Microsoft Docs
10 https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/
11
12 Identity Governance - Azure Active Directory | Microsoft Docs
13 https://docs.microsoft.com/en-us/azure/active-directory/governance/identity-governance-overview
14
15 Create an access review of Azure resource roles in PIM - Azure Active Directory | Microsoft Docs
16 https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-resource-roles-start-access-review
17
18 Review access to Azure AD roles in PIM - Azure Active Directory | Microsoft Docs
19 https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-how-to-perform-security-review
20
21 View audit history for Azure AD roles in PIM - Azure Active Directory | Microsoft Docs
22 https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-how-to-use-audit-log
```
- File Download Window (Right):** A small window showing a file named '02\demos\' with a size of 1,298 bytes and a download icon.

The status bar at the bottom of the text editor shows 'Spaces: 4 UTF-8 CRLF Plain Text'.



Microsoft Azure Administrator

Objective Domain

Exam AZ-104: Microsoft Azure Administrator – Skills Measured

This exam will be updated on November 24, 2020. Following the current exam guide, we have included a version of the exam guide with Track Changes set to “On,” showing the changes that will be made to the exam on that date.

Functional Group

Manage Azure identities and governance (15-20%)

Objective

Manage Azure AD objects

Skills

- create users and groups
- manage user and group properties
- manage device settings
- perform bulk user updates
- manage guest accounts
- configure Azure AD Join
- configure self-service password reset
- NOT: Azure AD Connect; PIM



Azure AD Users



Azure AD User Types

Cloud identities

- Local Azure AD
- External Azure AD

Hybrid identities

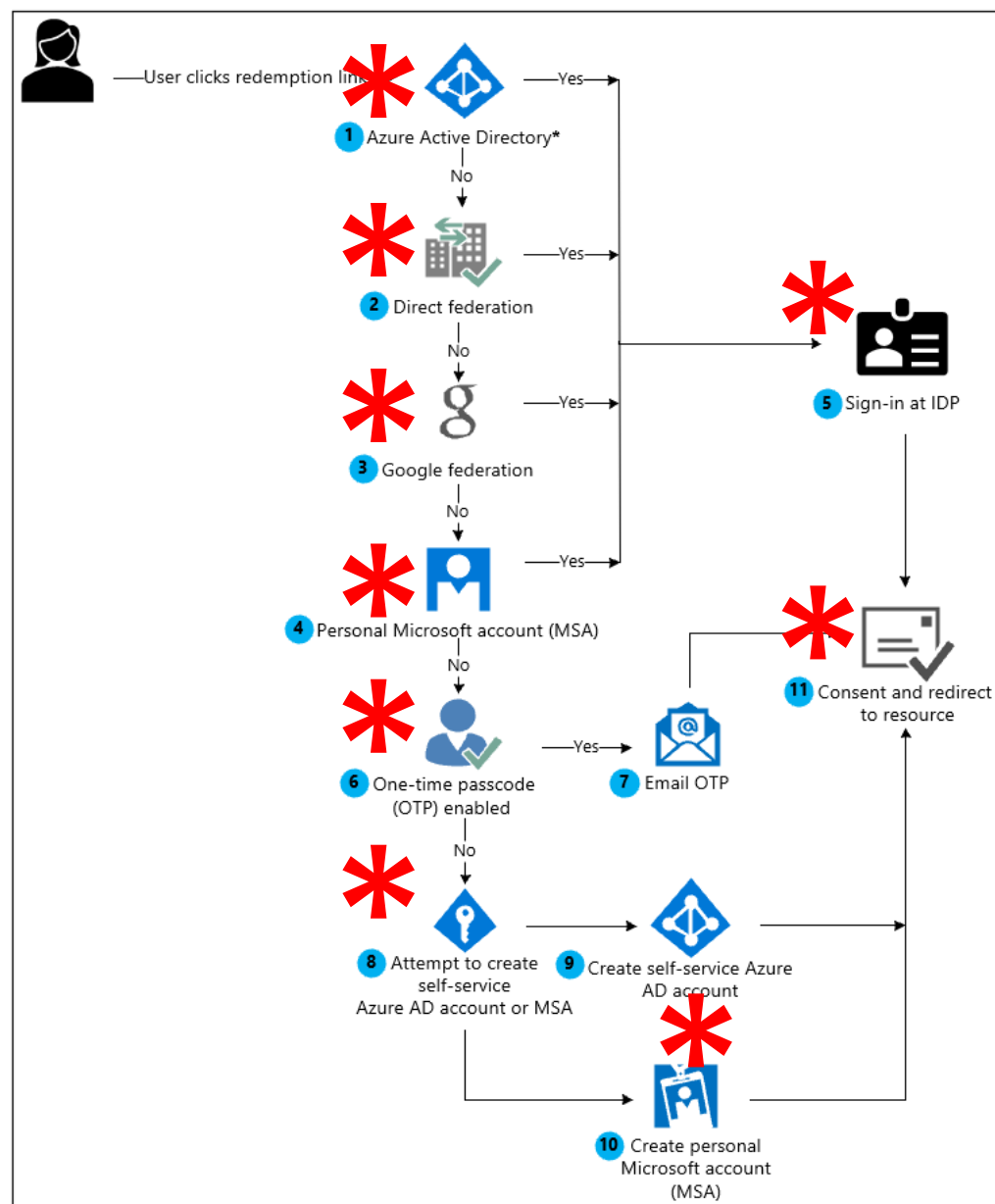
- Directory-synchronized

Guest identities

- Azure AD B2B Collaboration
- External identities



Azure AD B2B Collaboration



Create Azure AD User - PowerShell

```
Install-Module -Name AzureAD  
Connect-AzureAD
```

```
$PasswordProfile = New-Object -TypeName  
Microsoft.Open.AzureAD.Model.PasswordProfile  
$PasswordProfile.Password = "P@ssw0rd8!"  
$PasswordProfile.EnforceChangePasswordPolicy = $true
```

```
New-AzureADUser -DisplayName "Pat Smith" -PasswordProfile $PasswordProfile `   
-UserPrincipalName "pats@timw.info" -AccountEnabled $true
```



Create Azure AD User - CLI

```
az ad user create --display-name "Adee Lester" \  
  --password "P@$w0rd13!" --user-principal-name "adee@timw.info" \  
  --force-change-password-next-login --output table
```



Bulk Azure AD User Account Creation

Microsoft Azure Search resources, services, and docs (G+/I)

Dashboard > TIMW.INFO > **Users | All users (Preview)**
TIMW.INFO - Azure Active Directory

+ New user + New guest user Bulk operations Refresh Reset password Multi-Factor Authentication

This page includes previews available. View previews →

Search users 22 users found

Name User principal name User type Directory sync

Bulk create user ×

1. Download csv template (optional)
Download
2. Edit your csv file
3. Upload your csv file
Select a file

UserCreateTemplate.csv - Excel Tim Warner

File Home Insert Page Layout Formulas Data Review View Help Acrobat Tell me what you want to do Share

	A	B	C	D
1	version:v1.0			
2	Name [displayName] Required	User name [userPrincipalName] Required	Initial password [passwordProfile] Required	Block sign in (Yes/No) [accountEnabled] Required
3	Example: Chris Green	chris@contoso.com	myPassword1234	No
4				
5				
6				
7				
8				
9				

UserCreateTemplate

Scroll Lock 100%

Azure AD Groups





Azure AD Groups

Security

Owners

**Dynamic
membership**

Microsoft 365

**Assigned
membership**

**Group-assigned
roles and licenses**



Administrative Units



Azure AD user and group container
analogous to organizational unit (OU) in
local Active Directory

Logically organize your Azure AD users

Delegate administrative permissions



Create Azure AD Group - PowerShell

```
Install-Module -Name AzureAD  
Connect-AzureAD
```

```
New-AzureADGroup -Description "Marketing" -DisplayName "Marketing" `
  -MailEnabled $false -SecurityEnabled $true -MailNickName "Marketing"
```

```
Add-AzureADGroupMember -ObjectId "62438306-7c37-4638-a72d-0ee8d9217680" `
  -RefObjectId "0a1068c0-dbb6-4537-9db3-b48f3e31dd76"
```



Create Azure AD Group - CLI

```
az ad group create --display-name Sales --mail-nickname Sales
```

```
az ad group member check --group Sales --member-id xxxxxxxx-xxxx
```

```
az ad group member add --group Sales --member-id xxxxxxxx-xxxx
```



Demo



1

Create a dynamic group + license

Create cloud user in target city

Invite guest user in target city

Demonstrate RBAC parity



Summary



Remember that Azure AD and ARM are covered by different engineering teams

- PowerShell, CLI

Administrative units bring Azure AD more into parity with Local AD

- They are still very different identity stores, however

Next module: Administer Azure AD Devices

