<u>Lab</u> <u>requirements</u>

Lab scenario

Student lab manual

<u>Objectives</u>

Estimated timing: 30 minutes

Architecture diagram

Instructions

Lab requirements

This lab requires permissions to create Azure Active Directory (Azure AD) users, create custom Azure Role Based Access Control (RBAC) roles, and assign these roles to Azure AD users. Not all lab hosters may provide this capability. Ask your instructor for the availability of this lab.

Lab 02a - Manage Subscriptions and RBAC

Lab scenario

In order to improve management of Azure resources in Contoso, you have been tasked with implementing the following functionality:

- creating a management group that would include all of Contoso's Azure subscriptions
- granting permissions to submit support requests for all subscriptions in the management group to a designated Azure Active Directory user. That user's permissions should be limited only to:
 - o creating support request tickets
 - viewing resource groups

Note: An <u>interactive lab simulation</u> is available that allows you to click through this lab at your own pace. You may find slight differences between the interactive simulation and the hosted lab, but the core concepts and ideas being demonstrated are the same.

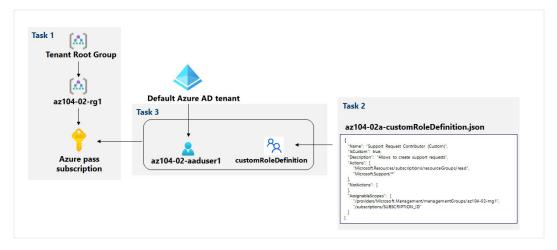
Objectives

In this lab, you will:

- Task 1: Implement Management Groups
- Task 2: Create custom RBAC roles
- Task 3: Assign RBAC roles

Estimated timing: 30 minutes

Architecture diagram



Instructions

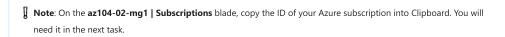
Task 1: Implement Management Groups

In this task, you will create and configure management groups.

- 1. Sign in to the **Azure portal**.
- 2. Search for and select **Management groups** to navigate to the **Management groups** blade.
- 3. Review the messages at the top of the **Management groups** blade. If you are seeing the message stating **You** are registered as a directory admin but do not have the necessary permissions to access the root management group, perfom the following sequence of steps:
 - a. In the Azure portal, search for and select Azure Active Directory.
 - b. On the blade displaying properties of your Azure Active Directory tenant, in the vertical menu on the left side, in the **Manage** section, select **Properties**.
 - c. On the Properties blade of your your Azure Active Directory tenant, in the Access management for Azure resources section, select Yes and then select Save.
 - d. Navigate back to the **Management groups** blade, and select **Refresh**.
- 4. On the **Management groups** blade, click + **Create**.
 - Note: If you have not previously created Management Groups, select Start using management groups
- 5. Create a management group with the following settings:

Setting	Value
Management group ID	az104-02-mg1
Management group display name	az104-02-mg1

- 6. In the list of management groups, click the entry representing the newly created management group.
- 7. On the az104-02-mg1 blade, click Subscriptions.
- 8. On the az104-02-mg1 | Subscriptions blade, click + Add, on the Add subscription blade, in the Subscription drop-down list, select the subscription you are using in this lab and click Save.



Task 2: Create custom RBAC roles

In this task, you will create a definition of a custom RBAC role.

1. From the lab computer, open the file **\Allfiles\Labs\02\az104-02a-customRoleDefinition.json** in Notepad and review its content:



```
"Name": "Support Request Contributor (Custom)",
   "IsCustom": true,
   "Description": "Allows to create support requests",
   "Actions": [
        "Microsoft.Resources/subscriptions/resourceGroups/read",
        "Microsoft.Support/*"
],
   "NotActions": [
],
   "AssignableScopes": [
        "/providers/Microsoft.Management/managementGroups/az104-02-mg1",
        "/subscriptions/SUBSCRIPTION_ID"
]
```

- **Note**: If you are not sure where the files are stored locally in your lab environment, please ask your instructor.
- 2. Replace the SUBSCRIPTION_ID placeholder in the JSON file with the subscription ID you copied into Clipboard and save the change.
- 3. In the Azure portal, open **Cloud Shell** pane by clicking on the toolbar icon directly to the right of the search textbox.
- 4. If prompted to select either Bash or PowerShell, select PowerShell.
 - Note: If this is the first time you are starting Cloud Shell and you are presented with the You have no storage mounted message, select the subscription you are using in this lab, and click Create storage.
- 5. In the toolbar of the Cloud Shell pane, click the **Upload/Download files** icon, in the drop-down menu click **Upload**, and upload the file **\Allfiles\Labs\02\az104-02a-customRoleDefinition.json** into the Cloud Shell home directory.
- 6. From the Cloud Shell pane, run the following to create the custom role definition:



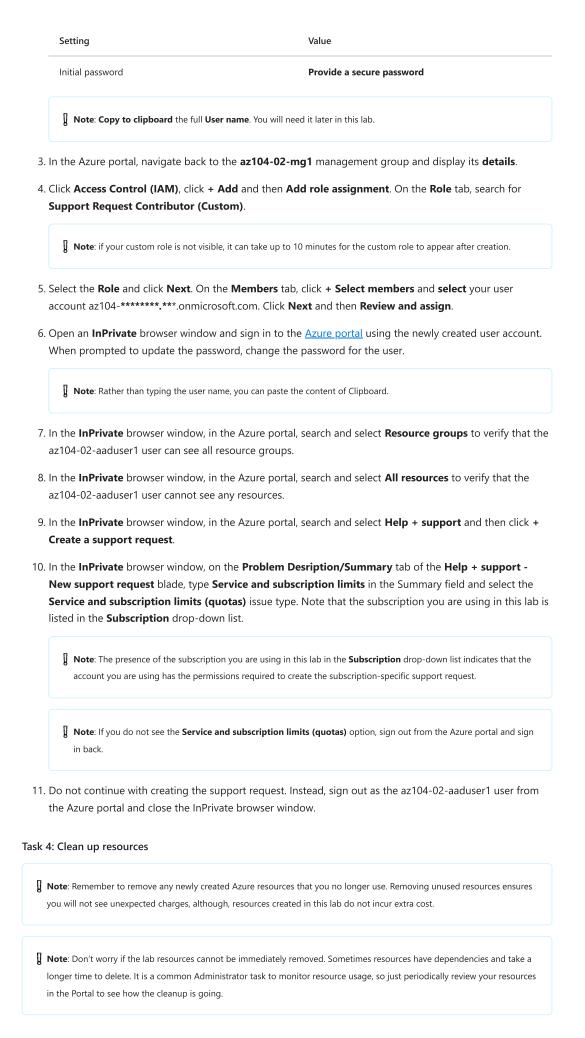
7. Close the Cloud Shell pane.

Task 3: Assign RBAC roles

In this task, you will create an Azure Active Directory user, assign the RBAC role you created in the previous task to that user, and verify that the user can perform the task specified in the RBAC role definition.

- 1. In the Azure portal, search for and select **Azure Active Directory**, on the Azure Active Directory blade, click **Users**, and then click **+ New user**.
- 2. Create a new user with the following settings (leave others with their defaults):

Setting	Value
User name	az104-02-aaduser1
Name	az104-02-aaduser1
Let me create the password	enabled



- In the Azure portal, search for and select Azure Active Directory, on the Azure Active Directory blade, click Users.
- 2. On the Users All users blade, click az104-02-aaduser1.
- 3. On the az104-02-aaduser1 Profile blade, copy the value of Object ID attribute.
- 4. In the Azure portal, start a **PowerShell** session within the **Cloud Shell**.
- 5. From the Cloud Shell pane, run the following to remove the assignment of the custom role definition (replace the [object_ID] placeholder with the value of the **object ID** attribute of the **az104-02-aaduser1**Azure Active Directory user account you copied earlier in this task):



6. From the Cloud Shell pane, run the following to remove the custom role definition:

```
Code

Remove-AzRoleDefinition -Name 'Support Request Contributor (Custom)' -Force
```

- In the Azure portal, navigate back to the Users All users blade of the Azure Active Directory, and delete the az104-02-aaduser1 user account.
- 8. In the Azure portal, navigate back to the **Management groups** blade.
- On the Management groups blade, select the ellipsis icon next to your subscription under the az104-02-mg1 management group and select Move to move the subscription to the Tenant Root management group.
 - **Note**: It is likely that the target management group is the **Tenant Root management group**, unless you created a custom management group hierarchy before running this lab.
- 10. Select **Refresh** to verify that the subscription has successfully moved to the **Tenant Root management group**.
- 11. Navigate back to the **Management groups** blade, click the **ellipsis** icon to the right of the **az104-02-mg1** management group and click **Delete**.
 - Note: If you are unable to delete the **Tenant Root management group**, chances are that the **Azure Subscription** is under the management group. You need to move **Azure Subscription** out of the **Tenant Root management group** and then delete the group.

Review

In this lab, you have:

- Implemented Management Groups
- Created custom RBAC roles
- Assigned RBAC roles