# User Management and Authentication



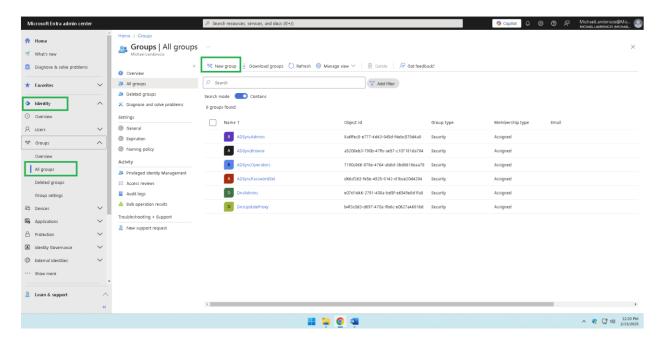
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## **Objective**

In Project 2 deliverable, you implemented a strategy for user identity. Managing user identity is equally important as implementing it. Proper management of identity ensures that users have access to resources they need to perform their job functions and accounts are properly secured. In this deliverable, you will demonstrate the creation of user groups, manage Role-Based Access Control (RBAC) roles, view user login activity, the configuration of Azure AD self-service password reset policy, and create a customed banned password.

### **Part 1: Create Groups**

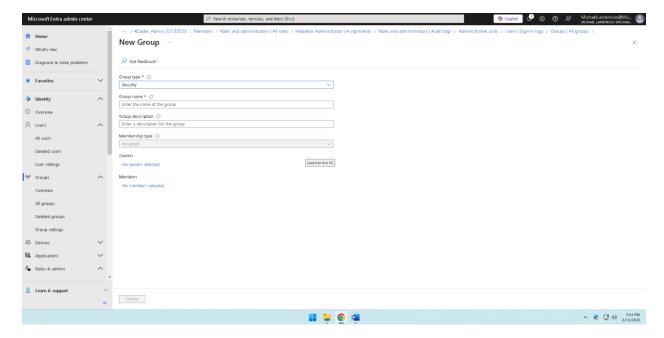
To start, login into Microsoft Entra admin center with your onmicrosoft login account. From the Identity section on the far left, choose "Groups", then "All Groups". In the main window, you are then going to click on "New Group" on the top, as shown below:



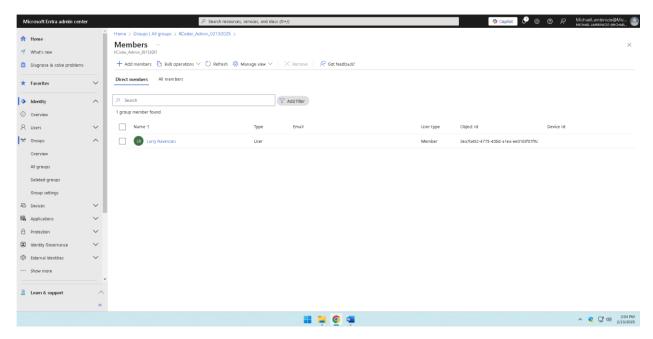
Next, you will fill in the Group name, Group description, and if applicable, and answering "Yes" to Microsoft Entra roles can be assigned to the group. For group name, you will type

**KCoder\_Admin\_current date (to be changed with today's date)**. And then description will read "Group to Manage M365 Portal". In the assigned members link, click it and it will take you to the members screen, where you will have to hit add member and check off <u>Larry Ravenson</u> to add him. Then choose save so he will be added to the group. After this is created, you will create another group with the same process, except the second group name will be **KCoder\_Support\_current date**. When you add a member to this group, choose <u>Susan Pandya</u> for this group, shown below:

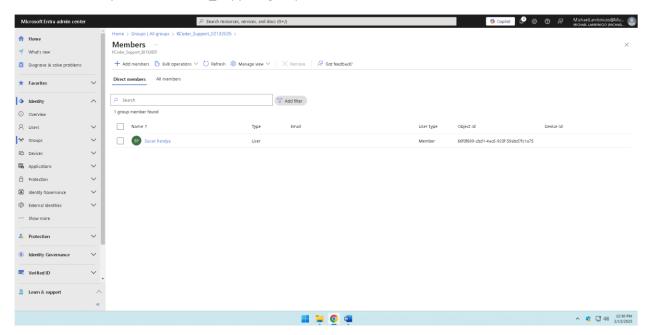
Add new group specifics:



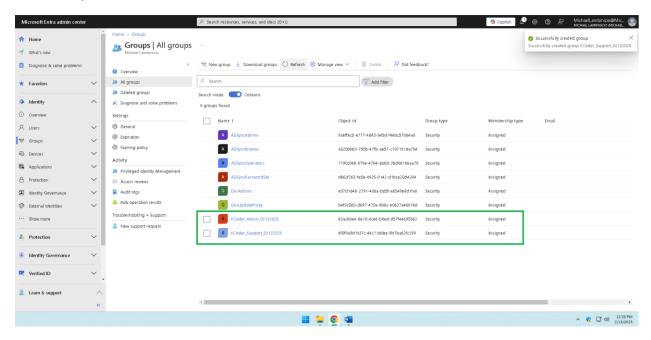
# Add Larry Ravenson to the KCoder\_Admin group.



## Add Susan Pandya to the KCoder\_Support group.

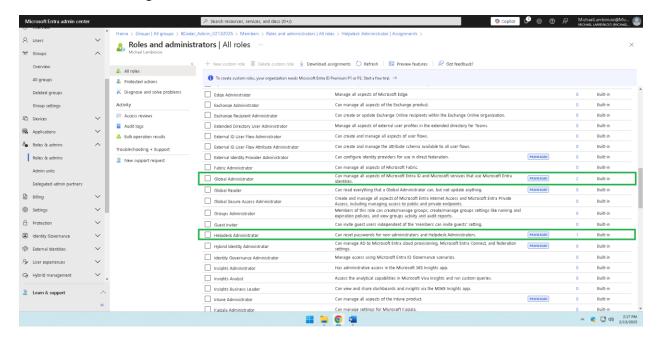


After the groups are created, they should populate in the All groups section. (You may need to refresh the screen.)

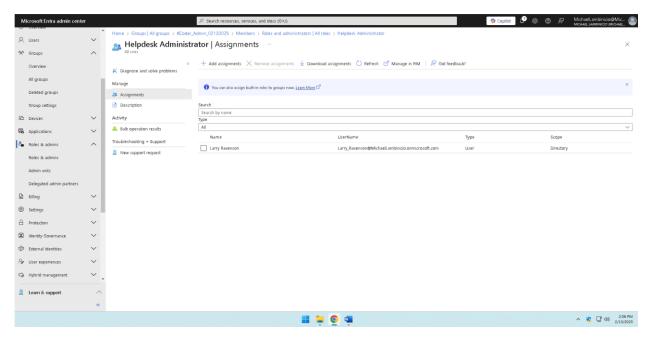


Part 2: Manage Role-Based Access Control (RBAC) Roles

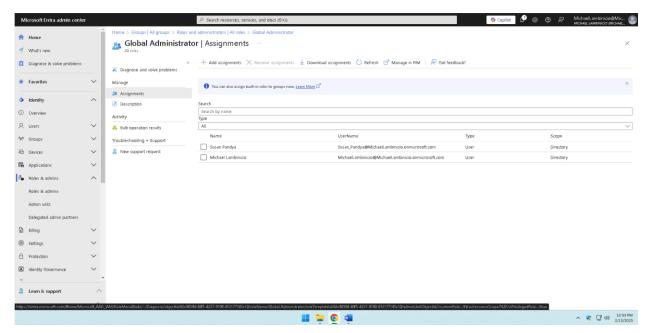
In this part, you are going to assign roles for users in which they will be responsible for. To do this, you will click on "Roles and admin" on the left pane under the Identity section. It will then populate all the roles available to assign for each member, as shown below:



Above, we will be adding Larry Ravenson to the Helpdesk Administrator role and Susan Pandya to the Global Administrator role. To add Larry, you will check Helpdesk Administrator and click on "add assignment". Find Larry Ravenson and check his name and choose add, shown below:



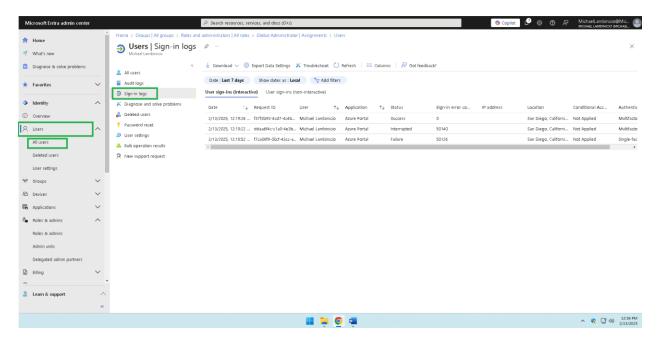
Then, you will do the same for Susan Pandya for the Global Administrator role, as shown below:



This in general enables organizations to apply grandular controls, reducing the attack surface and minimizing the potential impact of security incidents. This approach safeguards sensitive data and ensures the integrity of critical infrastructure components. [1]

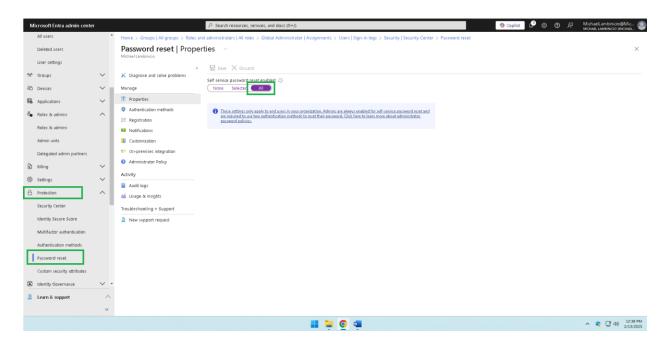
### Part 3: Examine User Login Activity

To do this, you will have to view "all users" in the users section on the left pane under identity. In the main window, you will then click on sign-in logs to view the sign-in activity for the last 7 days, as shown below:



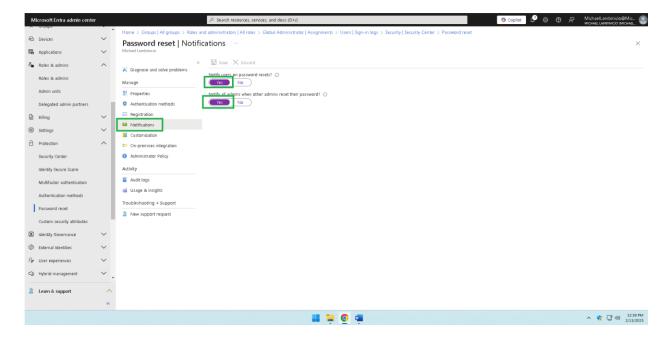
#### Part 4: Entra ID Password Reset

To apply password reset, you will click on "Protection" in the left pane under Identity, and choose "Password reset." In the main window, you will have three options, choose "All". Click save to apply your new settings, shown below:



**Part 5: Password Reset Notification** 

If you would like to receive notifications for the password reset, in the same window from part 4, you would then choose "notifications" to show if you would like notify the users and admin of resetting, shown below:



Part 6: Authentication

#### The Opportunity: Basic Authentication and Moden Authentication

Using basic authentication would be more vulnerable to attack as it may only require a simple password to login, making it easy for hackers to infiltrate. They like to intercept any data transmitted to gain access to valuable information so they can use it for profit. In the modern authentication, it is now using multi-factor authentication, where you will either have a token (smart card) that has identity certificates designated to you as part of the authentication process, then you will need to either type a password or pincode to log in. Another method is after you type your password in the login section, it will send you an e-mail or notification on another device to use and enter back into the login section to verify you are the actual person. It has even expanded to biometrics where after you log in, you provide facial recognition or a fingerprint scan to verify you are the actual person logging in. These methods are more secure and have a higher grade of protection for any organization that holds valuable information daily.

#### References

[1] M. Buenning, "Understanding and implementing azure RBAC," NinjaOne, https://www.ninjaone.com/blog/understanding-and-implementing-azure-rbac/ (accessed Feb. 17, 2025).

#### Resources

Azure Active Directory Groups: <a href="https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-groups-create-azure-portal">https://docs.microsoft.com/en-us/azure/active-directory-groups-create-azure-portal</a>

Azure AD Roles: <a href="https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/directory-manage-roles-portal">https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/directory-manage-roles-portal</a>

Azure Self Service Password Reset - <a href="https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-sspr-deployment">https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-sspr-deployment</a>

Azure Active Directory Banned Passwords: <a href="https://docs.microsoft.com/en-us/azure/active-directory/authentication/tutorial-configure-custom-password-protection">https://docs.microsoft.com/en-us/azure/active-directory/authentication/tutorial-configure-custom-password-protection</a>