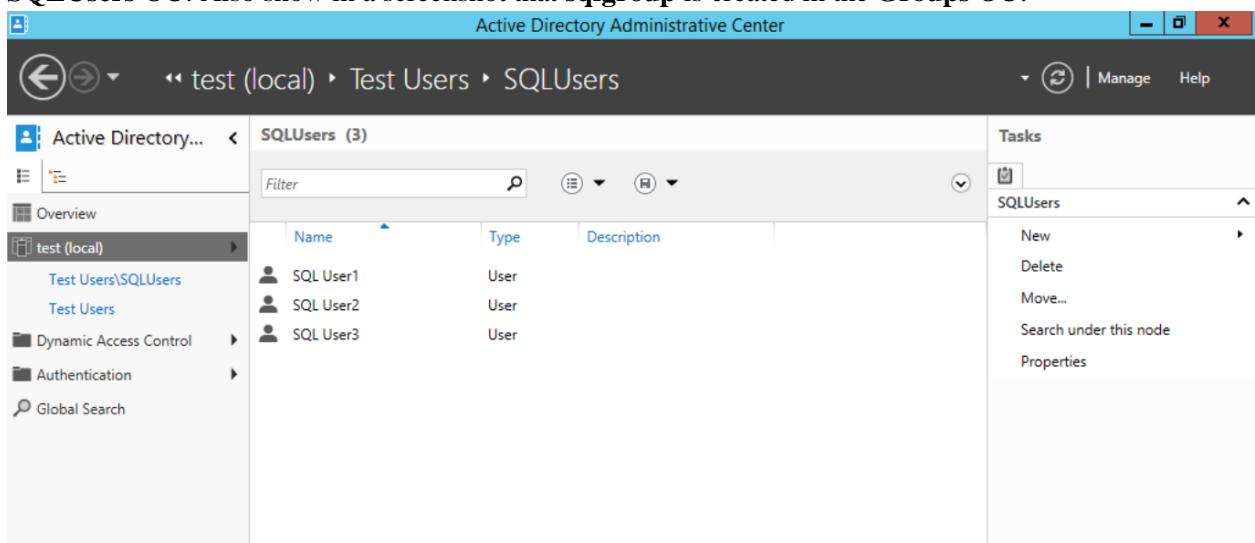


Homework #5: Active Directory and Group Policy Objects

- This is an individual assignment, and is worth 20 points.
- The due date is Thursday, February 27th.
- You need to provide your answers to the “Homework #5 – Tasks.docx” file. Change the file name following the naming convention suggested below.
- Naming convention is as follows: homework, underscore, last name, first initial, and extension (e.g., Homework #5_ImG.docx).
- **If you do not zoom in your screenshots, I will penalize you.**

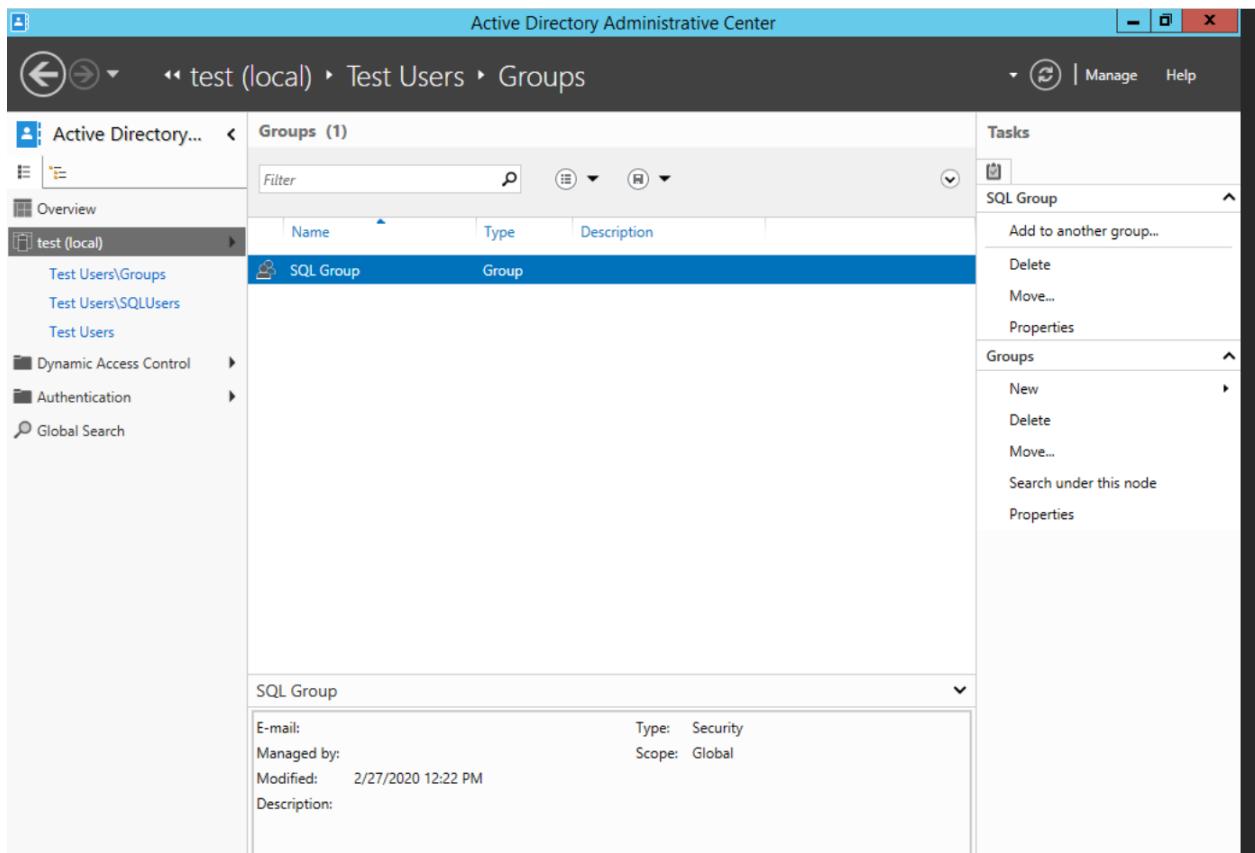
- **(Task 1)** Show in a screenshot that the three domain users (sqluser1, sqluser2, sqluser3) are created in **SQLUsers** OU. Also show in a screenshot that **sqlgroup** is created in the **Groups** OU.



The screenshot shows the Active Directory Administrative Center interface. The left navigation pane shows the following structure: Active Directory... > test (local) > Test Users > SQLUsers. The main pane displays a table titled "SQLUsers (3)" with three entries:

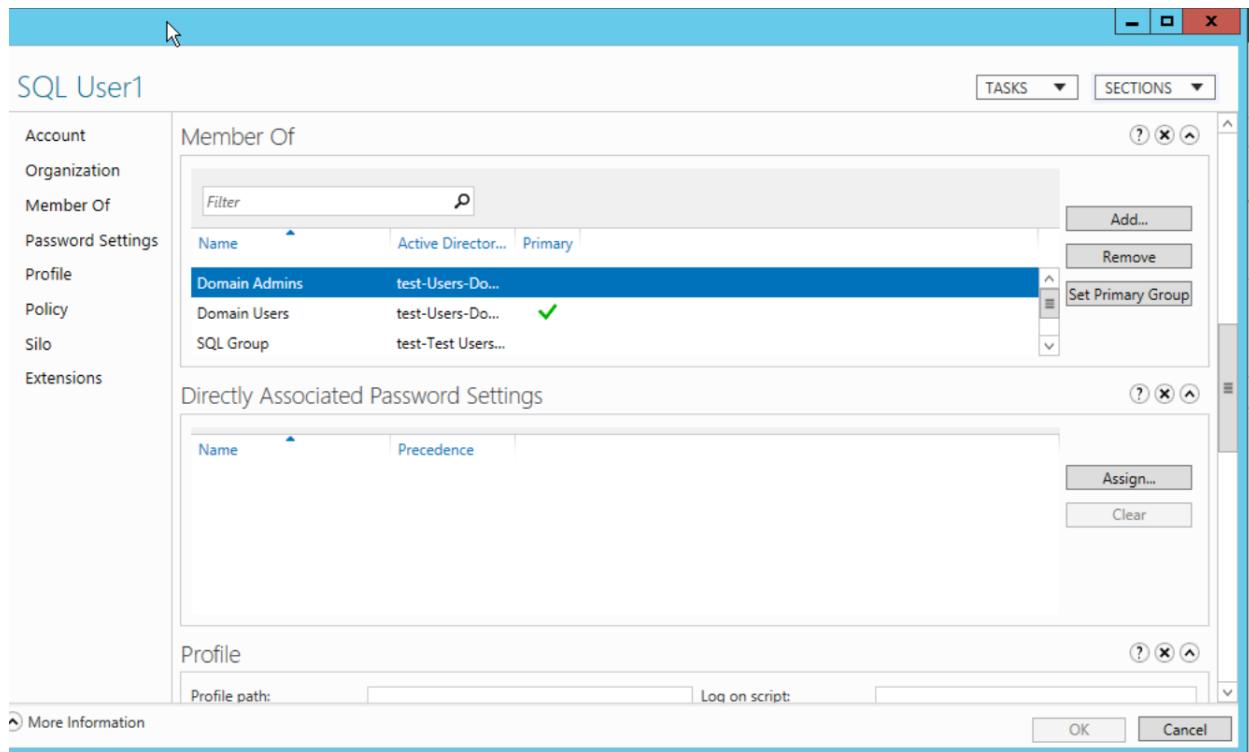
Name	Type	Description
SQL User1	User	
SQL User2	User	
SQL User3	User	

The right pane shows a "Tasks" list with options: New, Delete, Move..., Search under this node, and Properties. The "New" option is highlighted.



The screenshot shows the Active Directory Administrative Center interface. The left navigation pane is open, showing the 'test (local)' container with 'Test Users' selected. Under 'Test Users', 'Groups' is also selected. The main pane displays a table titled 'Groups (1)' with one item: 'SQL Group' (Type: Group). The right pane, titled 'Tasks', shows options for managing groups: 'Add to another group...', 'Delete', 'Move...', and 'Properties'. Below these are options for 'Groups': 'New', 'Delete', 'Move...', 'Search under this node', and 'Properties'. A detailed view of the 'SQL Group' properties is shown in a modal window, including fields for E-mail, Managed by, Modified, and Description, with Type: Security and Scope: Global.

- **(Task 2)** Go to sqluser1 properties and show in a screenshot that sqluser1 is a member of **Domain Admins** and **sqlgroup**.



- **(Task 3)** Run the following query on SQL Server and show in a screenshot that you indeed logged-on with sqluser1.

SQLQuery1.sql - WI...TEST\sqluser1 (54)*

```
SELECT SUSER_NAME()
```

Properties

Current connection parameters

Aggregate Status

- Connection failure: 00:00:00.171
- Elapsed time: 00:00:00.171
- Finish time: 2/27/2020 12:44:56 PM
- Name: WIN-AVPBP9ATULM
- Rows returned: 1
- Start time: 2/27/2020 12:44:55 PM
- State: Open

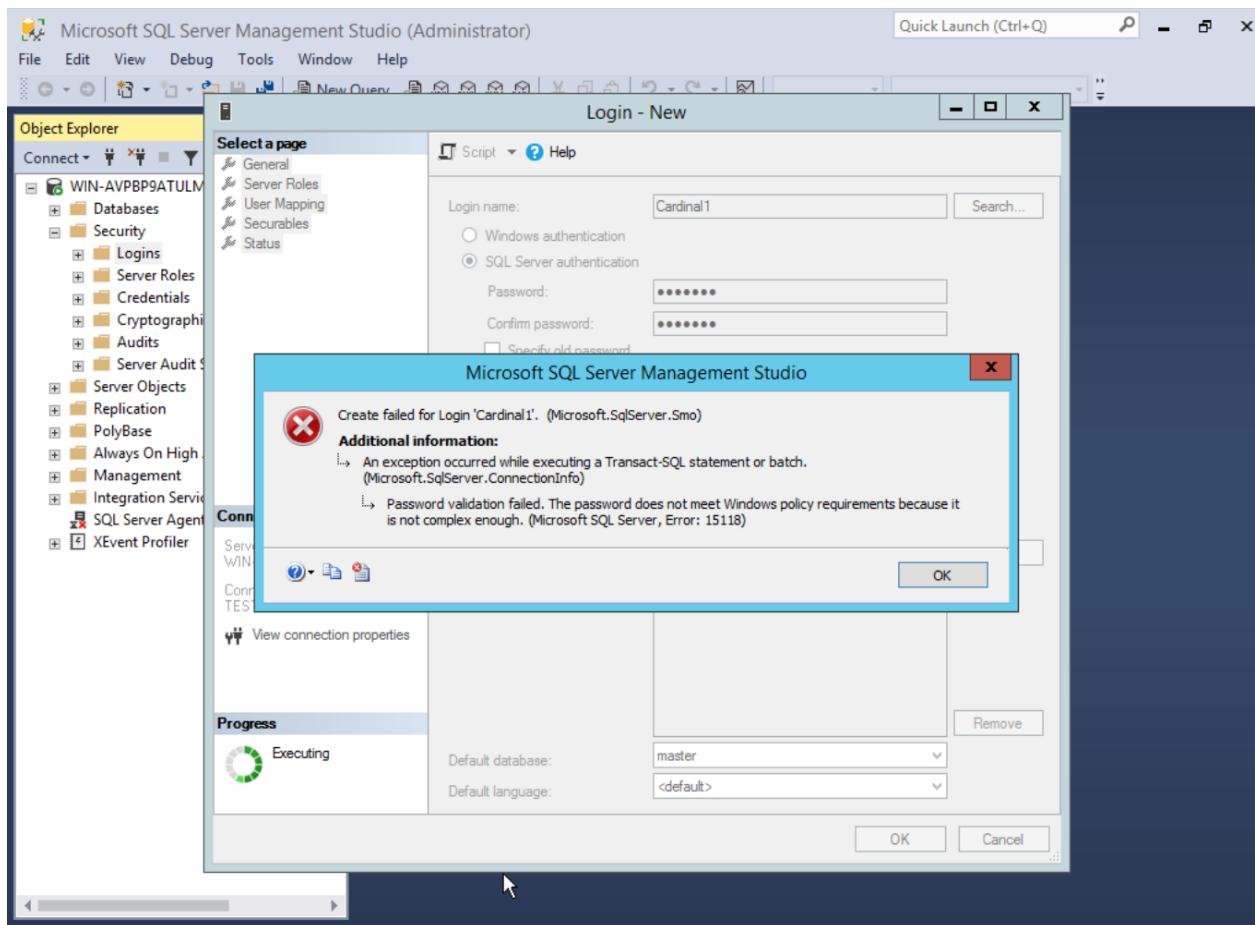
Connection

- Connection name: WIN-AVPBP9ATULM (1)

Connection Details

- Connection elapsed: 00:00:00.171
- Connection encrypt: Not encrypted
- Connection finish: 2/27/2020 12:44:56 PM
- Connection rows: 1
- Connection start: 2/27/2020 12:44:55 PM

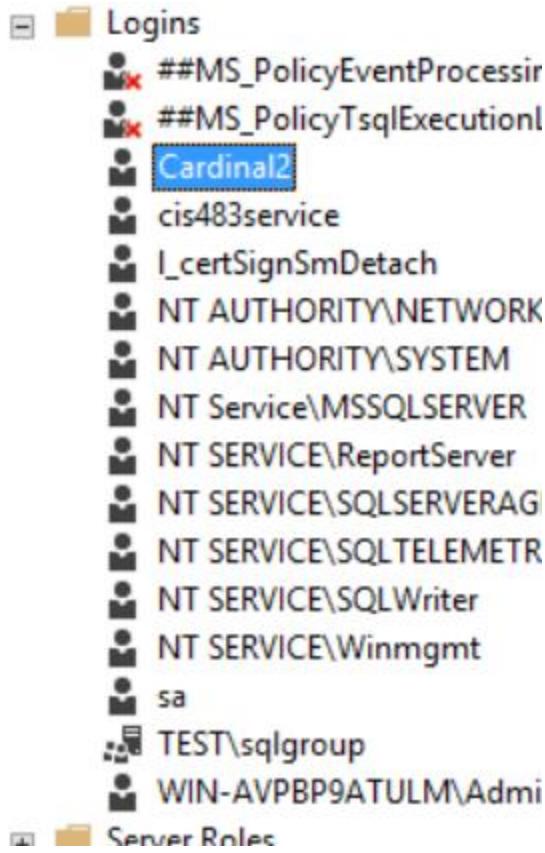
- **(Task 4)** Logon to SQL Server. Create a login “Cardinal1”. Select **SQL Server authentication**. Enter the password “1234567”, and show in a screenshot that the login cannot be created. Explain why?



The reason that this account can't be created is due to the password not meeting the criteria. The password meets the criteria of being required to be 7 characters long, but does not meet the complexity requirements (e.g., numerical characters, upper case letter, lower case letter, special characters).

- **(Task 5)** Create a login “**Cardinal1**”. Select **SQL Server authentication**. Enter the password “1234567”, and show in a screenshot that the login is created. Explain why this was possible. Explain also the relationship between the GPO and the SQL Server password policy.

GPO's or Group Policy Objects control user restrictions, requirements, and behaviors of user accounts. Since we changed the password policy for the windows users accounts, any user created would have to meet that policy, including users created under SQL Server.



- **(Task 6)** Create a new AD account using the command **New-ADUser** explained on pp 12-13. Show in a screenshot that the account is indeed created (example below). Also, attach a screenshot that displays the PowerShell execution.

```
PS C:\Users\Administrator> New-ADUser -Name:"Adam Schweitzer" -GivenName:"Adam" -Surname:"Schweitzer"
PS C:\Users\Administrator>
```

Active Directory Administrative Center

test (local) > Test Users > SQLUsers

Active Directory... Overview test (local) Test Users\SQLUsers Users Test Users\Groups Dynamic Access Control Authentication Global Search

SQLUsers (4)

Name	Type	Description
Adam Schweitzer	User	
SQL User1	User	
SQL User2	User	
SQL User3	User	

Tasks

Adam Schweitzer (Disabled)

- Reset password...
- View resultant password settin...
- Add to group...
- Enable
- Delete
- Move...
- Properties

SQLUsers

- New
- Delete
- Move...
- Search under this node
- Properties

Adam Schweitzer (Disabled)

User logon: A.Schweitzer	Expiration: <Never>
E-mail:	Last log on: <Not Set>
Modified: 2/27/2020 1:29 PM	
Description:	

Summary

WINDOWS POWERSHELL HISTORY