Guide for 'Your First Data Science Project' prerequisites

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Setting Up Resource Principals and Policies

Scope

The following guide walks you through the minimal policies required to:

1. Create and use Notebook Sessions for running open-source libraries, registering models, deploying models, and reading/writing from Object Storage.
2. Register and deploy a model using AI Quick Actions.

Setup for Admin

As an Admin user, you already have user policies granting access to the relevant resources in OCI. Still, a few setup steps are required.

Creating a compartment

Compartments are logical containers where your resources reside. To use Data Science resources, you must have a compartment.

1. Go to Identity> Compartment
2. Create your compartment

Resources:

· [OCI official documentation](#)
· [YouTube video](#)

Dynamic Group

For resources to interact with each other, you need to define policies for resources.
To do this effectively, create a dynamic group that groups resources based on matching rules you define. Policies assigned to the dynamic group automatically apply to all resources that match those rules.

1. Go to Identity> Domains>Dynamic groups
2. Click on Create Dynamic Group
3. Give it a name and add the following Rules:

ALL {resource.type= 'datasciencenotebooksession'}
ALL {resource.type='datasciencemodeldeployment'}

Resources:

· [OCI official documentation](#)

Creating Dynamic Group Policies

1. Go to Identity> Policies

2. Create the following policies, and replace the placeholders with your actual names:
allow dynamic-group <your_dynamic_group> to manage data-science-family in compartment <your_compartment>
allow dynamic-group <your_dynamic_group> to manage object-family in compartment <your_compartment>
allow dynamic-group <your_dynamic_group> to use virtual-network-family in compartment <your_compartment>
allow service datascience to use virtual-network-family in compartment <your_compartment>
allow dynamic-group <your_dynamic_group> to read resource-availability in compartment <your_compartment>
allow dynamic-group <your_dynamic_group> to read repos in compartment <your_compartment>

Additional user group policies for a non-admin user

If you are not an Admin user, ask your Admin to add your group with the following policies:

allow group <your_group> to use virtual-network-family in compartment <your_compartment>
allow group <your_group> to manage data-science-family in compartment <your_compartment>
allow group <your_group>   to manage object-family in compartment <your_compartment>
allow group <your_group>   to manage tag-namespace in compartment <your_compartment>

Creating an Object Storage Bucket

1. Go to Storage> Buckets

2. Enable 'Create an object version when a new object is uplouded'.