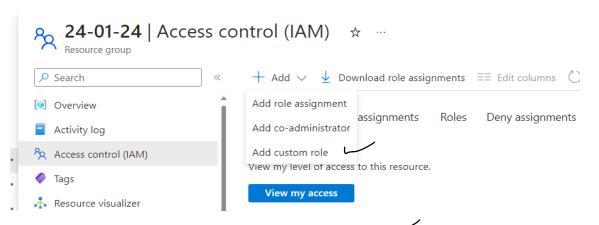
Assignment 1

Tasks To Be Performed:

- 1. Create a custom role which can view, start and stop VMs
- 2. But should not be able to do anything else

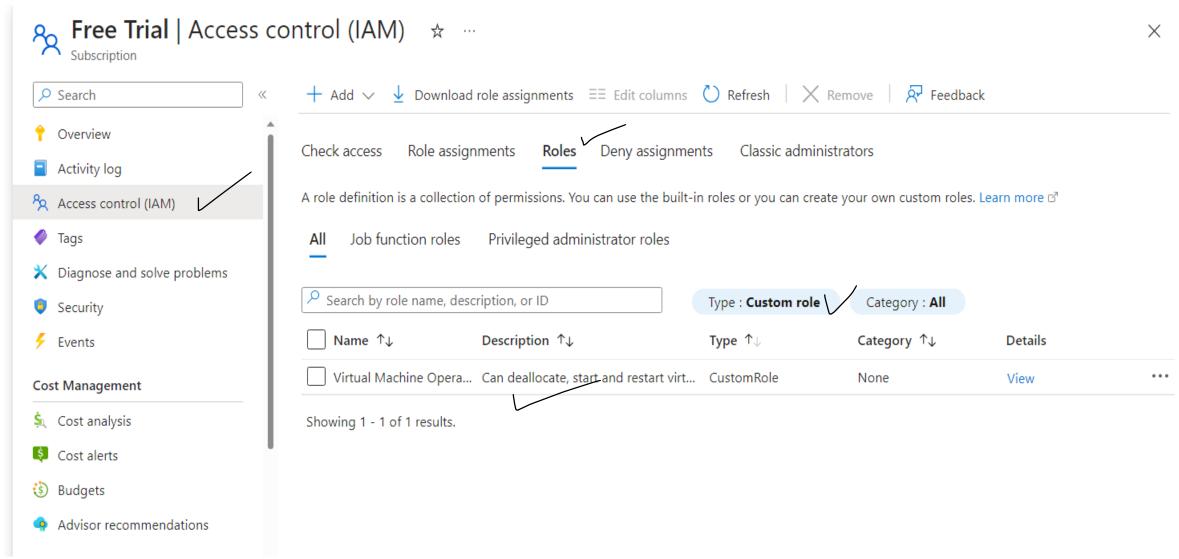
Create a Resource group – IAM – Add CUSTOM Roles or Create Role definition upload this into Azure cli- the upload file should be in Json format.



```
FS /home/kapil> az role definition create --role-definition newrole.json
Readonly attribute type will be ignored in class <class 'azure.mgmt.authorization.v2022 05 01 preview.models. models py3.RoleDefinition'>
  "assignableScopes": [
    "/subscriptions/dfe5760d-8ca2-4f3e-af83-62c16886c3b7"
                                                                       az role definition create - -role-definition newrole.json
 ],
"createdBy": null,
  "createdOn": "2024-01-24T06:05:23.655074+00:00",
  "description": "Can deallocate, start and restart virtual machines.",
  "id": "/subscriptions/dfe5760d-8ca2-4f3e-af83-62c16886c3b7/providers/Microsoft.Authorization/roleDefinitions/9df2f298-4163-45ca-8114-556359013424"
  "name": "9df2f298-4163-45ca-8114-556359013424",
  "permissions": [
      "actions": [
        "Microsoft.Compute/*/read",
        "Microsoft.Compute/virtualMachines/start/action",
        "Microsoft.Compute/virtualMachines/restart/action",
        "Microsoft.Compute/virtualMachines/deallocate/action"
      "condition": null,
      "conditionVersion": null,
      "dataActions": [],
      "notActions": [],
      "notDataActions": []
  ],
"roleName": "Virtual Machine Operator",
  "roleType": "CustomRole",
  "type": "Microsoft.Authorization/roleDefinitions",
  "updatedBy": "4da3a476-d4e5-457e-9e41-540292f4bcc7",
  "updatedOn": "2024-01-24T06:05:23.655074+00:00"
PS /home/kapil>
```

Under subscription – IAM – custom role

e Trial



```
"Name": "Virtual Machine Operator",
"IsCustom": true,
"Description": "Can deallocate, start and restart virtual machines.",
"Actions": [
 "Microsoft.Compute/*/read",
 "Microsoft.Compute/virtualMachines/start/action",
 "Microsoft.Compute/virtualMachines/restart/action",
 "Microsoft.Compute/virtualMachines/deallocate/action"
"NotActions": [],
"AssignableScopes": [
 "/subscriptions/subscription id"
```

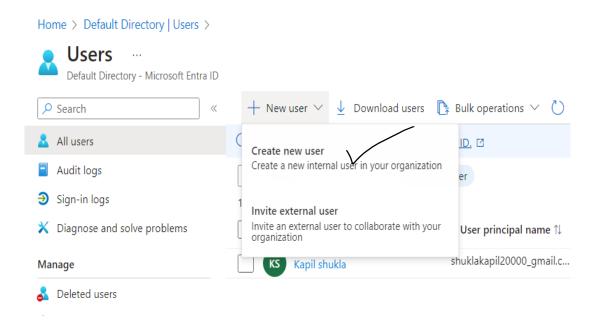
This is the Role definition template for creating the custom role.

Assignment 2

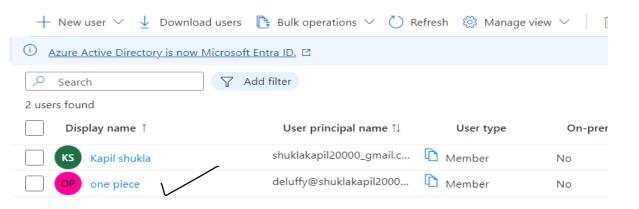
Tasks To Be Performed:

- 1. Create a new user
- 2. Assign the previously created user this role

Search for Microsoft Entra id – users – New user



Copy the username and password for login into user account.



Home > Default Directory | Users > Users >

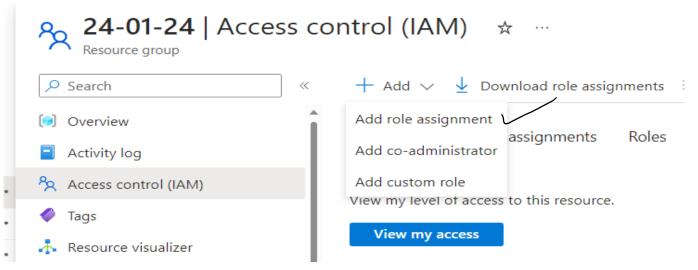
Create new user

Create a new internal user in your organization

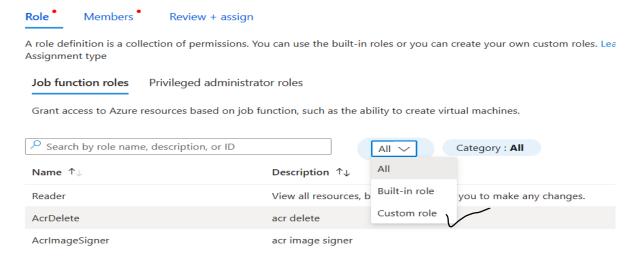
Basics **Properties** Assignments Review + create Create a new user in your organization. This user will have a user name like alice@contoso.com. Learn more 🔼 Identity User principal name * deluffy shuklakapil 20000 gmail.... Domain not listed ☑ deluffy Mail nickname * Derive from user principal name Display name one piece • • • • • • • • • • Password * Auto-generate password Account enabled (i)

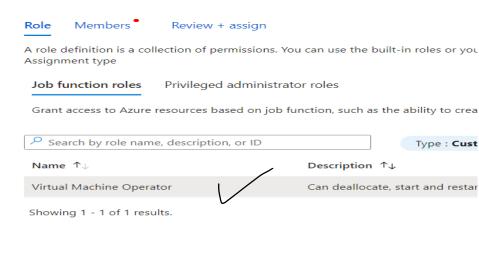
Review + create < Previous Next: Properties >

Again go back in IAM – Add role assignment- Custom role- select role -next



Review + assign

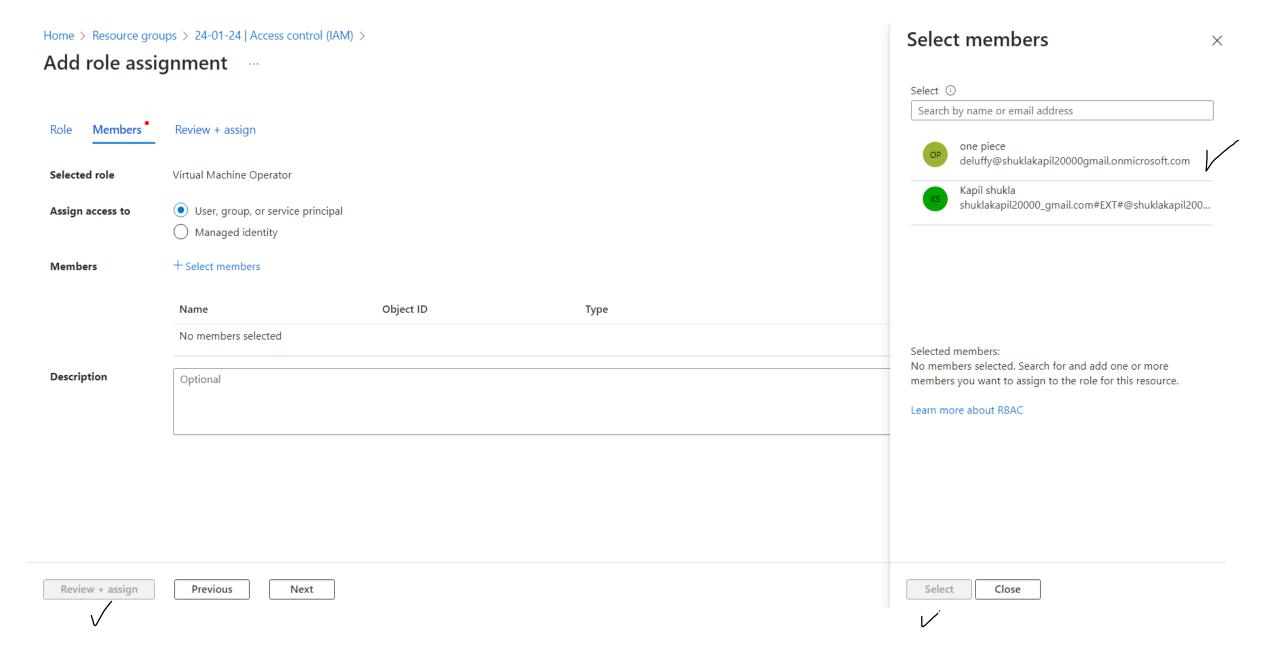




Previous

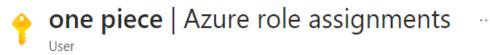
Next

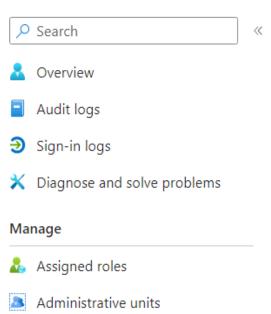
Select members-Review and Assign



Azure entra id –users-Azure role assignment role

Home > Default Directory | Users > Users > one piece





Groups

Licenses

Devices

Applications

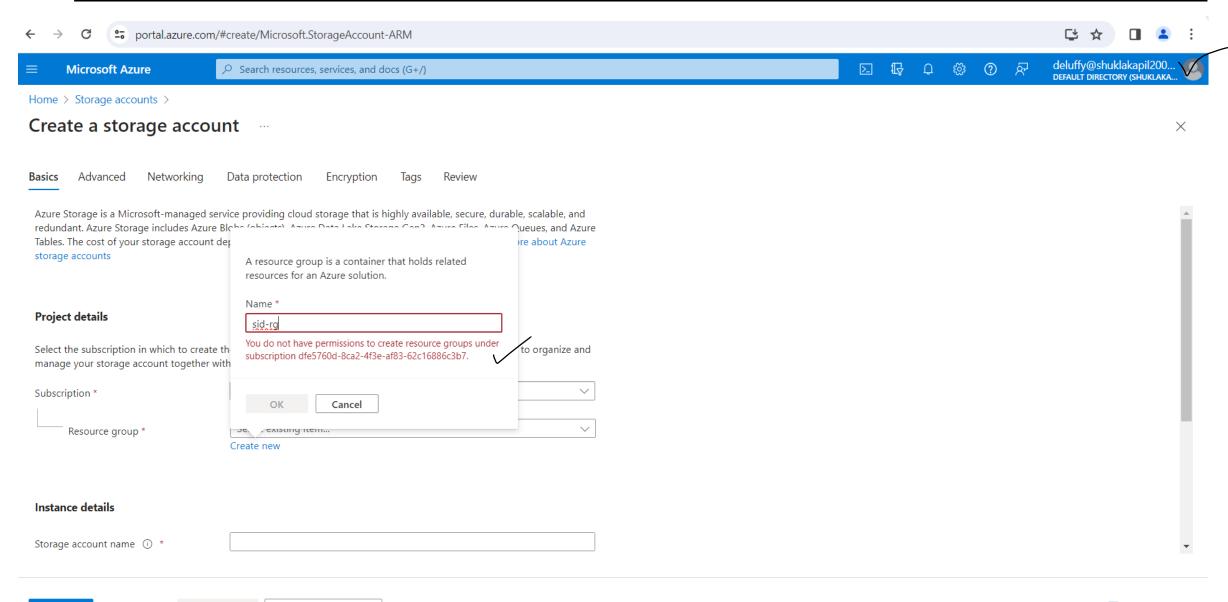
Azure role assignments



Now using the credentials we have copy earlier login into created user account-

open new browser and login.

As we login into user account, want to create a resource group but we don't have permission to do this task.



< Previous

Review

Next : Advanced >



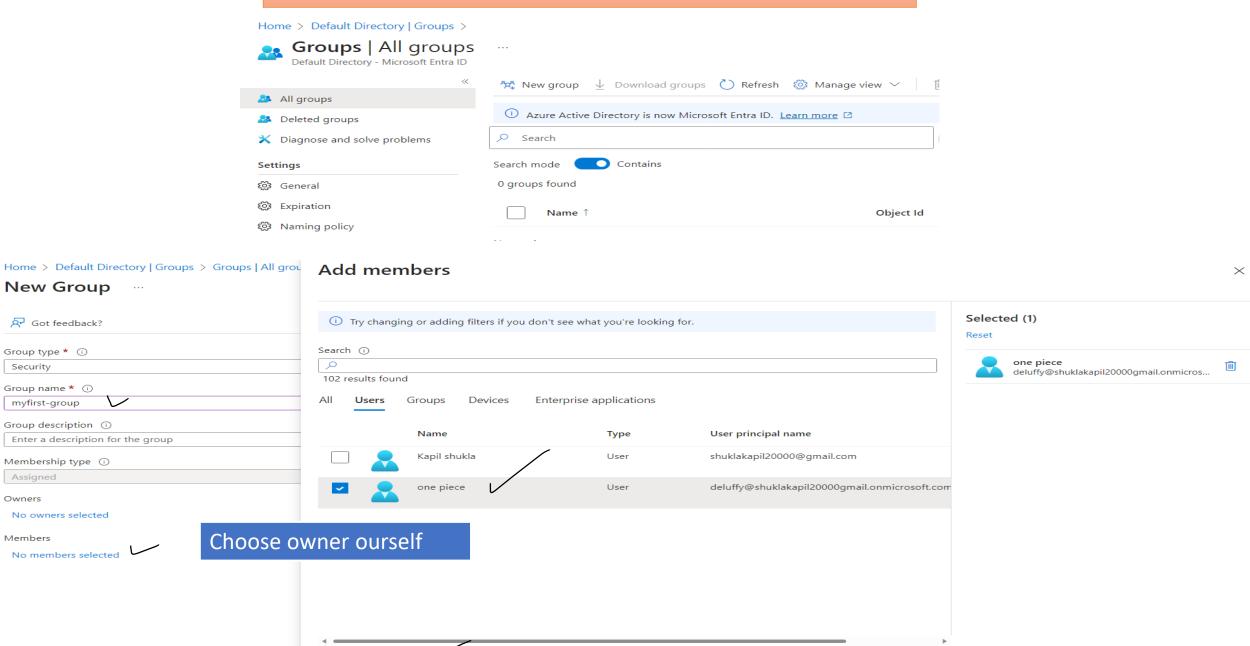
Assignment 3

Tasks To Be Performed:

- Create a user group
- 2. Attach the role created in Assignment 1 to this group
- Add new users to this group and check whether the permissions get assigned or not

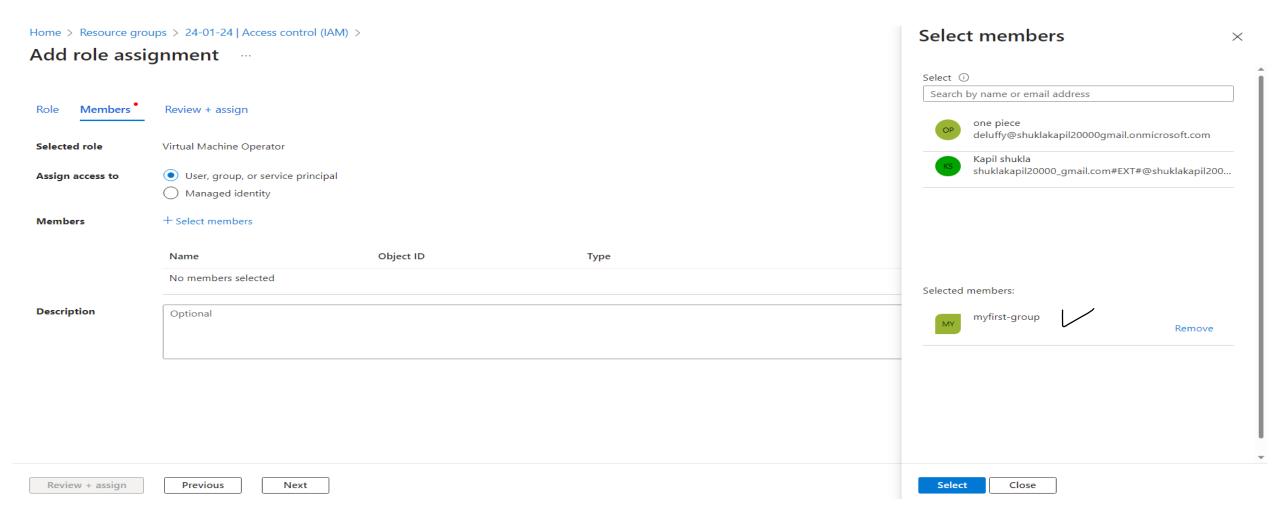
Again go back to Microsoft entra id – Group- new group

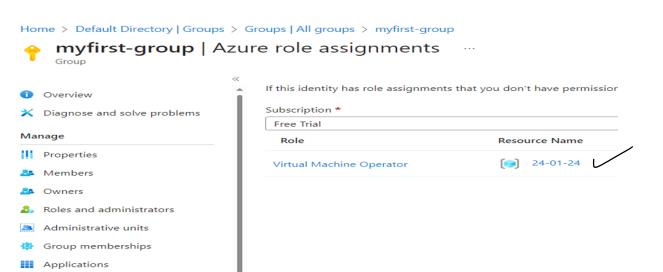
Create





For assigning the role we earlier created to this group we need to go back in IAM – Add role assignment – Custom role – next – instead of selecting the members choose the group.

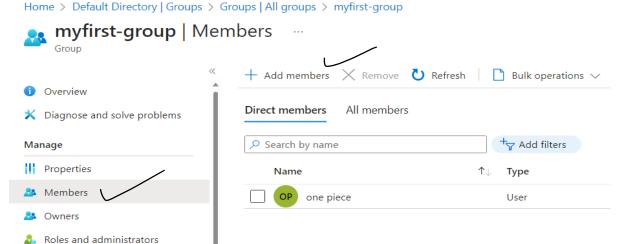




Go back to your group- members- Add members

Azure role assignments

Administrative units



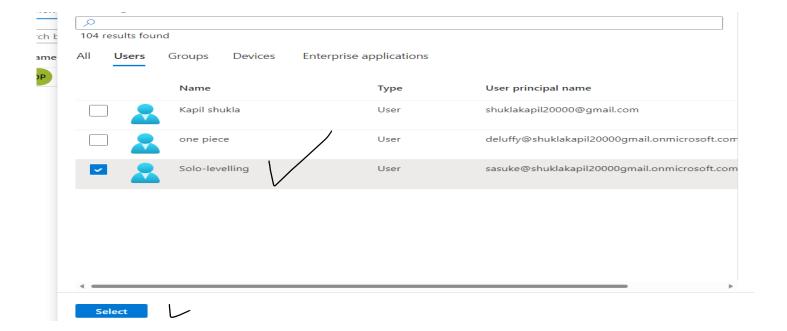
Home > Default Directory | Users > Users >

Create new user

Create a new internal user in your organization

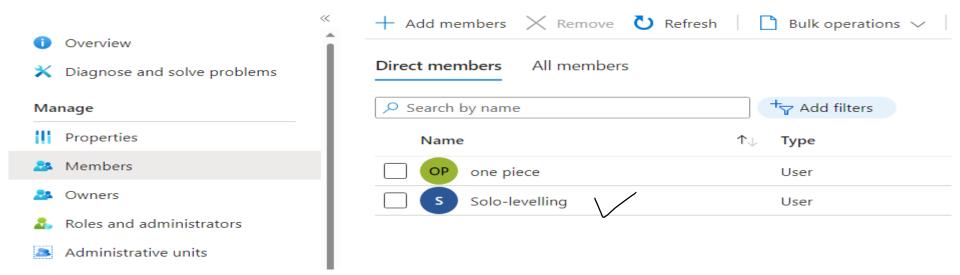
Basics **Properties** Assignments Review + create Create a new user in your organization. This user will have a user name like alice@contoso.com. Learn more 🖸 Identity User principal name * shuklakapil20000gmail... sasuke Domain not listed ☑ sasuke Mail nickname 3 ✓ Derive from user principal name Display name Solo-levelling Password * Auto-generate password Account enabled (i)





Home > Default Directory | Groups > Groups | All groups > myfirst-group



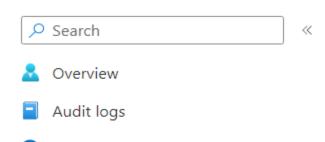


Home > Default Directory | Groups > Groups | All groups > myfirst-group | Members > Solo-levelling



Solo-levelling | Azure role assignments

User

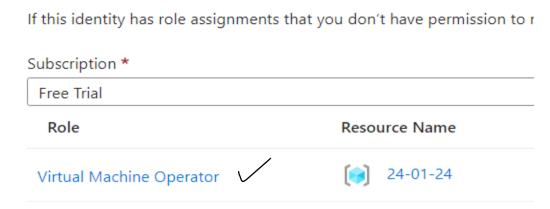


- Sign-in logs
- X Diagnose and solve problems

Manage

- Assigned roles
- Administrative units
- Groups
- Applications
- Licenses
- Devices





The created role already assigned.