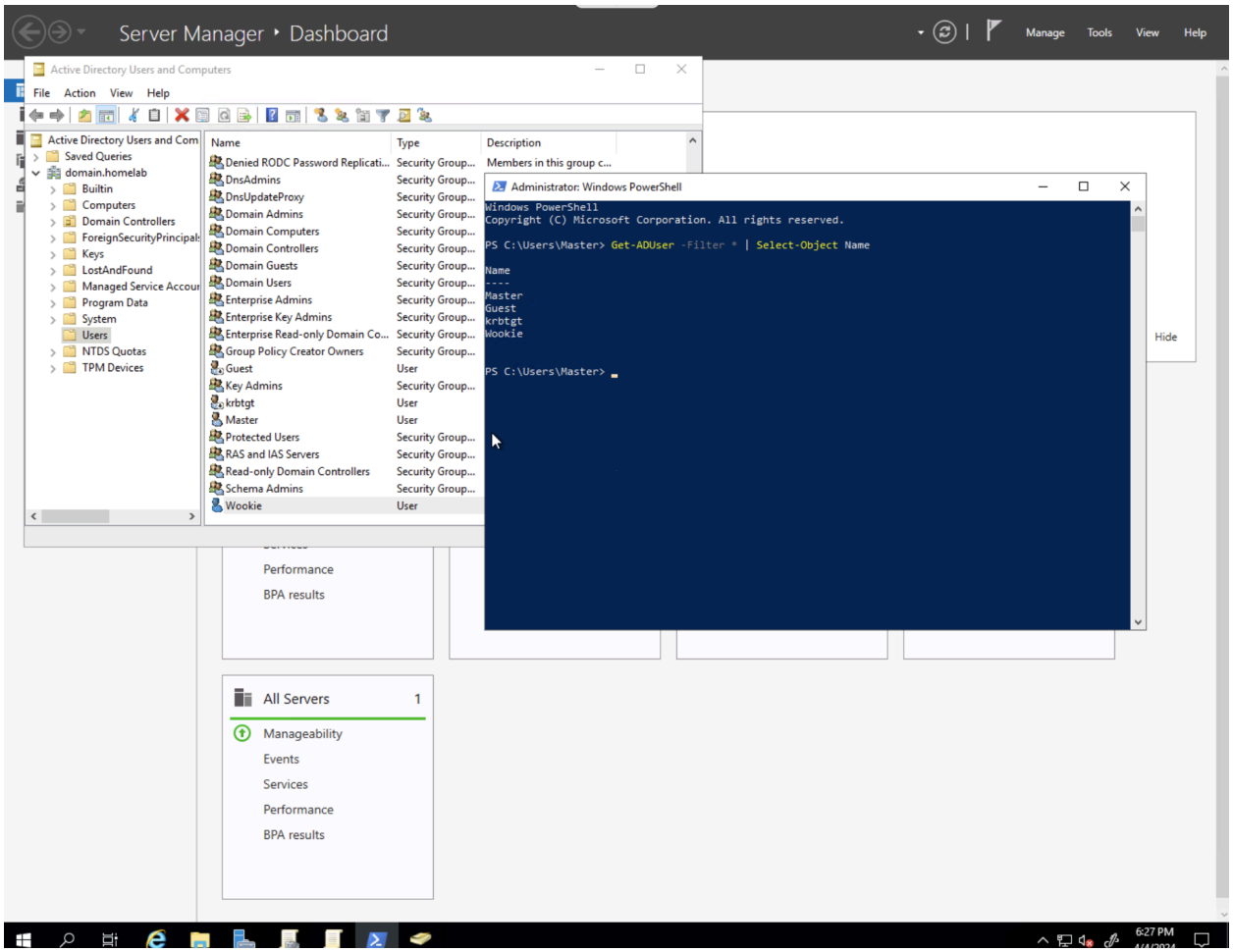
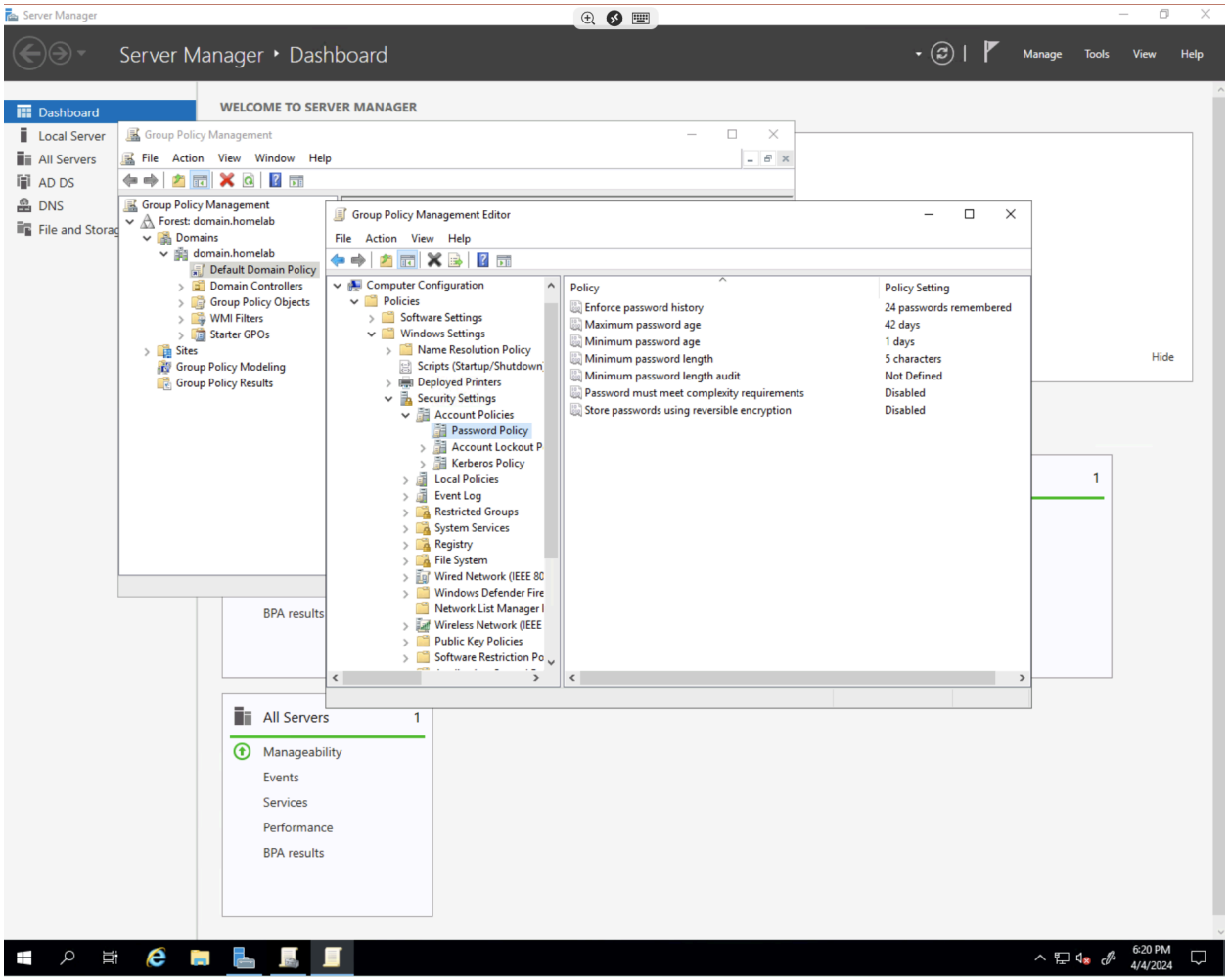
In this second part of the Azure AD project, I created a new user with Powershell, made some changes to the password policies, and then logged into the Windows 10 VM as domain.homelab\Master to grant the user permission to RDP into the machine. Afterward, I went to the server to map & create a shared folder for the new user that can be accessed on both the PC and server. Finally, I RDP'd into the PC as the new user, navigated to the shared folder, and created a sample text document to ensure proper configuration.

The first step was to use Powershell to create a new user. I began by running the "Import-Module ActiveDirectory" to import the module for Active Directory, allowing me to perform tasks in Powershell instead of navigating through menus. Then, I created a user with the command "new-aduser Wookie". To verify its creation, I ran the command "Get-ADUser -Filter * | Select-Object Name" which provided a list of all users.

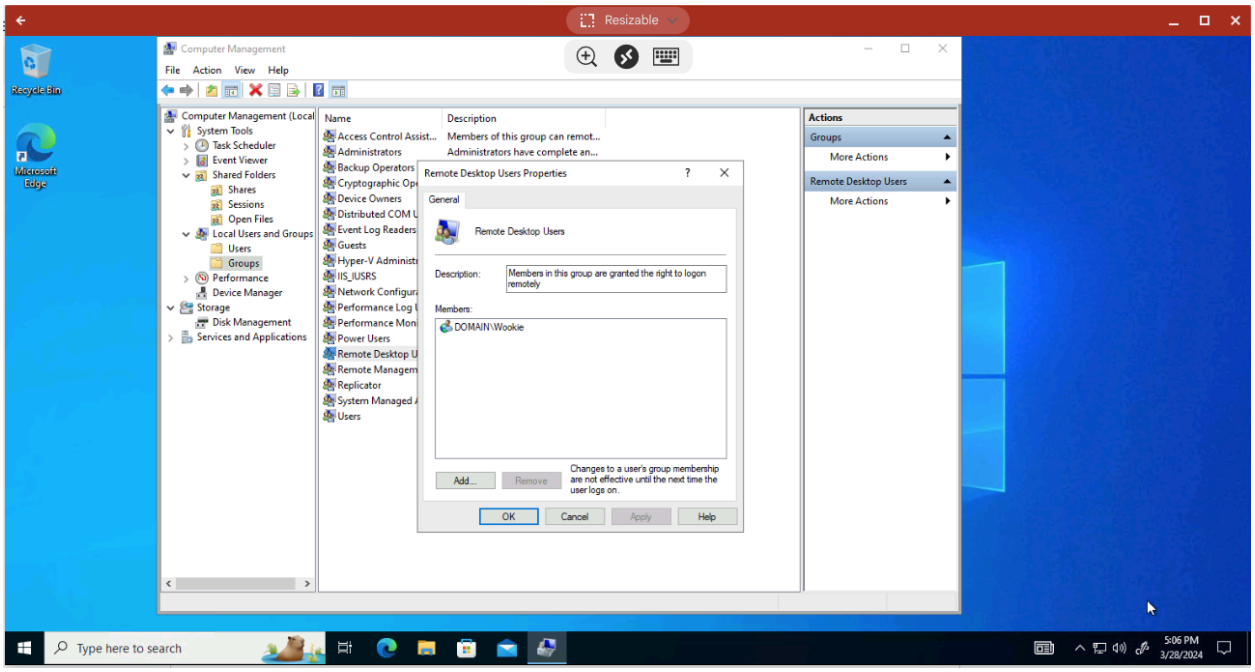


I then attempted to set a password for Wookie and activate the account but encountered an error stating that the password didn't fulfill the requirements. I addressed this issue by accessing the Group Policy Management option. From there, I right-clicked the Default Domain Policy and chose Edit. I then clicked Policies -> Windows Settings -> Security Settings - Account Policies -> Password Policy.

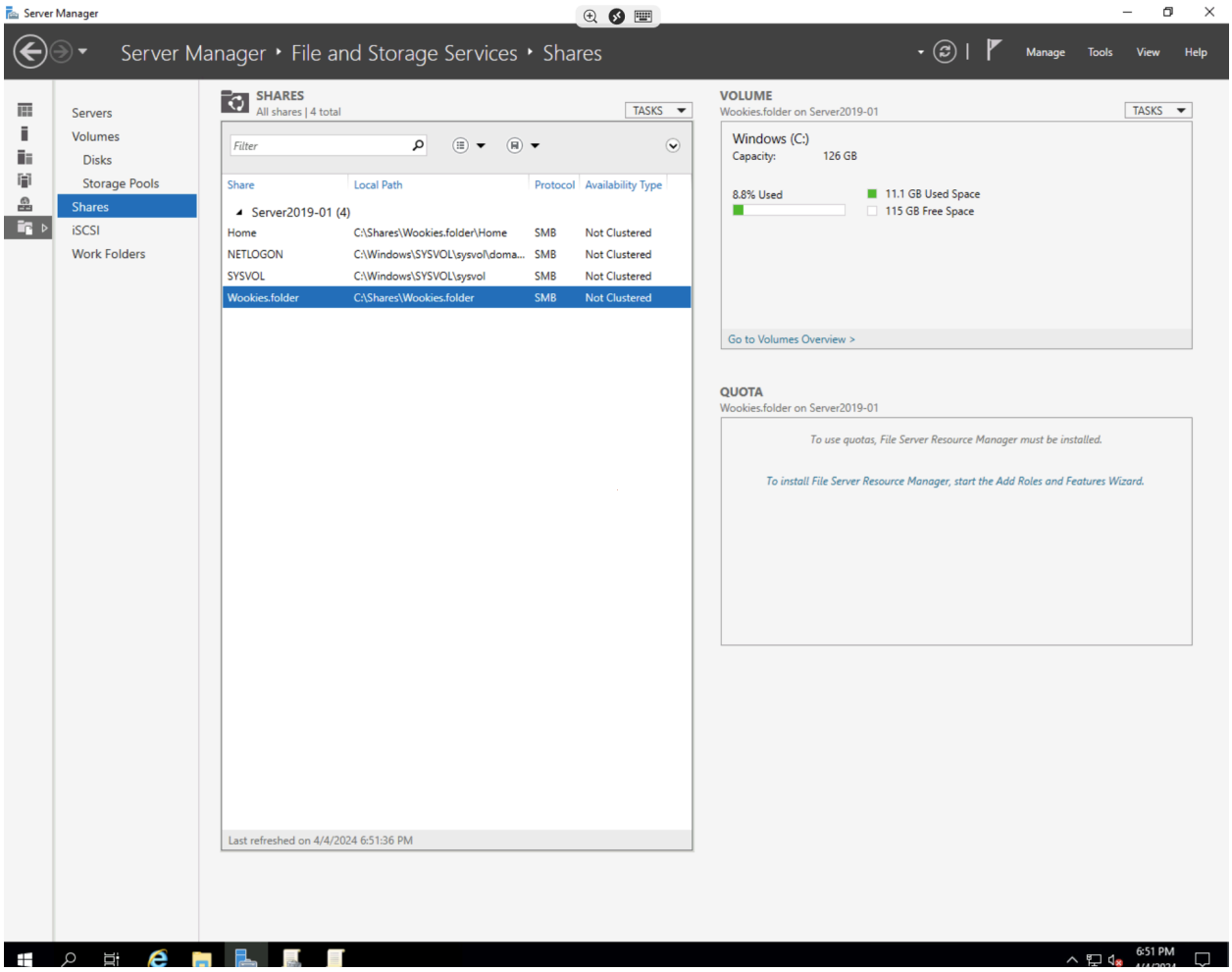


Here is where I can edit the password policies to whatever I decide. After clicking apply I refreshed everything and was able to add the password I wanted to use and activate Wookie. For demonstration purposes, I weakened the password requirements.

I then proceeded to give Wookie the ability to RDP into the Windows 10 PC. I did this by going to Computer Management -> clicking on groups in the Local User and Groups dropdown -> then selecting Remote Desktop Users -> clicking Add -> typing the name until it populated automatically and clicking ok. I could then log in via RDP as the user Wookie.



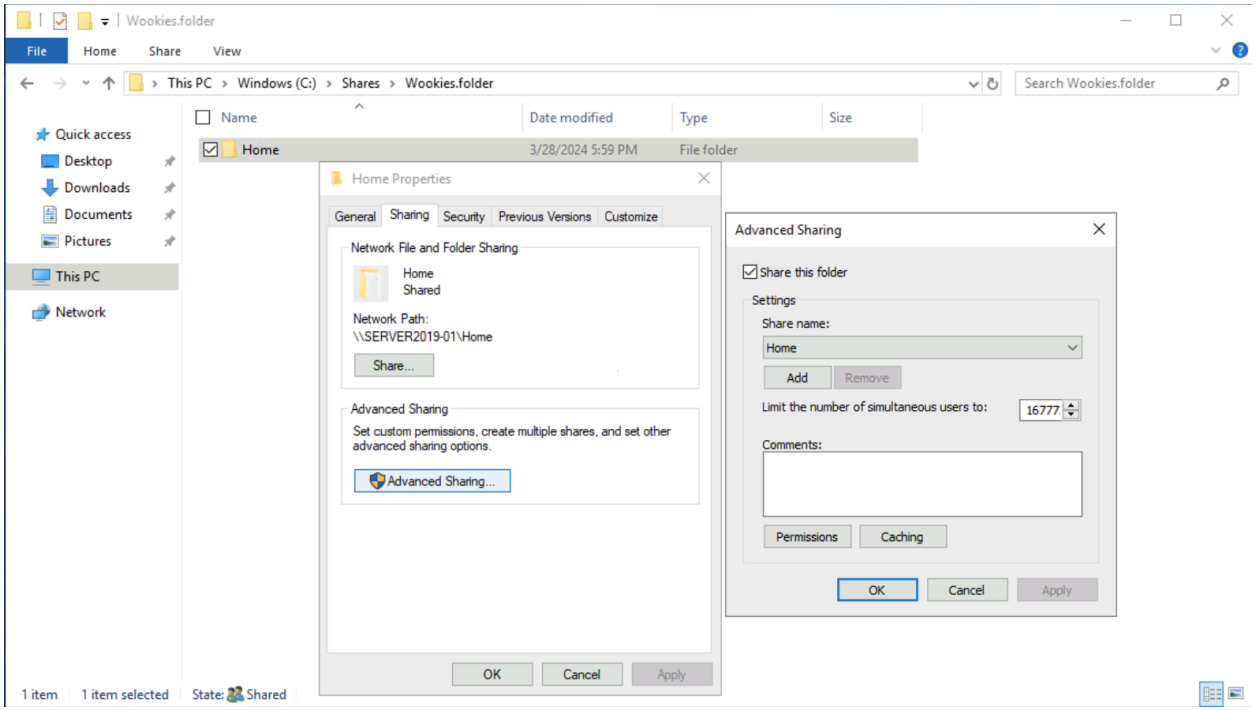
Moving on, I mapped a folder and created a shared folder specifically for Wookie. This involved accessing the Server Manager dashboard and selecting File and Storage Manager Services on the left -> Shares -> right clicking and selecting New Share. Here it gives options for how to set up the folder. I only modified the name to “wookies.folder” to keep it simple and created it.

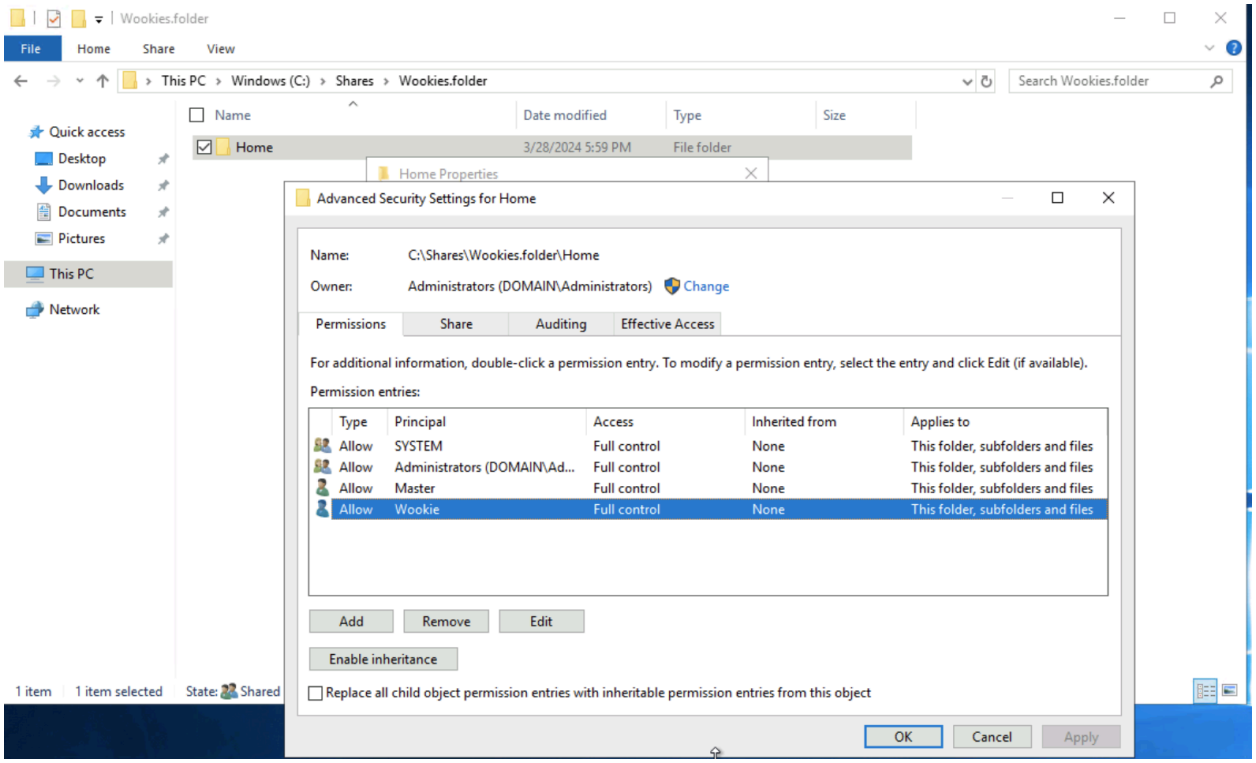


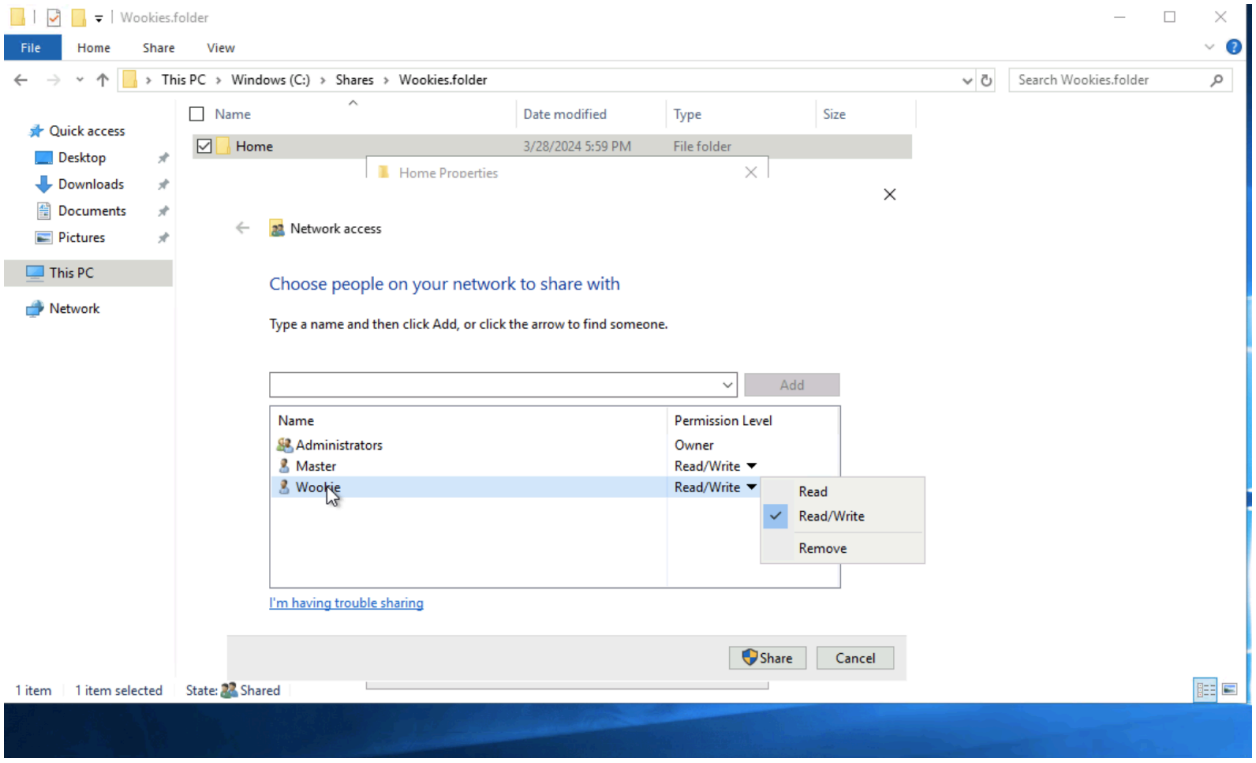
Next I navigated to the path of the folder and added a home folder to Wookies folder.

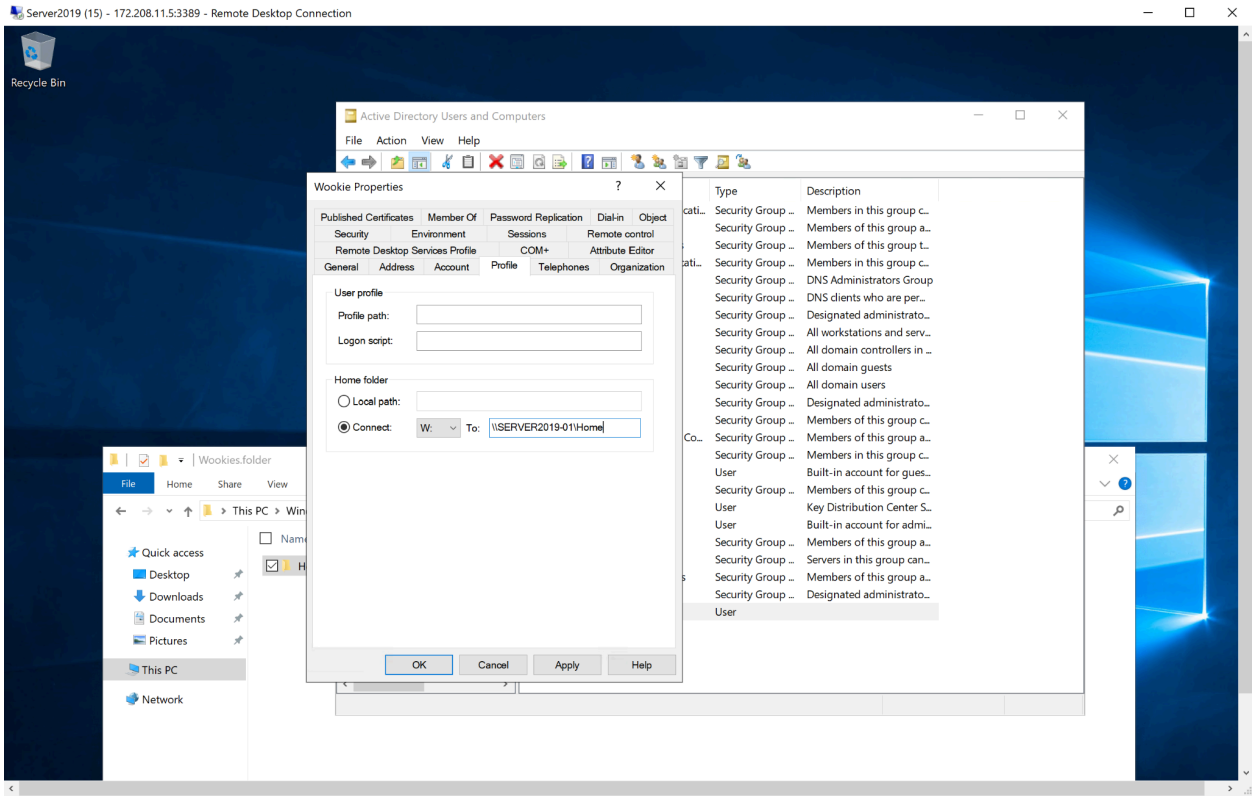
I right-click it and selected Properties -> Sharing -> Advanced Sharing -> share this folder. Then I clicked the Security tab in properties and selected Advanced -> Disable Inheritance -> convert inherited permissions into explicit permissions on this object -> clicked ok -> then select users and removed them. After that I clicked add -> select a principal -> enter Wookie -> click ok -> select modify on the list -> then apply -> then ok. Then I go back to the properties and sharing tab -> click share -> modify Wookies permissions to read & write -> click share -> click done. Then I copied the directory path to the home folder and went back to users in Active Directory -> select Wookie -> select Profile -> select Connect -> select a drive(I chose W) -> paste directory path next to drive W chosen and hit ok. The Pictures below show each

step.

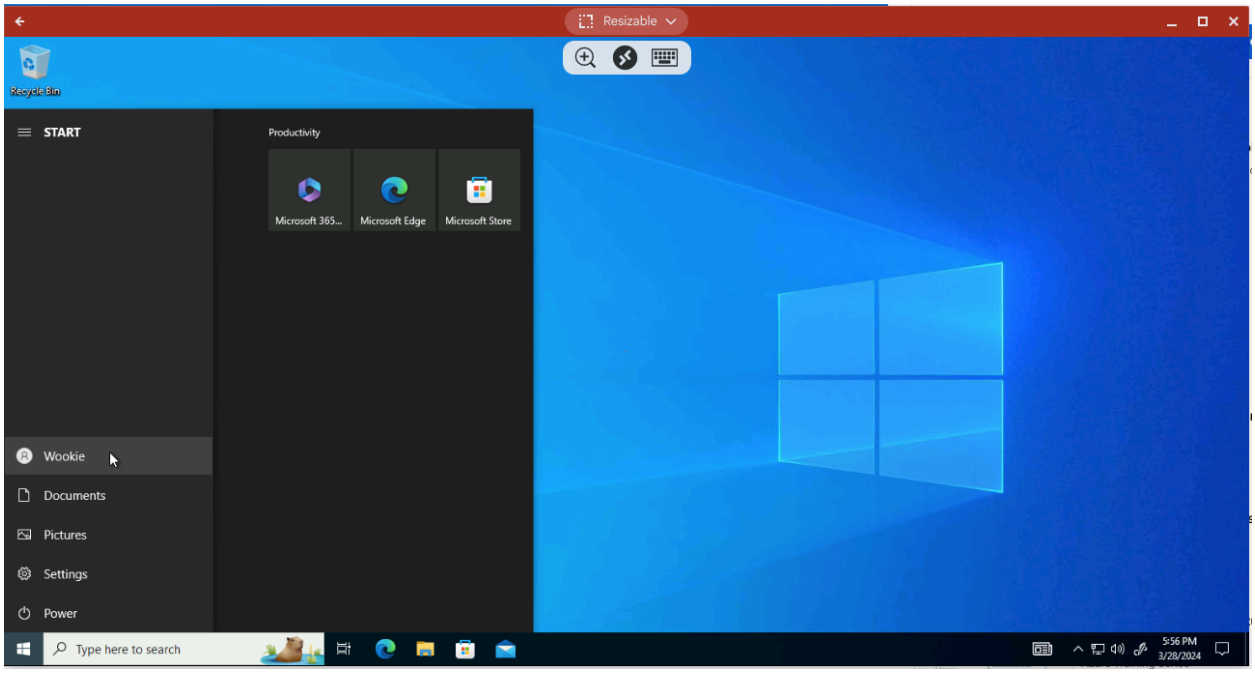

Wookies.folder
File
Home
Share
View
This PC › Windows (C:) › Shares › Wookies.folder
Search Wookies.folder
Quick access
Desktop
Downloads
Documents
Pictures
This PC
Network
Name
Date modified
Type
Size
Home
3/28/2024 5:59 PM
File folder
Home Properties
General
Sharing
Security
Previous Versions
Customize
Network File and Folder Sharing
Home
Shared
Network Path:
\\SERVER2019-01\Home
Share...
Advanced Sharing
Set custom permissions, create multiple shares, and set other advanced sharing options.
Advanced Sharing...
OK
Cancel
Apply
Advanced Sharing
Share this folder
Settings
Share name:
Home
Add
Remove
Limit the number of simultaneous users to:
16777
Comments:
Permissions
Caching
OK
Cancel
Apply
1 item
1 item selected
State: Shared


Wookies.folder
File
Home
Share
View
This PC › Windows (C:) › Shares › Wookies.folder
Search Wookies.folder
Quick access
Desktop
Downloads
Documents
Pictures
This PC
Network
Name
Date modified
Type
Size
Home
3/28/2024 5:59 PM
File folder
Home Properties
Advanced Security Settings for Home
Name:
C:\Shares\Wookies.folder\Home
Owner:
Administrators (DOMAIN\Administrators)
Change
Permissions
Share
Auditing
Effective Access
For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).
Permission entries:
Type
Principal
Access
Inherited from
Applies to
Allow
SYSTEM
Full control
None
This folder, subfolders and files
Allow
Administrators (DOMAIN\Ad...
Full control
None
This folder, subfolders and files
Allow
Master
Full control
None
This folder, subfolders and files
Allow
Wookie
Full control
None
This folder, subfolders and files
Add
Remove
Edit
Enable inheritance
Replace all child object permission entries with inheritable permission entries from this object
OK
Cancel
Apply
1 item
1 item selected
State: Shared

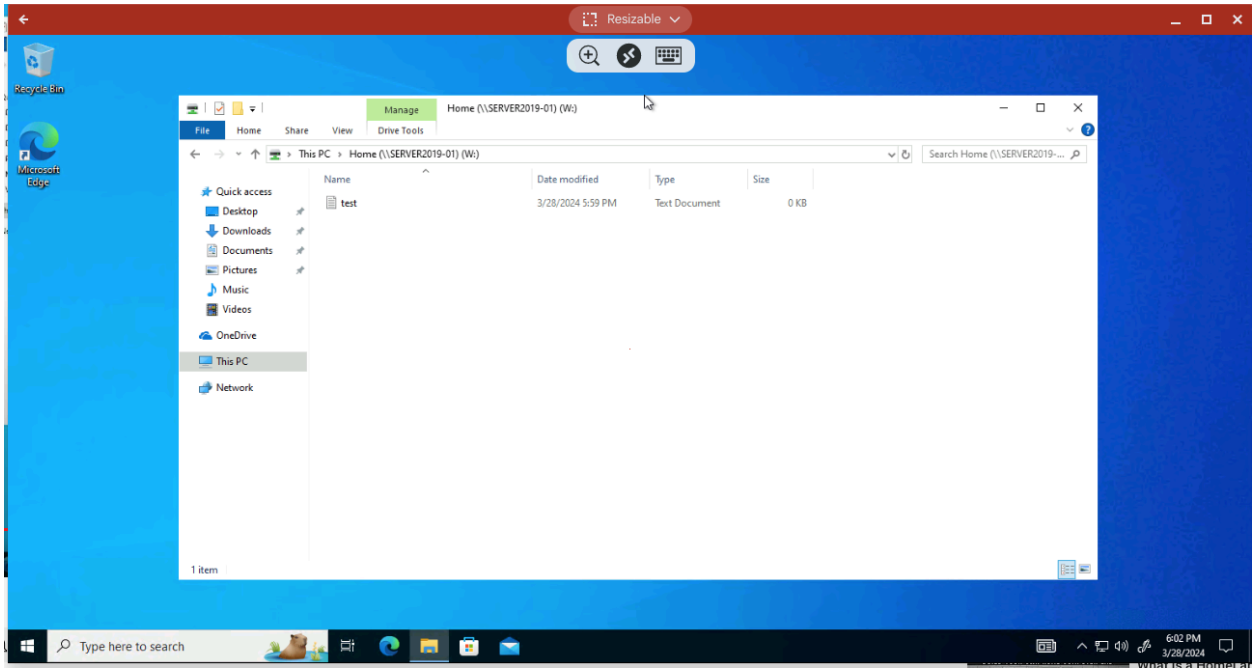

Wookies.folder
File
Home
Share
View
This PC › Windows (C:) › Shares › Wookies.folder
Search Wookies.folder
Quick access
Desktop
Downloads
Documents
Pictures
This PC
Network
Name
Date modified
Type
Size
Home
3/28/2024 5:59 PM
File folder
Home Properties
Network access
Choose people on your network to share with
Type a name and then click Add, or click the arrow to find someone.
Add
Name
Permission Level
Administrators
Owner
Master
Read/Write
Wookie
Read/Write
Read
Read/Write
Remove
I'm having trouble sharing
Share
Cancel
1 item
1 item selected
State: Shared

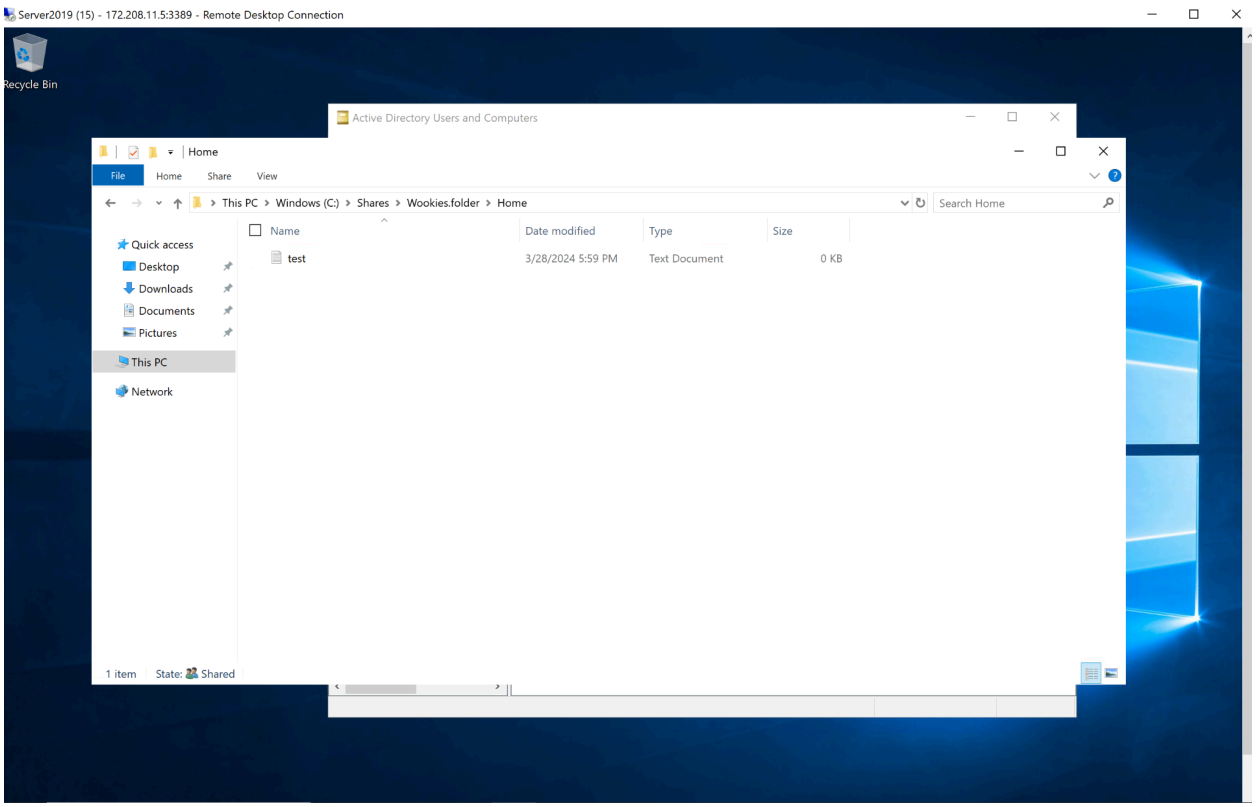

Server2019 (15) - 172.208.11.5:3389 - Remote Desktop Connection
Recycle Bin
Active Directory Users and Computers
File
Action
View
Help
Wookie Properties
Published Certificates
Member Of
Password Replication
Dial-in
Object
Security
Environment
Sessions
Remote control
Remote Desktop Services Profile
COM+
Attribute Editor
General
Address
Account
Profile
Telephones
Organization
User profile
Profile path:
Logon script:
Home folder
Local path:
Connect:
W:
To:
\\SERVER2019-01\Home
OK
Cancel
Apply
Help
Type
Description
Security Group ...
Members in this group c...
Members of this group a...
Members of this group t...
DNS Administrators Group
DNS clients who are per...
Designated administrato...
All workstations and serv...
All domain controllers in ...
All domain guests
All domain users
Built-in account for gues...
Key Distribution Center S...
Built-in account for admi...
Servers in this group can...
Wookies.folder
Quick access
Desktop
Downloads
Documents
Pictures
This PC
Network

Finally, I logged out of the domain power-user on the Windows 10 VM and RDP'd in as Wookie. Upon successful connection, I navigated to the W drive and confirmed access to the shared folder.



Additionally, I demonstrated bidirectional synchronization by adding a test text file on the Windows VM, which promptly appeared on the server as shown below.





This concludes the 2nd part of the Azure Active Directory project. In the 3rd and final part, I'll utilize Powershell to create more accounts and configure the server with DHCP.