# Previledged identity management (Task)

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## **Objective of the task**

Perform a privileged identity management task and assign users roles on subscription and AD (Active Directory). Users must request the roles that are assigned to it and the role is approved by the specific approver.

#### What is PIM

Privileged Identity Management (PIM) in Azure is a service that helps organizations manage, control, and monitor access to important resources within their Azure environment. It focuses on securing privileged identities, such as administrators and other high-level users, who have access to critical Azure resources and configurations. By using PIM, organizations can minimize the risk of unauthorized access, potential

misuse of privileges, and better adhere to security and compliance requirements.

## **Key Features of PIM**

Just-In-Time (JIT) Access: PIM allows administrators to assign time-bound, on-demand access to specific Azure roles. This means that users won't have constant privileged access but can activate it for a defined period when needed, reducing the attack surface.

**Time-Bound Access**: Instead of having constant privileged access, users can be granted elevated permissions for a limited time. After the specified time expires, their privileges are automatically revoked until they request access again.

**Approval Workflow**: For certain high-privileged roles, PIM can enforce an approval process. When a user requests access to a privileged role, an assigned approver must review and approve the request before the user gains the elevated permissions.

**Privileged Role Auditing**: PIM provides detailed auditing and logging capabilities, allowing organizations to track who activated privileged roles,

when, and for what purposes. This helps in monitoring and identifying potential security risks.

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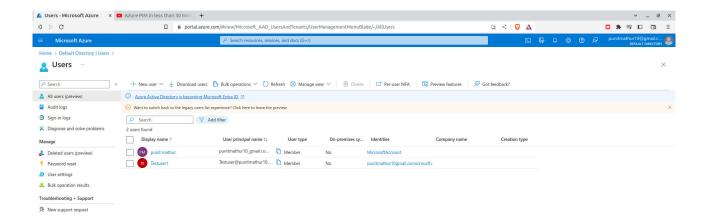
Just-Enough-Administration (JEA): PIM helps enforce the principle of least privilege by limiting the scope of administrative actions to only what is necessary for users to perform their specific tasks.

**Security Reports and Alerts**: The service provides security reports and alerts to notify administrators of any suspicious or potentially risky activities related to privileged roles.

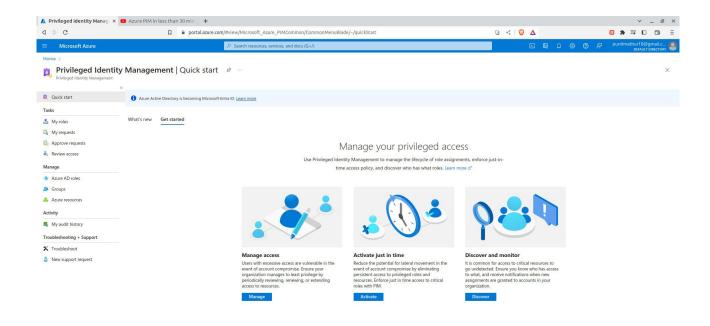
Azure AD Integration: PIM seamlessly integrates with Azure Active Directory (Azure AD), which is the identity and access management service for Azure. It builds upon the existing Azure AD roles and enhances them with privileged access management features.

## **Practical Implementation of the task**

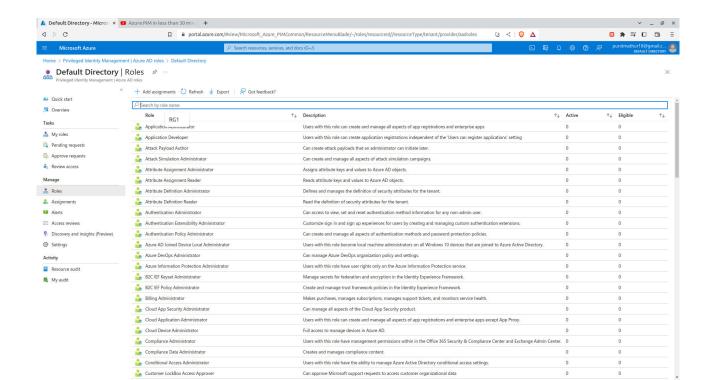
#### Create a user



After creating a user go to Previledged identity management. You can directly search for PIM in search bar of azure portal.

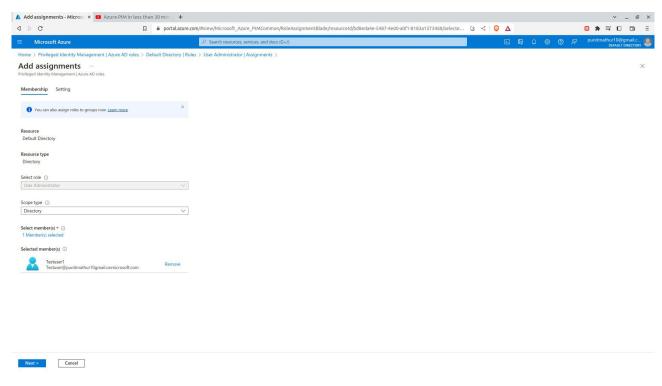


# Now Go to Roles in PIM (Home > PIM | Azure AD Roles > Default Directory )

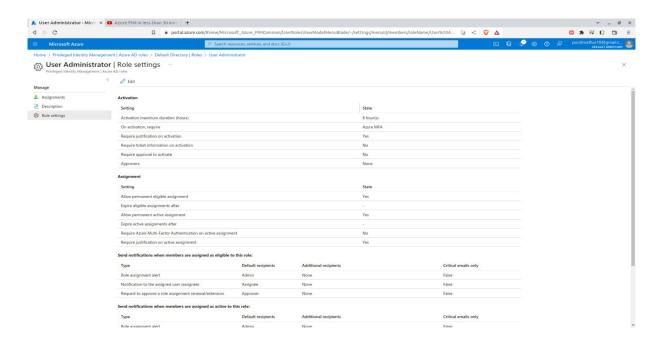


Assign roles as you wish (Here for use case we've chosen User Adminstrator )

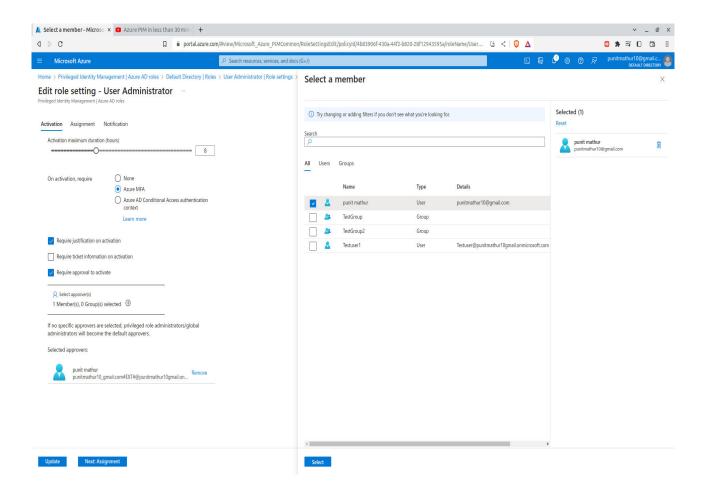
Home > PIM | Azure AD Roles > Default Directory | Roles > User Administrator | Assignments



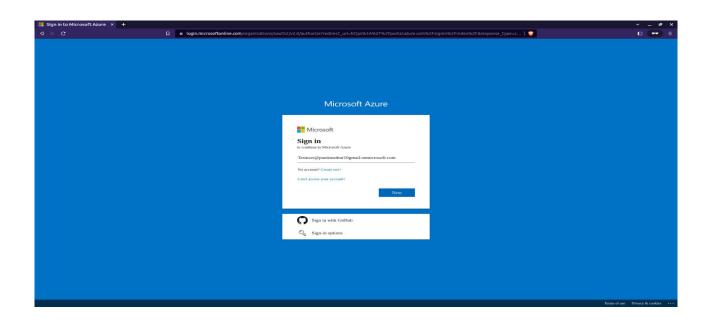
#### Now click on edit in role settings

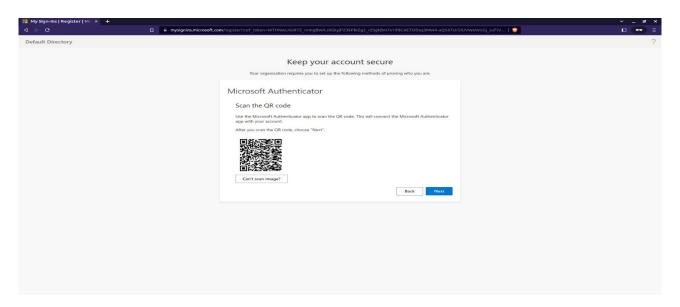


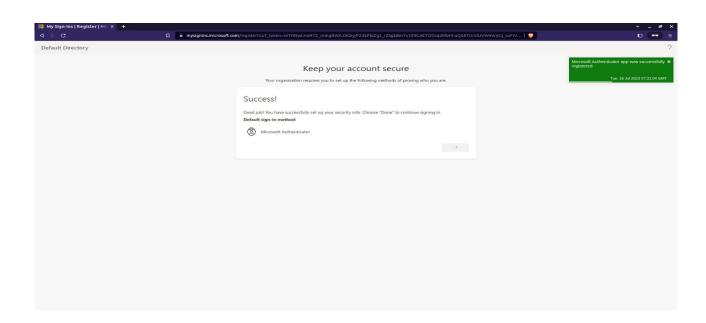
Now Click on Require approval to activate. Adding this feature will make sure that anytime a request comes from user end, it first gets approval from global admin. For extra security enable Multi Factor Authentication (Azure MFA). Now click on update.



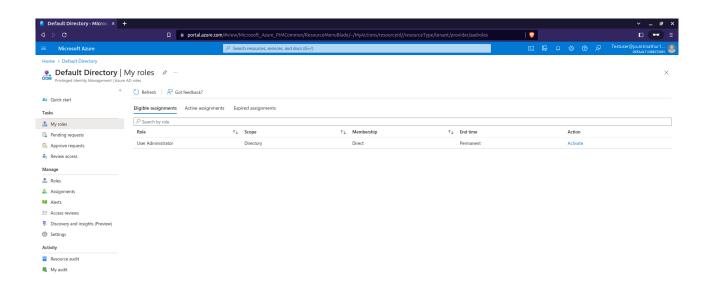
Now login to your Test User account using MFA. The first time MFA will make you scan a QR code and make sure that the right user is logged in it do this by using Microsoft Authenticator app. Enabling MFA increases the security and mantain a certain level of integrity in the child users.



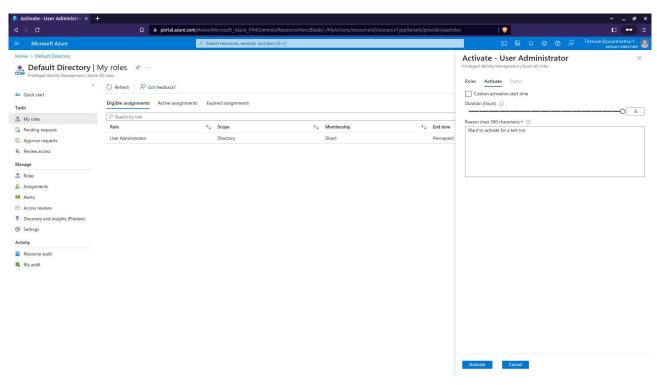


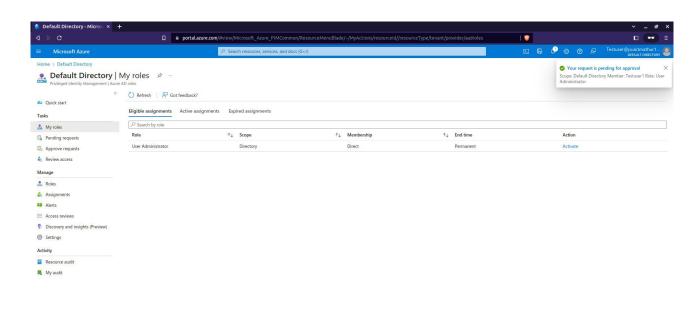


Now after login into test user, go to my roles to check that if this user have eligible assignments. Here eligible assignments basically means that the assginment eligible for request to global adminstrator. In eligible assignment we can clearly see that the test user have showns user adminstrator role.

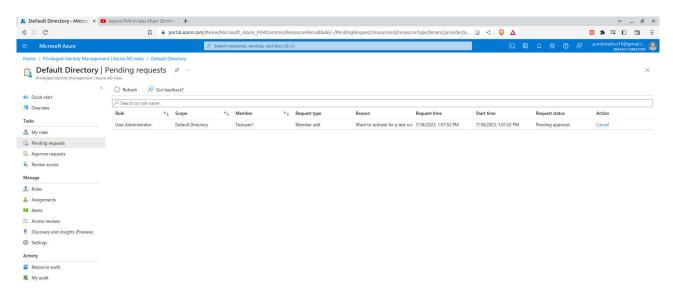


Now click on Activate in action section. The use of this feature is after clicking it, the test user will send an approval request to the global adminstrator so that the test user can use the assigned role.

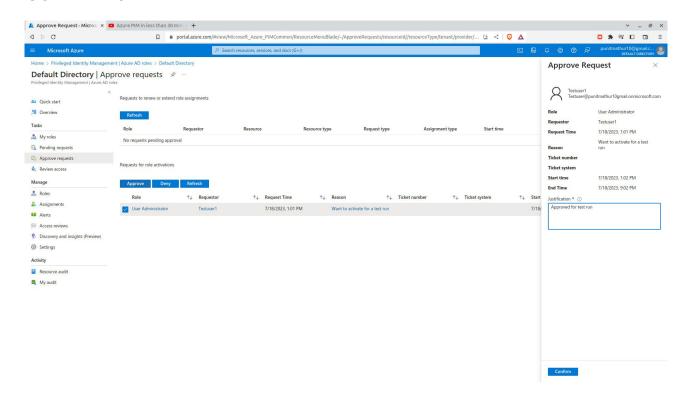




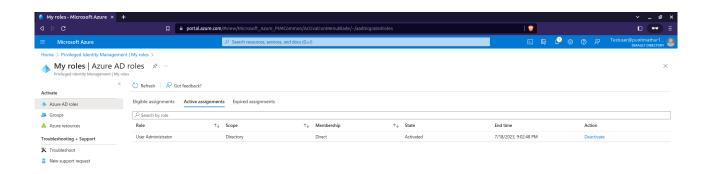
Now go and check in your Global admin account, a pending request will be there in PIM section.



Now Check in Approve requests section, select the user adminstrator and click on approve and then confirm.



Now go check in your test user that the user adminstrator role has been shifted from eligible assignment to active assignment. So our main objective is completed.



#### **Conclusion:**

So basically what we really wanted to do was we wanted that every user created on our root subscription, when assigned roles then they should get approvals first from global adminstrator and then only the users can use the assigned roles on their end. This was done with the help of previledged identity management in azure portal.

#### **Refrences:-**

- 1) <a href="https://chat.openai.com">https://chat.openai.com</a> For writing the keyfeatures part of this document.
- 2) <a href="https://www.youtube.com">https://www.youtube.com</a> For Learning about some major implentation of this task.
- 3) <a href="https://learn.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-resource-roles-assign-roles">https://learn.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-resource-roles-assign-roles</a> For learning purpose of Previledged Identity Management.
- 4) Celebal Technologies COE Training For Learning the key concepts and basic understanding of azure portal.