









Content

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Introduction

Estimated time to complete this lab

120 minutes

Objectives

During this lab, you will learn how to get started with Microsoft 365 to;

- Implement a passwordless authentication policy to prevent users from phishing
- Implement a Defender for Office 365 policy to prevent phishing
- Use the Graph API to configure a Microsoft 365 tenant
- Deploy a MSIX application package

Prerequisites

To complete this course, you will be needing;

- Laptop/computer with Internet browser and Wi-Fi connected
- A Microsoft 365 business subscription

Materials

All student materials are available for download here:

https://github.com/Copaco/handsonlab/

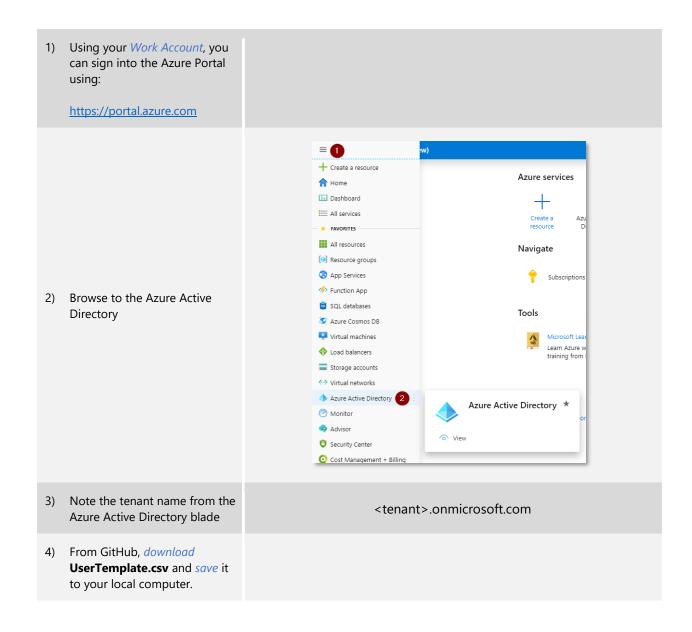


Activity 1: Use Passwordless Sign-in to prevent phishing

Estimated time to complete this activity

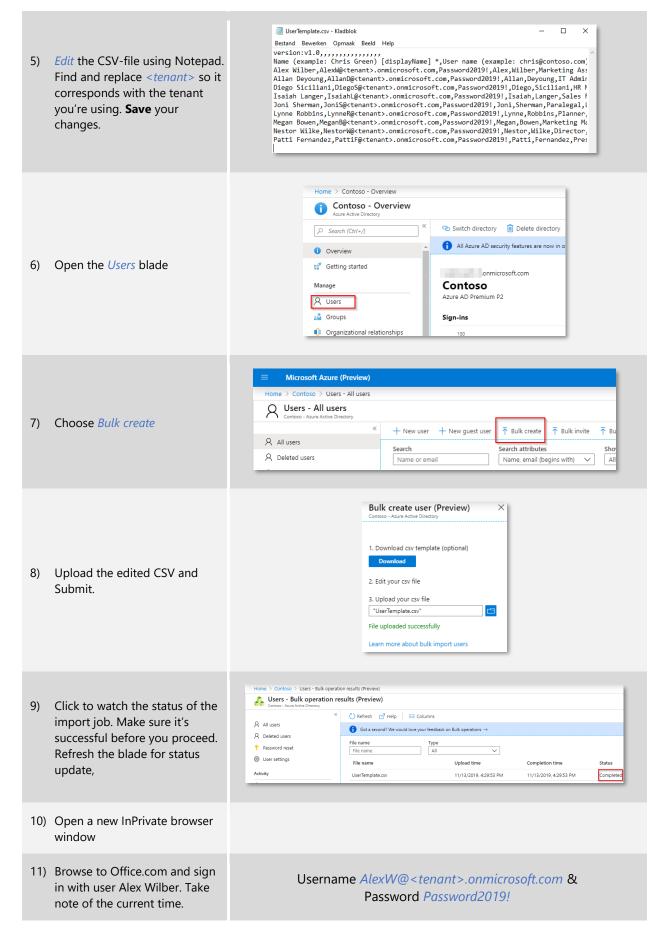
45 minutes

Exercise 1a : Setting up the user accounts



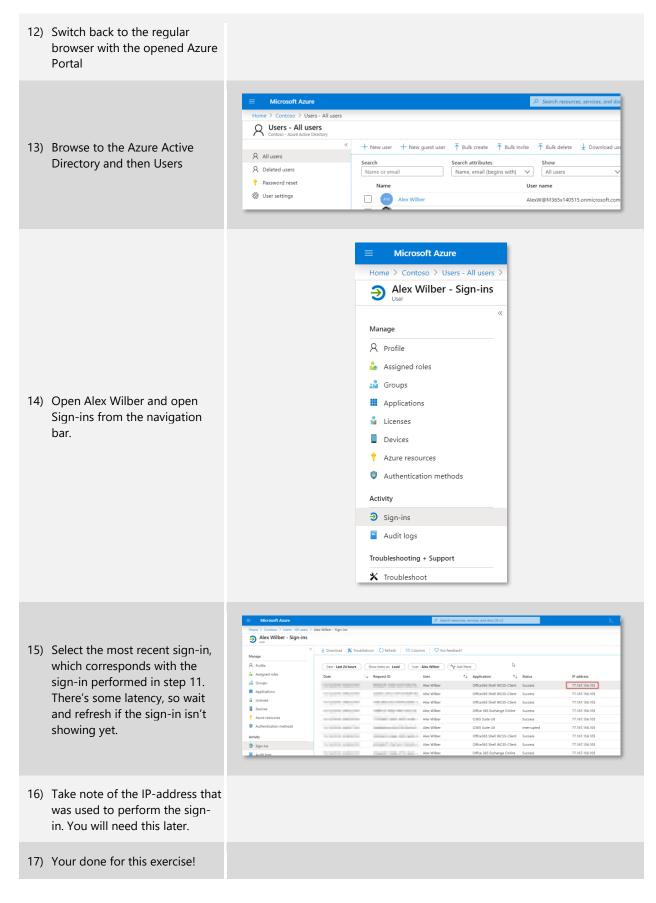








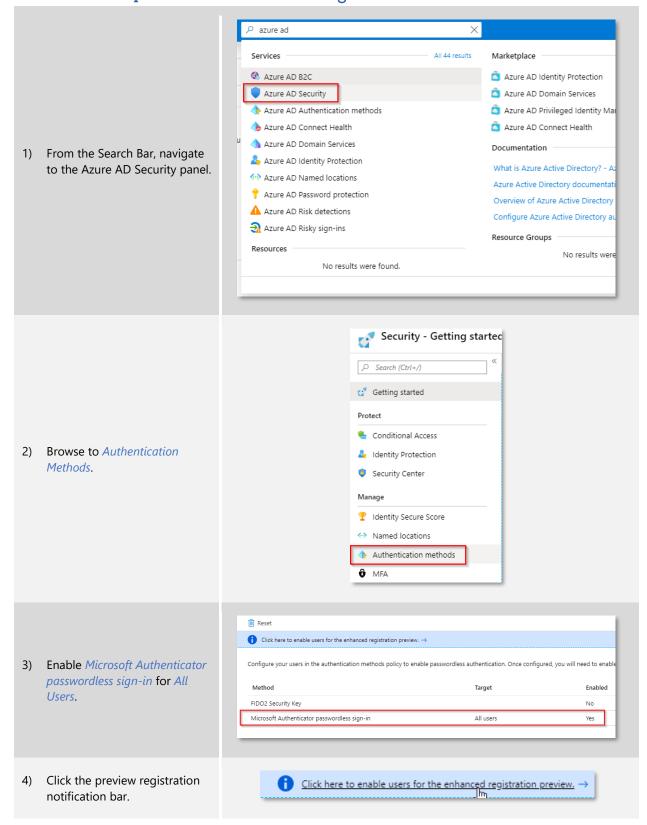








Exercise 1b: Implement Passwordless Sign-in

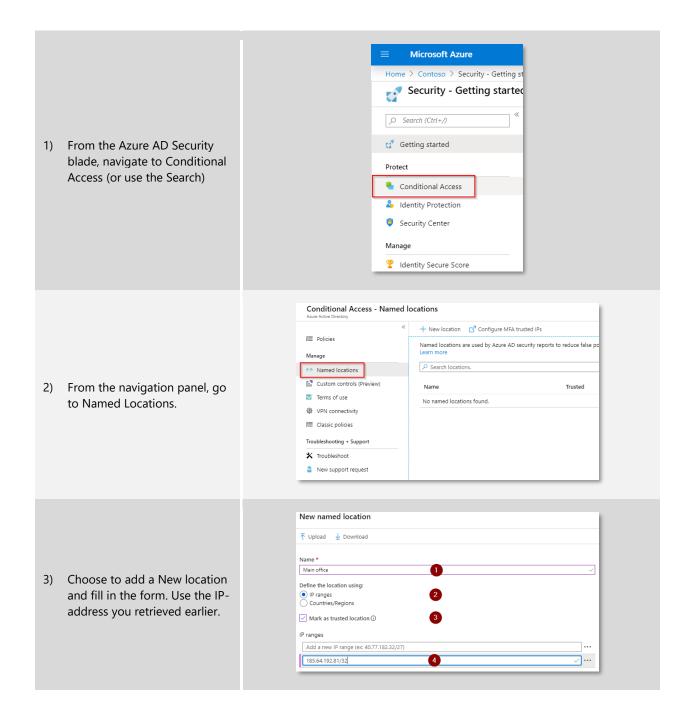








Exercise 1c: Implement custom Conditional Access policy



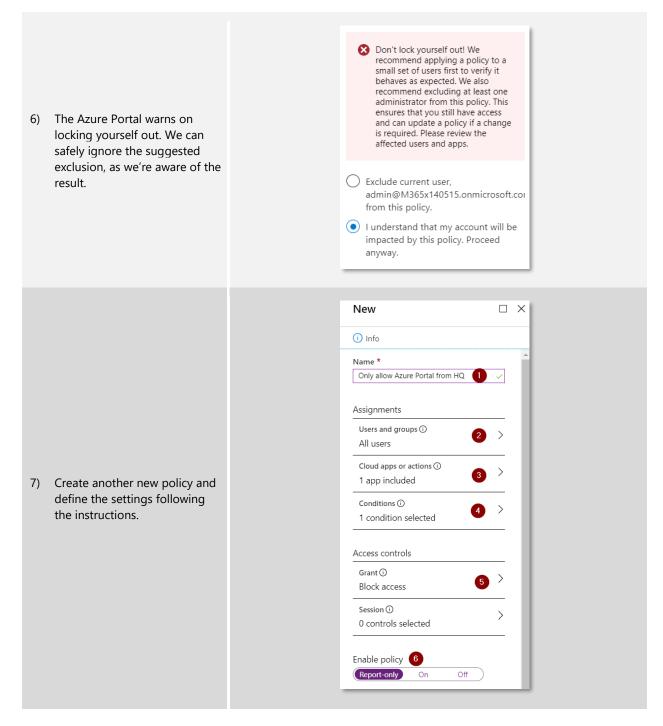




4) Create a new Conditional Access policy to require MFA for all users. Define the settings following the example on the right	Control user access based on conditional access policy to bring signals together, to make decisions, and enforce organizational policies. Learn more Name * Require MFA for everyone Assignments Users and groups ① All users Cloud apps or actions ① All cloud apps Conditions ① 0 conditions selected Access controls Grant ① 1 control selected Session ① 0 controls selected
5) Make sure to Grant access with the requirement for MFA.	Grant Control user access enforcement to block or grant access. Learn more Block access Grant access Require multi-factor authentication Require device to be marked as compliant ① Require Hybrid Azure AD joined device ① Require approved client app ① See list of approved client apps Require app protection policy ① See list of policy protected client apps Require password change ① For multiple controls Require one of the selected controls

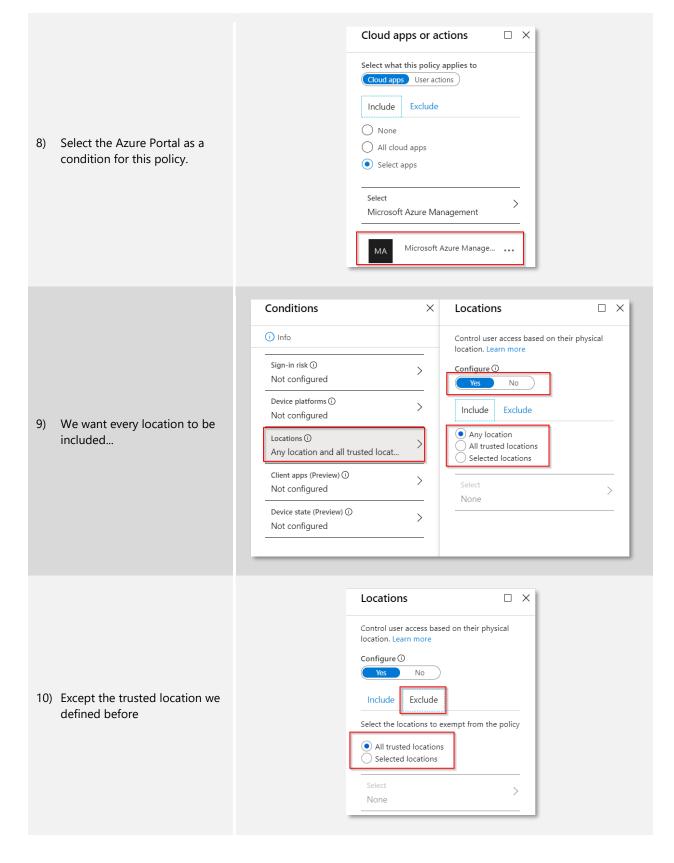




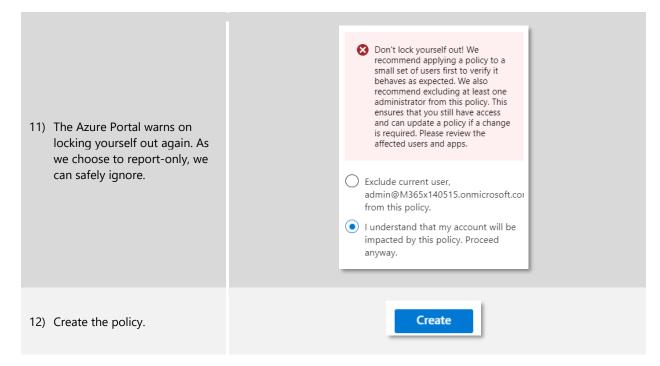




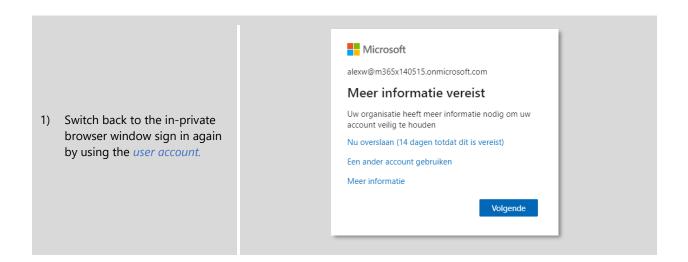






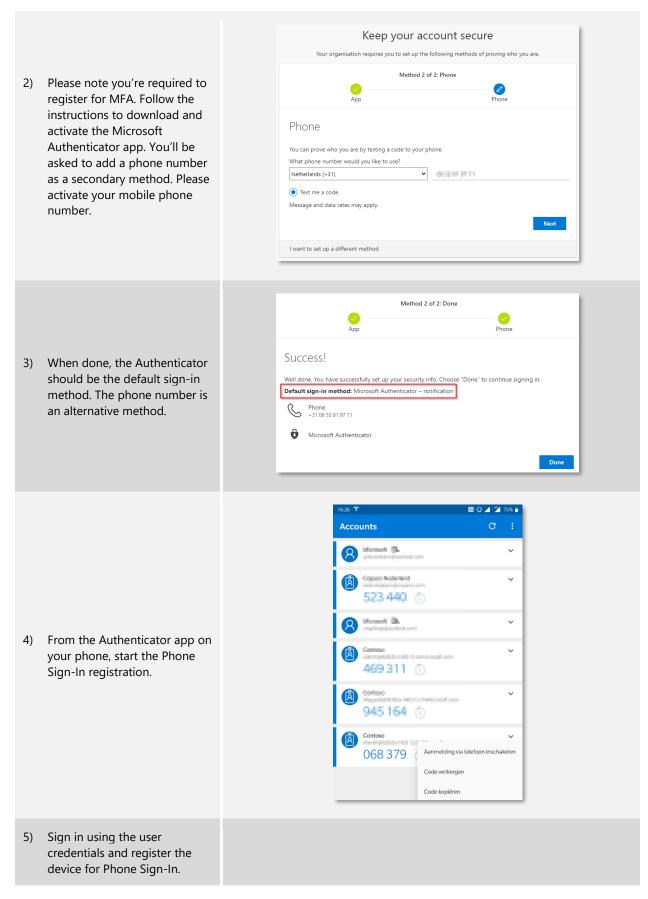


Exercise 1d: Validate Passwordless Sign-in



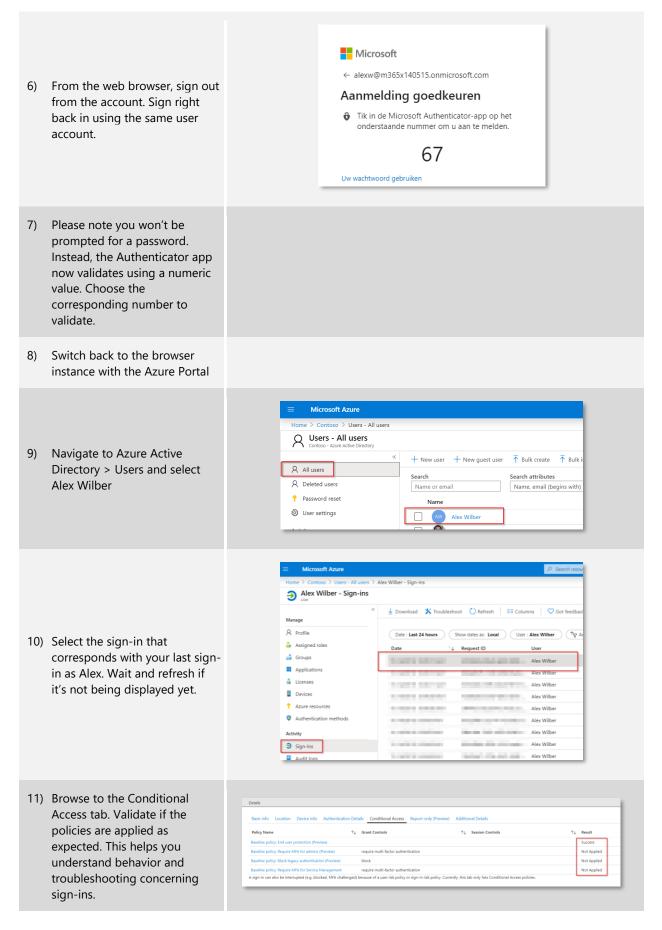
















12) Browse to the Report-Only tab.

Verify that the policy should block access, but hasn't because of the report-only setting. This is a great way to check your policies before taking them into production.

13) Your done for this exercise!

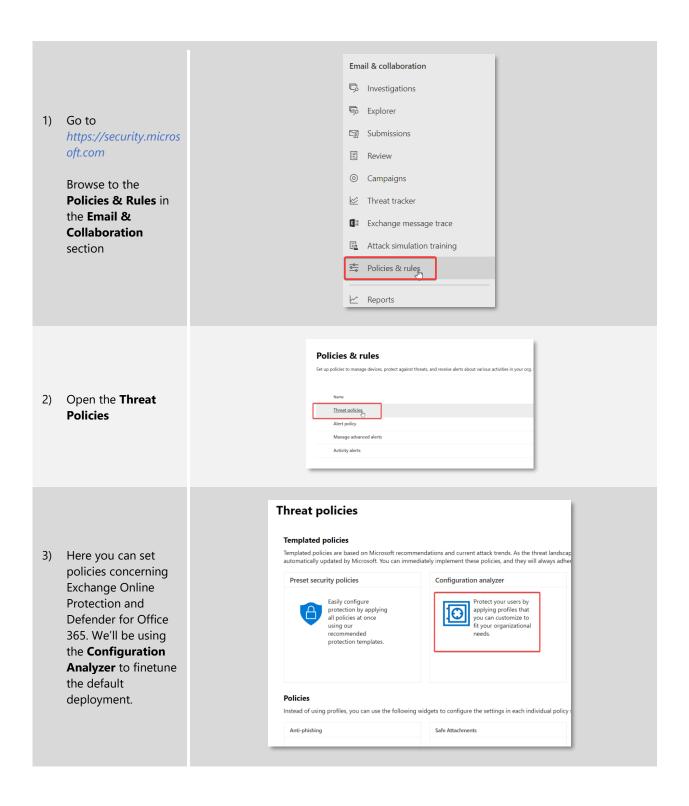




Activity 2 : Prevent against phishing attacks with Defender for Office 365

Estimated time to complete this activity

15 minutes







Take note that the default configuration is missing some important settings Policy group/setting name and the indicator is showing a red flag. > Anti-spam = 5 recommendations Users are not fully > Anti-phishing 11 recommendations secured from spam, malware and > Anti-malware 1 recommendations phishing attacks. > Safe Attachments All settings follow Standard recommendations We'll be focusing on the anti phishing > Safe Links ■ All settings follow Standard recommendations policies in this lab, but feel free to analyze the other recommendations. Jan 30, 2021 501 AM
Jan 30, 2021 501 AM
tion Jan 30, 2021 501 AM
an 30, 2021 501 AM Include custom domains Office265 AntiPhish ...

If email is sent by an impersonated user Office365 AntiPhish ...

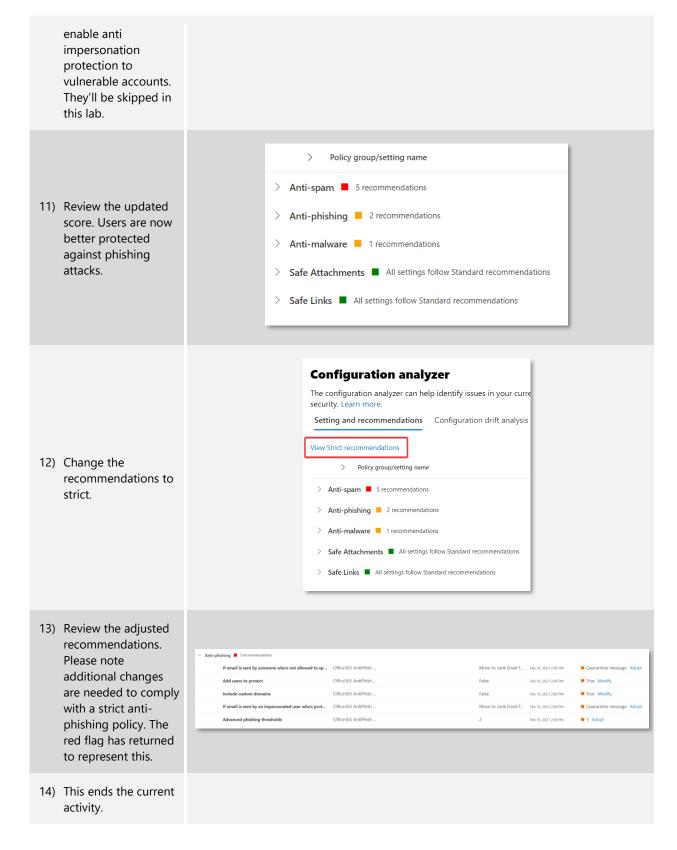
If email is sent by an impersonated domain Office365 AntiPhish ... True Modify Quarantine message Adopt Open the antiphishing Show tip for impersonated users

Show tip for impersonated domains

Show tip for unusual characters recommendations. Jan 30, 2021 5:01 AM • True Adopt Jan 30, 2021 5:01 AM If email is sent by an impersonated user who's prot... Office365 AntiPhish ... Jan 30, 2021 5:01 AM Move to Junk Email folder Adopt Start by adopting the recommendations to Show tip for impersonated domains Office365 AntiPhish Jan 30, 2021 5:01 AM Recommendations successfully adopted show mailtips to users when phishing is suspected. Make sure phishing Feb 16, 2021 1:52 PM messages are being Enable impersonation protection that uses mailbox... Office365 AntiPhish. Feb 16, 2021 1:52 PM True Adopt delivered to Junk or Quarantaine. Include the domains you use for email Automatically include the domains I own delivery to enable protection. Adjust the threshold Enable impersonation protection that uses mailbox... Office365 AntiPhish . Recommendations successfully adopted to the recommended Advanced phishing thresholds values. 10) In a production environment, you should include any custom domains configured and









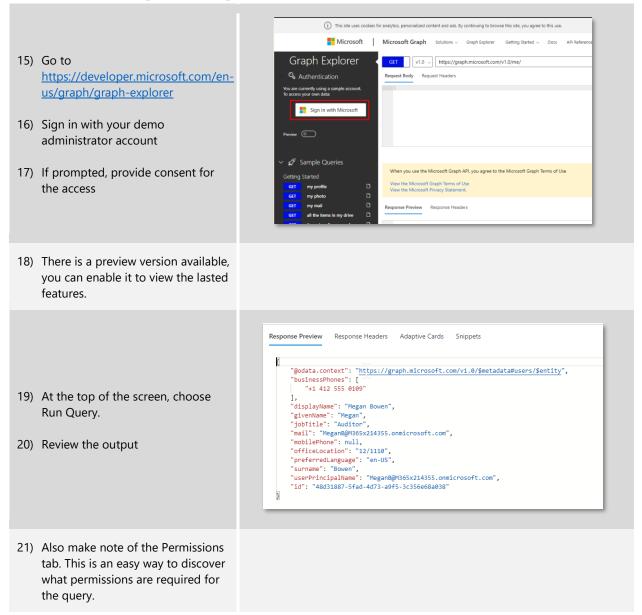


Activity 3: Graph API

Estimated time to complete this activity

45 minutes

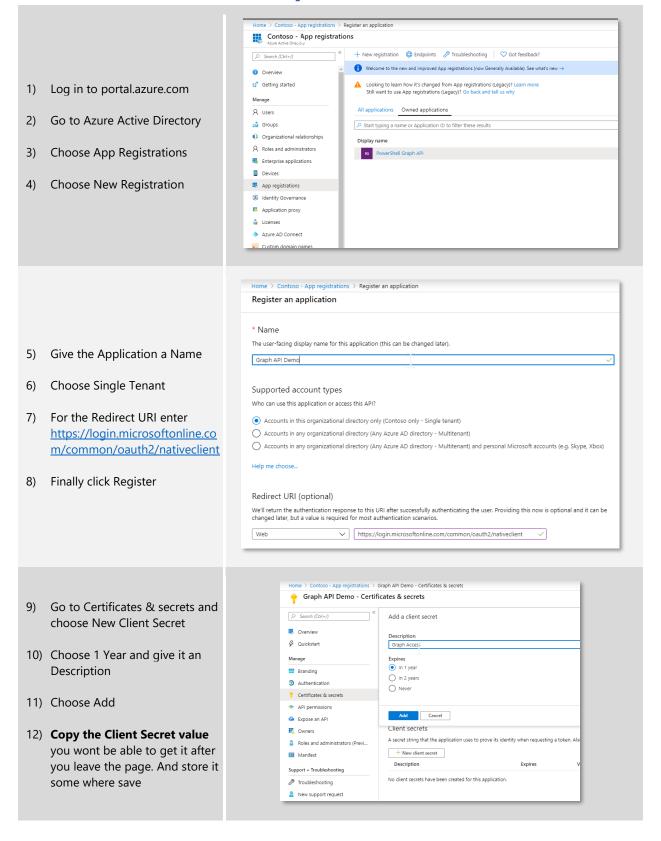
Exercise 4b: Graph API Explorer





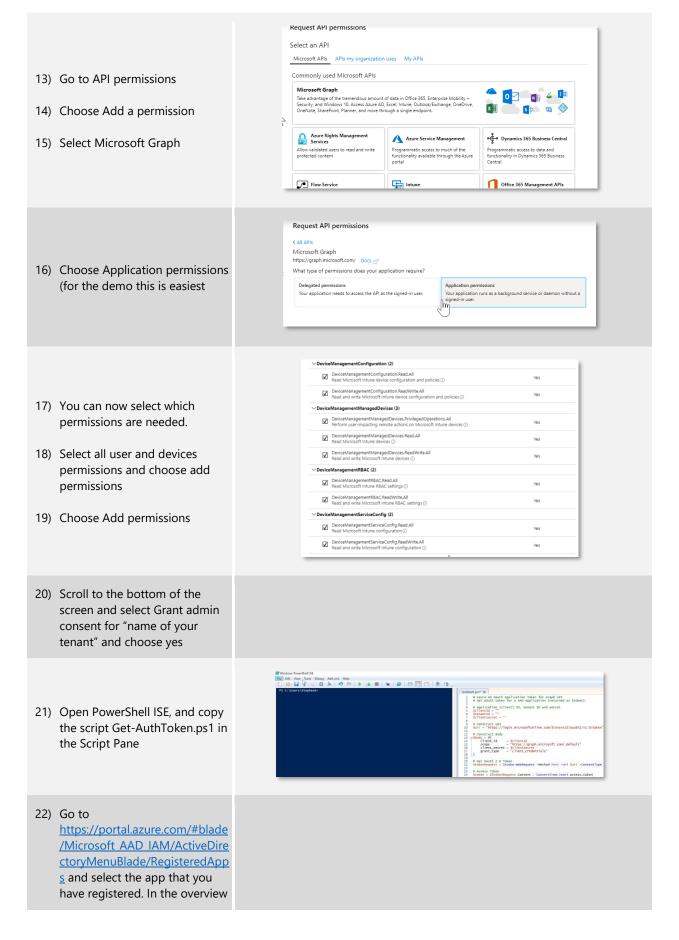


Exercise 4b: Connect with the Graph API













you can find the Application ID, Directory ID

23) In PowerShell copy the client id Tenant ID and the client secret. The client secret you got in activity 12.

- 24) Run the Script
- 25) If you run \$token then you should receive the token for authorization





Exercise 4c: Custom Graph API commands

1) From GitHub copy the Lab Graph cmds in a new page in PowerShell ISE 2) Make sure to adjust the parameters that match your tenant + some of the scripts assume that you have configuration policies and compliance policies in place. If you don't have these in the tenant create some! #get all users
Suri = "https://graph.microsoft.com/beta/users"
Susers = Invoke-RestMethod -Method GET -Uri Suri -Headers @{Authorization = "Bearer
Susers.value
Susers.value | Select-Object DisplayName, ID, UserPrincipalName 3) Get all users Juseis. value | select-object bisplaymame, to, oselel incly Get specific user Smegan = invoke-restmethod -Method GET -Uri Suri -Headers Make sure that you adjust the \$megan.displayName \$megan | Select-Object DisplayName, MobilePhone, City upn for the specific #update user info \$PatchJSON = @{ "mobilephone" = "+31640409642" "city" = "Eindhoven" Update user info } | ConvertTo-Json Invoke-RestMethod -Uri Suri -Method PATCH -Headers @{Aut| #Check if user info is updated
\$uri = "https://graph.microsoft.com/beta/users/Cameronw@M3 Check updated info \$megan = invoke-restmethod -Method GET -Uri \$uri -Headers Make sure that you adjust the \$megan.displayName \$megan | Select-Object DisplayName, MobilePhone, City upn for the specific #create new user
\$uri = "https://graph.microsoft.com/beta/users"

□\$NewUserJSON = @{ Create new user "accountEnabled" = \$true
"displayName" = "EL Demo User"
"mailNickname" = "eldemouser"
"userPrincipalName" = "eldemouser@M365x428595.(10) Make sure that you adjust the "mobilephone" = "+31640409642"
"city" = "Eindhoven"
"passwordProfile" = @{ upn your tenant wordProfile" = @{ forceChangePaccwordNovtSignIn" #check created user
\$uri = "https://graph.microsoft.com/beta/user \$DemoUser = invoke-restmethod -Method GET -Ur 11) Check created user \$DemoUser.displayName \$DemoUser | Select-Object DisplayName, Mobile





```
#get and delete created user
                                         $uri = "https://graph.microsoft.com/beta/users"
$uri = $uri + '/' + $response.id
12) Delete created user
                                         invoke-restmethod -Method GET -Uri $uri -Headers @
                                         Invoke-RestMethod -Method DELETE -Uri Suri -Header
                                             #get all groups
                                             $uri = "https://graph.microsoft.com/beta/gro
Invoke-RestMethod -Method GET -Uri $uri -Hea
                                             $groups = Invoke-RestMethod -Method GET -Uri
13) Get all groups
                                             $groups.value
                                             $groups.value | ft DisplayName
                                            #get member of first group
                                            $groups.value[0]
                                            $groupid = $groups.value[0].id
$uri = $uri + '/' + $groupid
14) Get Member of first group
                                            Invoke-RestMethod -Method GET -Uri $uri -Header
$uri = $uri + '/' + 'members'
                                            $members = Invoke-RestMethod -Method GET -Uri $
                                            #get groups user is member of
                                            $uri = "https://graph.microsoft.com/beta/users
                                            $membership = Invoke-RestMethod -Method GET -U
15) Get groups a user is member of
                                            $membership.value | select DisplayName
                                                ###Export Device configuration profiles
$uri = "https://graph.microsoft.com/beta/deviceMan.
                                                $configs = Invoke-RestMethod -Method GET -Uri $uri
16) Export Device configuration
                                            6
7
                                              foreach ($config in $configs.value) {
                                                     $configname = $config.displayName
$configfile = "C:\temp\$configname" + '.json'
    Profiles
                                            8
                                                     $config | ConvertTo-Json | out-file $configfil
                                           10
                                           11
                                              ###Export Device Compliance Policies
$uri = "https://graph.microsoft.com/beta/deviceMar
                                              $compliances = Invoke-RestMethod -Method GET -Uri
17) Export Device compliance
                                            foreach ($compliance in $compliances.value) {
    policies
                                                  $configname = $compliance.displayName
$configfile = "C:\temp\$configname" + '.json'
                                                   $config | ConvertTo-Json | out-file $configfil
                                              }
```



###Export Hello For Business Settings \$uri = "https://graph.microsoft.com/beta/deviceManage \$\text{\$WHBusiness} = Invoke-RestMethod -Method GET -Uri \$\text{\$uri}\$ **\$WHBusiness** 18) Hello For Business settings \$configname = \$WHBusiness.value | select Displayname
\$configfile = "C:\temp\\$(\$configname[0])" + '.json'
\$config | ConvertTo-Json | out-file \$configfile 19) Import Device Configuration **Policies** 20) Download the new-policydemo.json from GitHub to your #Import Device Configuration Policy
Suri = "https://graph.microsoft.com/beta/deviceManagement/deviceconfigurations"
SNewPolicy = get-content "C:\Users\StephanK\Desktop\MSIX demo\Graph Api\new-policy-demo.js local pc. \$outputNieuwPolicy = Invoke-RestMethod -Method POST -Uri Suri -Headers @{Authorization = 21) Edit the \$newPolicy variable so Suri = "https://graph.microsoft.com/beta/deviceManagement/deviceconfigurations/\$(\$outputNi
Invoke-RestMethod -Method GET -Uri Suri -Headers @{Authorization = "Bearer \$token" } -Erro that the json is imported to the variable 22) Run the script. 23) Check the Intune Portal to confirm that a new Configuration Policy is created.



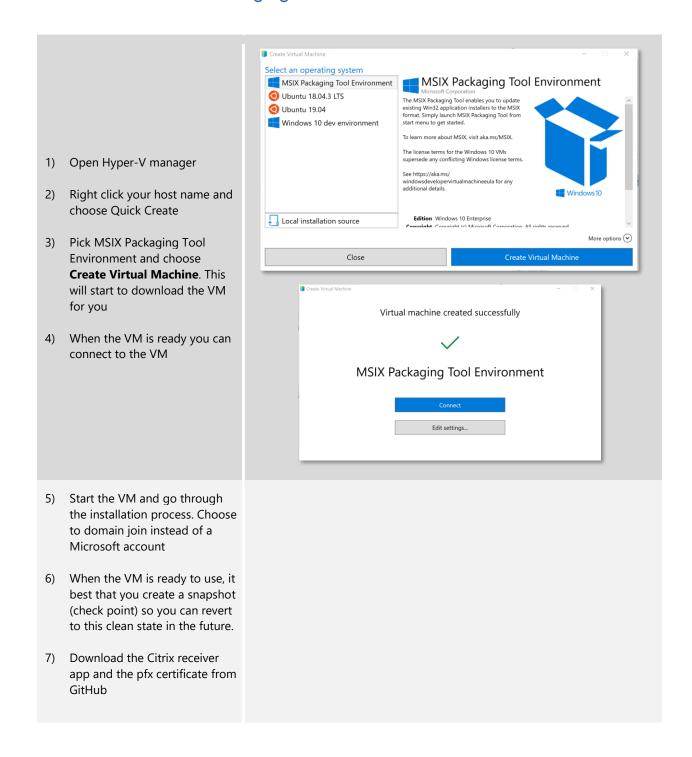


Activity 6: MSIX

Estimated time to complete this activity

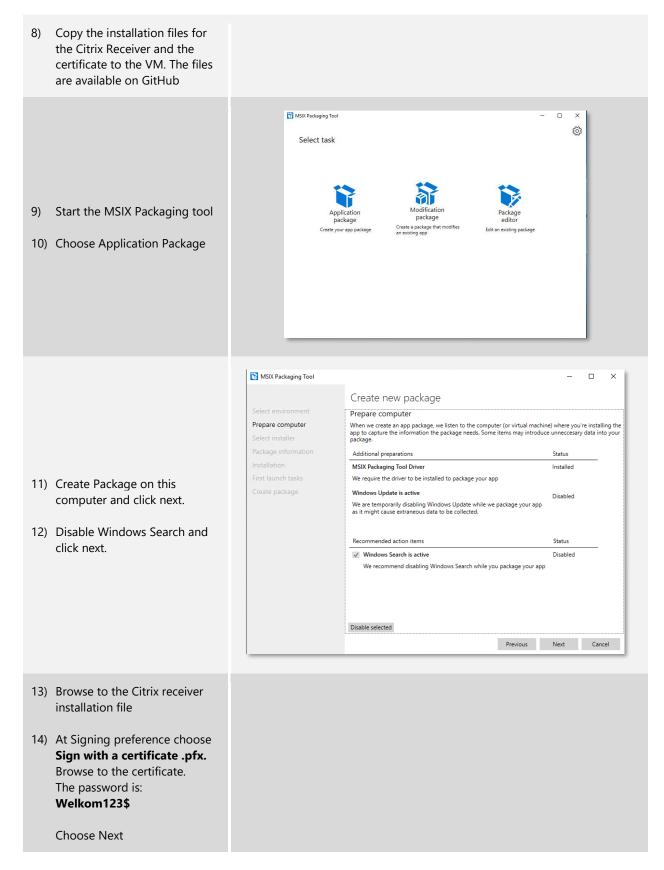
60 minutes

Exercise 6a: Create Packaging VM



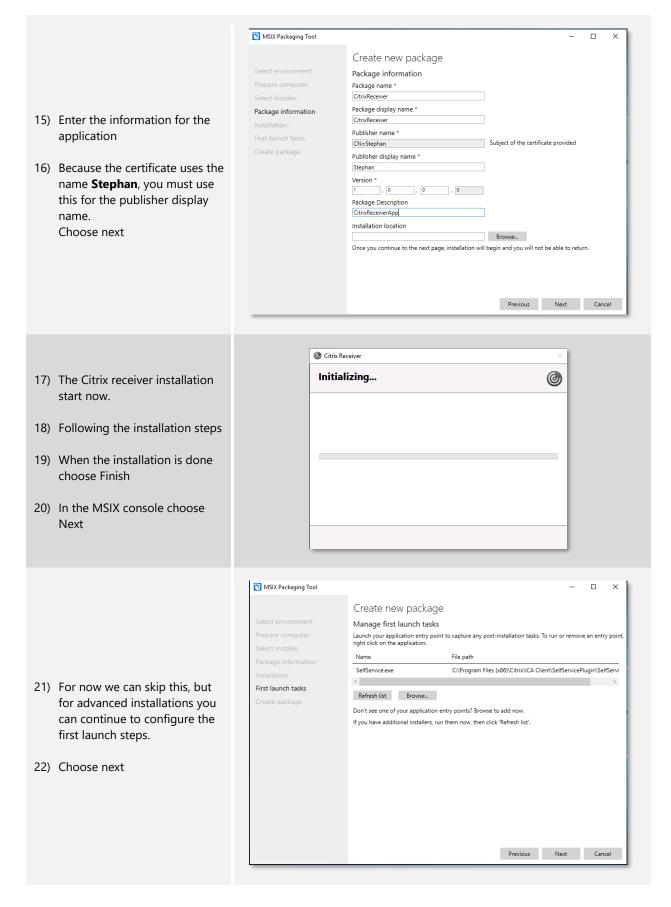






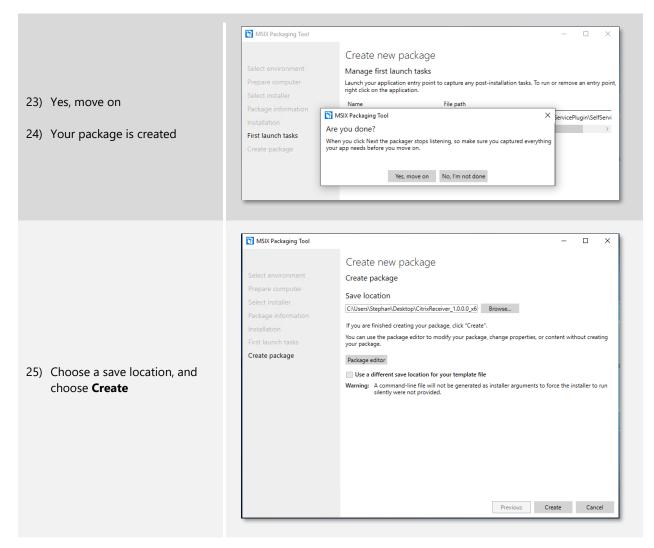












Exercise 6b: Test your package

Now you created the package you probably want to test it. There are a couple of ways you can do this. The first (and most easy way to do this) is to use the same MSIX machine you created. Since this being an M365 lab we can also deploy the MSIX with Intune, but this requires you to have a test VM which you can manage with Intune. This lab won't describe how to set up the test VM but you are free to set it up.

Exercise 6c: Deploy the MSIX application with Intune

Because the MSIX is signed with an self signed certificate that isn't trusted by default, we first have to deploy the certificate

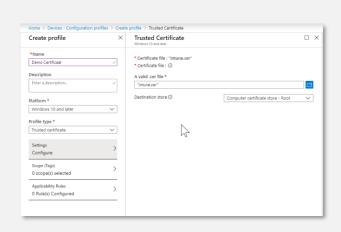
1) Go to

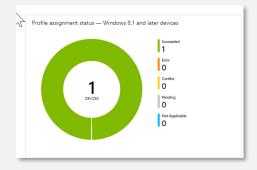
https://devicemanagement.micr
osoft.com/ and to Devices. Here
you can create a new
Configuration Profile

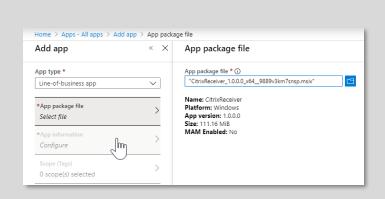




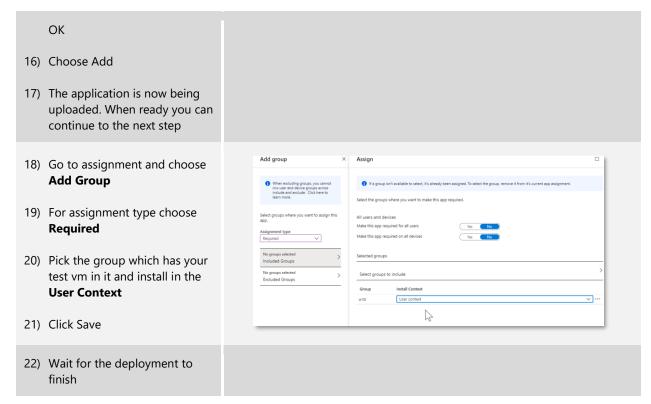
- 2) Give the configuration a Name
- For Platform choose Windows
 and later
- For Profile Type pick Trusted certificate
- 5) When you select Configure you can choose the cer file. This cer file can also be found at GitHub
- 6) For the Destination store you must choose **Computer certificate store Root**
- 7) Choose OK and Create
- 8) When the certificate is uploaded you can assign the Profile to a group which has the test VM in it.
- Wait and verify till the certificate is successfully is deployed to your test VM
- When the certificate is successfully deployed you can continue to deploy the Citrix receiver application
- In the device management portal go to Apps → All apps and choose Add
- 12) App type is **Line-of-Business**
- 13) At App package file navigate to your Citrix receiver MSIX package
- 14) Choose OK
- 15) Open the App information settings and reviews the settings. When ready choose











Exercise 6d: Test the Package locally

If you don't have a test VM which is enrolled in Intune you can also use the MSIX packaging machine to test your package.

