

Solution Engineer Assisted Workshop Day

Lab 01 – Console and User Administrations

V1.2

ORACLE LAB BOOK | JANURARY 2019

A large red triangle is positioned in the upper right quadrant of the page, extending from the top edge down to about two-thirds of the way down the page. It has a thin white border.

ORACLE®

Disclaimer

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Table of Contents

Disclaimer	1
Overview	2
Pre-Requisites	2
Practice 1-1: Signing in to the Console	3
Practice 1-2: Managing Users, Groups and Policies to Control Access	7
Practice 1-3: Each user creates a tag namespace to tag resources	21

Overview

The Oracle Cloud Infrastructure Identity and Access Management (IAM) Service lets you control who has access to your cloud resources. You control the types of access a group of users has and to which specific resources.

The purpose of this lab is to give you an overview of the IAM Service components and an example scenario to help you understand how they work together.

Definitions:

Users – Individual that managers or use OCI resources. IAM policies dictate what allows them to launch, manage, or view resources.

Tenancy – The root compartment contains all of organization's OCI resources.

Region – OCI is physically hosted in regions and availability domains. Region is a localized geographical area.

Groups – Collection of users who all have the same type of access.

Compartments – A collection of related resources used to isolate resources.

IDCS – Identity Cloud Service, a PaaS that provides ID access management to all Oracle Cloud resources.

IAM – Identity and Access Management lets you control who has access to your cloud resources.

Pre-Requisites

- Oracle Cloud Infrastructure account credentials (User, Password, and Tenant)
- Or sign up for a free trial account.

Practice 1-1: Signing in to the Console

Overview

In this practice, you sign in to the Oracle Cloud Infrastructure console using your credentials.

Assumptions

Note: Some of the UIs might look a little different than the screenshots included in the instructions, but students can still use the instructions to complete the hands-on labs.

Before You Begin

To sign in to the Console, you need the following:

- Tenant, User name and Password
- URL for the Console: <https://console.us-phoenix-1.oraclecloud.com/>
- Any browser from the supported browsers list (Recommended)

Note:

- For this lab we use **cloud.admin** and <your-name@email.com> as the user name to demonstrate the scenarios. You must use your **cloud.admin** when you perform these tasks.
- Oracle Cloud Infrastructure supports the latest versions of Google Chrome, Firefox and Internet Explorer 11.
- When you are provisioned, you will receive a customized URL for your organization. For example, <https://console.us-phoenix-1.oraclecloud.com/?tenant=<your-tenant-id>>
- If you omit the tenant argument, the system will ask you to input your tenancy before you can log in.

Duration: 5 minutes

Tasks

1. Sign In
 - a. Open a supported browser and go to the Console URL. For example, <https://console.us-phoenix-1.oraclecloud.com/>.
 - i) Can also access the OCI console URL going to cloud.oracle.com. Click Infrastructure, then Documentation.
 - ii) In <https://docs.cloud.oracle.com/iaas> click Infrastructure Console

Try for Free Estimate Sign In

Applications | Platform | Infrastructure | Resources | Documentation

Oracle Cloud Infrastructure Documentation

Service Health Dashboard > Release Notes > Infrastructure Console >

Getting Started > Services > Developer Tools > Security > More > Infrastructure Console ↵

Search... All Topics

Archive Storage Audit Block Volume Compute

Container Engine Data Transfer Database DNS

Cloud Tenant

b. Enter your tenant name: <Tenant> and click Continue.

SIGN IN

Cloud Tenant

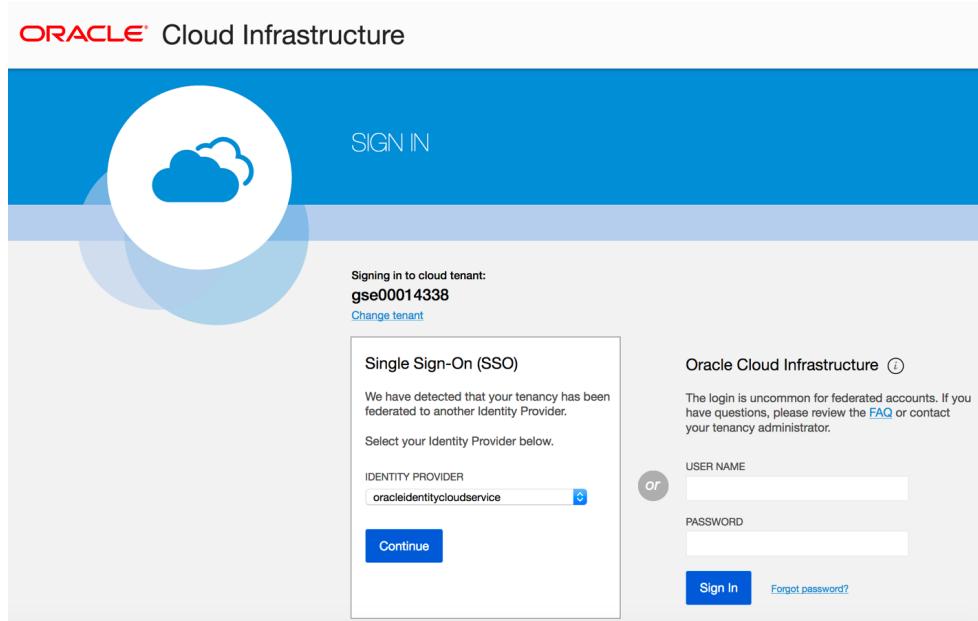
Continue

About Oracle | Contact Us | Service Health Dashboard | Legal Notices | Terms of Use | Privacy

COPYRIGHT © 2016-2019, ORACLE AND/OR ITS AFFILIATES. ALL RIGHTS RESERVED.

c. Oracle Cloud Infrastructure can be integrated with Identity Cloud Services. If it is, you will see a screen validating your Identity Provider. You can just click **Continue** to log in with IDCS.
i) Otherwise use OCI infrastructure IAM to log in.

Using IAM to log in on the right side:

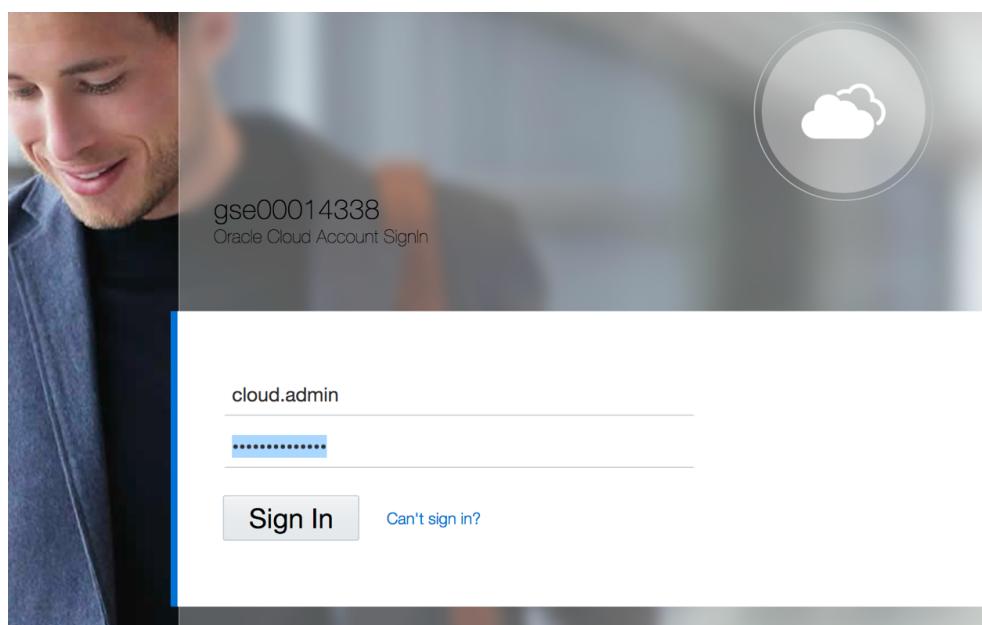


- d. Enter your user name and password for logging in using IDCS or IAM

Username: <Username>

Password: <instructor will provide password>

Using IDCS:



ORACLE



When you sign in to the Console, the home page is displayed.

The screenshot shows the Oracle Cloud Infrastructure (OCI) home page. At the top, there's a blue header bar with the "ORACLE Cloud Infrastructure" logo, a search bar, and account information. Below the header is a "Quick Launch" section with six cards, each containing an icon, a title, a description, and a time estimate. To the right of this is an "Action Center" with links for User Management and Billing, and a "What's New" section with news items. At the bottom, there are three image cards for "Jump Start", "Available Modules for Oracle", and "Mission Critical Database", followed by copyright and legal information.

☰ MENU ORACLE[®]
Cloud Infrastructure

Search eu-frankfurt-1 ?

Quick Launch

- Create a VM instance
Compute
2-6 mins
- Create a database
Autonomous Transaction Processing
3-5 mins
- Create a data warehouse
Autonomous Data Warehouse
3-5 mins
- Create a virtual cloud network
Networking
1-3 mins
- Store data
Object Storage
2-6 mins
- Manage a domain
DNS Zone Management
3-9 mins

Action Center

- User Management Add a user to your tenancy
- Billing View your bill

What's New

- IDCS Federated users can now use the CLI and SDK
12/13/2018 [Read more](#)
- Recap of the biggest announcements from Oracle OpenWorld 2018
10/26/2018 [Read more](#)
- Oracle Cloud Infrastructure meets HIPAA requirements and additional industry standards

Jump Start Available Modules for Oracle Mission Critical Database

Terms of Use and Privacy [Cookie Preferences](#)

Copyright © 2018, Oracle and/or its affiliates. All rights reserved.

The home page gives you quick links to the documentation and to Oracle Support.

Practice 1-2: Managing Users, Groups and Policies to Control Access

Overview

A user's permissions to access services comes from the *groups* to which they belong. The permissions for a group are defined by policies. Policies define what actions members of a group can perform, and in which compartments. Users can access services and perform operations based on the policies set for the groups of which they are members.

Compartments logically separate resources. Can use compartments to separate resources based on sub-organizations within your company.

We'll create users, groups, and policies to understand the concept.

Before You Begin

You should have completed Practice 1-1.

Duration: 20 minutes

Tasks

1. Create a Group in Your Tenancy

- Sign in to the console, on the **Home** page click **Identity**, then select **Groups**.

The screenshot shows the Oracle Cloud Infrastructure (OCI) Home page. The navigation bar at the top includes a 'MENU' icon, the 'ORACLE Cloud Infrastructure' logo, a search bar, and account information ('eu-frankfurt-1'). The left sidebar has sections for Autonomous Data Warehouse, Autonomous Transaction Processing, SOLUTIONS, PLATFORM AND EDGE (Email Delivery, Edge Services, Developer Services), GOVERNANCE AND ADMINISTRATION (Identity, Security, Governance, Administration), and a 'Cloud Infrastructure' section. The 'Identity' section is currently selected, and its sub-menu items are visible: 'Users' (selected), 'Groups', 'Dynamic Groups', 'Policies', 'Compartments', and 'Federation'. The main content area displays several quick-start cards: 'Create a database' (Autonomous Transaction Processing, 3-5 mins), 'Create a virtual cloud network' (Networking, 1-3 mins), and 'Manage a domain' (DNS Zone Management, 3-9 mins). To the right, there's an 'Action Center' with links for 'User Management' (Add a user to your tenancy), 'Billing' (View your bill), and 'What's New' (IDCS Federated users can now use the CLI and SDK, 12/13/2018, Read more). A 'Health Dashboard' card indicates 'All systems operational' with a green icon. The bottom of the page shows the URL 'https://console.us-ashburn-1.oraclecloud.com/a/identity/groups' and a copyright notice: 'Copyright © 2018, Oracle and/or its affiliates. All rights reserved.'

b. Click **Create Group**.

The screenshot shows the Oracle Cloud Infrastructure Groups page. On the left, there's a sidebar with options: Users, Groups (which is selected and highlighted in blue), Dynamic Groups, Policies, Compartments, and Federation. The main content area has a title 'Groups' and a 'Create Group' button. Below the button, it says 'Nothing here? Possible reasons:' followed by two bullet points: 'These resources do not exist' and 'You don't have access to these resources'. At the bottom of the content area, it says 'Make sure you're viewing the correct resource(s) (choose from the list on the left)'. At the very bottom of the page, there are links for 'Terms of Use and Privacy' and 'Cookie Preferences' on the left, and 'Copyright © 2018, Oracle and/or its affiliates. All rights reserved.' on the right.

c. In the **Create Group** dialog box, enter the following:

- i) **Name:** Enter a unique name for your group such as "oci-group" Note that the group name cannot contain spaces.
- ii) **Description:** Enter a description (for example, "New group for oci users").
- iii) Click **Submit**.

The screenshot shows the 'Create Group' dialog box. It has fields for 'NAME' (containing 'Organization-SubGroup') and 'DESCRIPTION' (containing 'Part of a larger organization'). There's also a 'TAGS' section with a note about tagging and a link to 'Learn more about tagging'. At the bottom, there's a 'TAG NAMESPACE' dropdown set to 'None (apply a free-for)', 'TAG KEY' input field, 'VALUE' input field, a '+ Additional Tag' button, and a 'Submit' button. The background shows the same Groups page as the previous screenshot.

Identity » Groups » Group Details

Organization-SubGroup

[Delete](#) [Apply Tag\(s\)](#)

[Group Information](#) [Tags](#)

OCID: ...3ok6oq [Show](#) [Copy](#)

Description: Part of a larger organization

Created: Sat, 05 Jan 2019 01:01:17 GMT

Resources

Group Members

No Group Members

[Add User to Group](#)

[Terms of Use and Privacy](#) [Cookie Preferences](#)

Copyright © 2018, Oracle and/or its affiliates. All rights reserved.

2. Create a **Compartment** in Your Tenancy
 - a. On the **Menu** page click **Identity**, then select **Compartments**.

☰ MENU **ORACLE**
Cloud Infrastructure

[Search](#)

[eu-frankfurt-1](#) [?](#) [User](#)

[Object Storage](#) 2-6 mins [DNS Zone Management](#) 3-9 mins

[Billing](#)
View your bill

What's New

- IDCS Federated users can now use the CLI and SDK
12/13/2018 [Read more](#)
- Recap of the biggest announcements from Oracle OpenWorld 2018
10/26/2018 [Read more](#)
- Oracle Cloud Infrastructure meets HIPAA requirements and additional compliance standards
10/26/2018 [Read more](#)
- Announcing Oracle Cloud Infrastructure Key Management
10/23/2018 [Read more](#)

Get Help

[Documentation](#) [Developer Tools](#)

<https://console.us-ashburn-1.oraclecloud.com/a/identity/compartments>

Copyright © 2018, Oracle and/or its affiliates. All rights reserved.

b. Click **Create Compartment**.

The screenshot shows the Oracle Cloud Infrastructure (OCI) Compartments page. On the left, there's a sidebar with links for Identity, Users, Groups, Dynamic Groups, Policies, Compartments (which is selected and highlighted in blue), and Federation. The main content area has a title "Compartments" and a subtitle "Displaying 6 Compartments". There are three compartments listed:

Compartment Name	Description	OCID	Created	Actions
RC	Description: The root Compartment of the tenancy Authorized: No Subcompartments: 5	...dkjvza	Thu, 01 Nov 2018 16:47:16 GMT	...
C	Description: dz lb demo Authorized: Yes Subcompartments: 0	...jkvoba	Thu, 01 Nov 2018 16:47:16 GMT	...
C	Description: idcs-517aafe2fd0849b5be35199548905d03 kylegriffin0@gmail.com-73284	...lqofkq		

At the bottom of the page, there are links for "Terms of Use and Privacy" and "Cookie Preferences", and a copyright notice: "Copyright © 2018, Oracle and/or its affiliates. All rights reserved."

c. In the **Create Compartment** dialog box, enter the following:

- i) **Name:** Enter a unique name for your compartment such as "OCI-Demo" Note that the compartment name cannot contain spaces.
- ii) **Description:** Enter a description (for example, "New compartment for oci demo").
- iii) Click **Create Compartment**.

Create Compartment

NAME
OCI-Demo

DESCRIPTION
New compartment for oci demo

PARENT COMPARTMENT
(root)

TAGS

What is tagging?

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

TAG NAMESPACE	TAG KEY	VALUE
None (apply a free-form tag)		
+ Additional Tag		

[Create Compartment](#)

Compartment created:

☰ MENU ORACLE Cloud Infrastructure Search us-ashburn-1 ?

Identity » Compartments » Compartment Details

OCI-Demo



New compartment for oci demo

[Rename](#) [Edit Description](#) [Apply Tag\(s\)](#) [Delete](#)

[Compartment Information](#) [Tags](#)

Parent compartment: [kylegriffin1 \(root\)](#)
OCID: ...qztwmq [Show](#) [Copy](#)
Authorized: Yes
Created: Sat, 05 Jan 2019 01:10:07 GMT

3. Now, let's **create a policy** that gives your group permissions in your assigned compartment. For example, creates a policy that gives permission to compartment OCI-Demo to members or group oci-group:

a. In the Console, click **Identity**, and then click **Policies**.

The screenshot shows the Oracle Cloud Infrastructure (OCI) console interface. The top navigation bar includes a 'MENU' button, the 'ORACLE Cloud Infrastructure' logo, a search bar, and a location dropdown set to 'eu-frankfurt-1'. On the far right are a help icon and a user profile icon. Below the header, there are several sections: 'DATABASE' (Bare Metal, VM, and Exadata; Autonomous Data Warehouse; Autonomous Transaction Processing), 'SOLUTIONS, PLATFORM AND EDGE' (Email Delivery, Edge Services, Developer Services), and 'GOVERNANCE AND ADMINISTRATION' (Identity, Security, Governance, Administration). The 'Identity' section is expanded, showing 'Users', 'Groups', 'Dynamic Groups', 'Policies' (which is highlighted in blue), 'Compartments', and 'Federation'. To the right of the menu, there are four cards: 'Create a database' (Autonomous Transaction Processing, 3-5 mins), 'Create a data warehouse' (Autonomous Data Warehouse, 3-5 mins), 'Store data' (Object Storage, 2-6 mins), and 'Manage a domain' (DNS Zone Management, 3-9 mins). A central image shows a person working at a desk with a laptop, and another image shows a person standing in front of server racks. The right sidebar features an 'Action Center' with 'User Management' (Add a user to your tenancy) and 'Billing' (View your bill). It also has a 'What's New' section with three items: 'IDCS Federated users can now use the CLI and SDK' (12/13/2018, Read more), 'Recap of the biggest announcements from Oracle OpenWorld 2018' (10/26/2018, Read more), and 'Oracle Cloud Infrastructure meets HIPAA requirements and additional compliance standards' (10/26/2018, Read more). The bottom left shows the URL 'https://console.us-ashburn-1.oraclecloud.com/a/identity/policies' and the bottom right shows the copyright notice 'Copyright © 2018, Oracle and/or its affiliates. All rights reserved.'

b. On the left side, select your <Compartment-Name> compartment.

The screenshot shows the 'Policies' page within the 'Identity' section of the OCI console. The left sidebar lists 'Users', 'Groups', 'Dynamic Groups', 'Policies' (selected and highlighted in blue), 'Compartments', and 'Federation'. Below this is a 'List Scope' section with a 'COMPARTMENT' dropdown menu containing the placeholder 'Pick a compartment'. A note below the dropdown says 'Don't see what you're looking for?'. The main content area is titled 'Select a Compartment' and contains a diagram of a compartment structure with a 'Compartment Filter' and a list of compartments. Text on the right explains that compartments organize resources and provides a link to 'Learn more about Compartments'. At the bottom of the page are links for 'Terms of Use and Privacy' and 'Cookie Preferences', and the copyright notice 'Copyright © 2018, Oracle and/or its affiliates. All rights reserved.'

- c. Click **Create Policy**.
- d. Enter a unique **Name** for your policy (For example, "Policy-for-oci-group") Note that the name can NOT contain spaces.
- e. Enter a **Description** (for example, "Policy for OCI Group").
- f. Enter the following **Statement**:
Allow group <group-name> to manage all-resources in compartment <compartment-name>
- g. Click **Create**.

Create Policy [help](#) [cancel](#)

NAME	Policy-for-sub-organization	
DESCRIPTION	Policy for compartment of sub organization	
Policy Versioning		
<input checked="" type="radio"/> KEEP POLICY CURRENT <input type="radio"/> USE VERSION DATE		
Policy Statements		
STATEMENT	Allow group Organization-SubGroup to manage all-resources in compartment OCI-Demo	
<input type="button" value="+"/>		
TAGS		
Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.		
Learn more about tagging		
TAG NAMESPACE	TAG KEY	VALUE
None (apply a free-form tag ▾)		
<input type="button" value="+ Additional Tag"/>		
<input type="button" value="Create"/>		

ORACLE

Identity » Policies » Policy Details

Policy-for-sub-organization

[Update Version Date](#) [Delete](#) [Apply Tag\(s\)](#)

Policy Information	Tags
OCID: ...q wahka Show Copy Version Date: Keep Policy current Compartment: kylegriffin1	Description: Policies for sub-organization compartment Created: Sat, 05 Jan 2019 01:24:32 GMT

Statements

Displaying 1 Statements

[Statements \(1\)](#) [Add Policy Statement](#)

[Terms of Use and Privacy](#) [Cookie Preferences](#)

Copyright © 2018, Oracle and/or its affiliates. All rights reserved.

4. Create a New User

- In the Console, click **Identity**, and then click **Users**.

Autonomous Data Warehouse

Autonomous Transaction Processing

SOLUTIONS, PLATFORM AND EDGE

Email Delivery >

Edge Services >

Developer Services >

GOVERNANCE AND ADMINISTRATION

- Identity > **Users**
- Groups
- Dynamic Groups
- Security > Policies
- Governance > Compartments
- Administration > Federation

Create a database
Autonomous Transaction Processing
3-5 mins

Create a virtual cloud network
Networking
1-3 mins

Manage a domain
DNS Zone Management
3-9 mins

All systems operational
View health dashboard

Action Center

User Management
Add a user to your tenancy

Billing
View your bill

What's New

IDCS Federated users can now use the CLI and SDK
12/13/2018 [Read more](#)

Recap of the biggest announcements from Oracle OpenWorld 2018

<https://console.us-ashburn-1.oraclecloud.com/a/identity/users>

Copyright © 2018, Oracle and/or its affiliates. All rights reserved.

- Click **Create User**.

- c. In the **New User** dialog box, enter the following:
- Name:** Enter a unique name or email address for the new user. For Example:
yourname@email.com
This value is the user's login name for the Console and it must be unique across all other users in your tenancy.
 - Description:** Enter a description. For example, New oci user.

The screenshot shows the Oracle Cloud Infrastructure (OCI) console interface. On the left, there is a sidebar with options like Identity, Users (which is selected), Groups, Dynamic Groups, Policies, Compartments, Federation, and Filters. Under 'USER TYPE', 'LOCAL USERS' is checked. The main area displays a list of users with columns for Name, Last Modified, and Actions. A modal dialog box titled 'Create User' is open in the center. It has fields for 'NAME' (containing 'workshop@email.com') and 'DESCRIPTION' (containing 'New OCI User for sub-organization'). Below these are 'TAGS' settings, including a dropdown for 'TAG NAMESPACE' (set to 'None (apply a free-for)'), and input fields for 'TAG KEY' and 'VALUE'. A 'Create' button is at the bottom of the dialog. The background shows the user list with two entries: one from '7 Oct 2018 16:25:58 GMT' and another from 'Nov 2018 16:55:06 GMT'.

- d. Click **Create**.

5. Set a Temporary Password for the Newly Created User

- From the list of users, click on **the user that you created** to display its details.
- Click **Create/Reset Password**.

The screenshot shows the Oracle Cloud Infrastructure User Details page. At the top, there is a navigation bar with 'MENU', 'ORACLE Cloud Infrastructure', a search bar, and account information ('us-ashburn-1'). Below the navigation bar, the user's email address 'workshop@email.com' is displayed in a large green circle with a white 'W'. The status is listed as 'ACTIVE'. On the right, there is a 'Description' field containing 'New OCI User for sub-organization' with an edit icon. Below the description are several buttons: 'Create/Reset Password' (highlighted in blue), 'Edit User Capabilities', 'Unblock', 'Delete' (in red), and 'Apply Tag(s)'. Under the 'User Information' tab, which is selected, there are details: OCID (pz6ezq), Status (Active), Created (Sat, 05 Jan 2019 01:30:45 GMT), and Federated (No). Below this is a 'Capabilities' section with Local password (Yes), SMTP credentials (Yes), API keys (Yes), and Customer secret keys (Yes). At the bottom of the page are links for 'Terms of Use and Privacy' and 'Cookie Preferences', and a copyright notice: 'Copyright © 2018, Oracle and/or its affiliates. All rights reserved.'

- In the dialog, click **Create/Reset Password**.

The dialog box has a title 'Create/Reset Password' and a 'cancel' link. It contains a message: 'This will create a new one-time password for the User.' At the bottom is a large blue 'Create/Reset Password' button.

- The new one-time password is displayed.

The dialog box has a title 'Create/Reset Password' and a 'close' link. It displays a 'NEW PASSWORD' field containing the password 'X;u]Uhj-]de}t7})aDgk'. Below the field is a note: 'Copy this password for your records. It will not be shown again.' with a 'Copy' link. At the bottom is a blue 'Close' button.

- Click the **Copy** link and then click **Close**. Make sure to copy this password to your notepad.

6. Repeat the steps to create all the users for everyone and send the new pass words to each.
7. Everyone sign in as the new `yourname@email.com` user using a different web browser window.
 - a. Go to <https://console.us-phoenix-1.oraclecloud.com/>.
 - b. Enter the Tenant name, if prompted.
 - c. Sign in as `yourname@email.com`
 - d. Enter the password that you copied in [Task 4](#).

Note: Since this is the first-time sign-in, the user will be prompted to change the temporary password, as shown in the screen capture.

- e. Set the new password to `Welc0me2*bmcs`. Click **Save New Password**.

Change Your Password

You must change your password either because this is your first time signing in, your password was reset, or you opted to change it

Current Password
••••••••••••••

New Password
••••••••••••

Confirm New Password
••••••••••••

Save New Password

Password requirements:

- ✓ Twelve or more characters
- ✓ At least one lowercase letter
- ✓ At least one uppercase letter
- ✓ At least one number
- ✓ At least one punctuation character
- ✓ Cannot match the account name

- f. `yourname@email.com` lands on the home page.

8. Verify user permissions

- Go to the **Compute** tab and click on **Instances**.
- Select compartment OCI-Demo from the left menu, if it's not already selected.
- The message "**You don't have access to this compartment**" appears.

The screenshot shows the Oracle Cloud Infrastructure Compute Instances page. The top navigation bar includes the Oracle logo, tenant information (TENANCY gse00014398 REGION us-ashburn-1), and links for Home, Identity, Compute, Database, Networking, Storage, and Audit. On the left, a sidebar titled "Compute" has "Instances" selected. The main content area is titled "Instances in OCI-Demo Compartment" and contains a "Launch Instance" button. A sorting dropdown is set to "Created Date (Desc)". Below it, a message states "Nothing here? Possible reasons:" with two bullet points: "This Compartment does not exist" and "You don't have access to this Compartment".

9. Admins: Add User to a Group – Add users to their corresponding compartments

- Sign in back as the admin account. Click **Identity > Users**.
- From the **Users** list, click your user (for example, `yourname@email.com`) to go to the user details page.
- Under the **Resources** menu on the left, click **Groups**.

The screenshot shows the Oracle Cloud Infrastructure Identity User Details page. At the top, there is a user profile picture with the letter 'W' and the status 'ACTIVE'. The user's OCID is listed as `...pz6ezq`. The 'User Information' tab is active, showing the user is 'Active' and 'Federated: No'. The 'Capabilities' section lists 'Local password: Yes', 'API keys: Yes', 'Auth tokens: Yes', 'SMTP credentials: Yes', and 'Customer secret keys: Yes'. Below this, the 'Groups' section is shown, with a message stating "This User is not a Member of any Groups." and a "Add User to Group" button. On the left sidebar under "Resources", there are links for API Keys (0), Auth Tokens (0), SMTP Credentials (0), Customer Secret Keys (0), and Groups (0).

- Click **Add User to Group**.

- From the **GROUPS** drop-down list, select the **oci-group** that you created.
- Click **Add**.

ORACLE

The screenshot shows the Oracle Cloud Infrastructure interface. On the left, there's a sidebar with 'Resources' and a 'Groups (0)' section. The main area is titled 'Capabilities' and contains a message: 'This User is not a Member of any Groups.' A blue button labeled 'Add User to Group' is present. A modal window titled 'Add User to Group' is open, showing a dropdown menu with group options: 'Select a Group', 'Administrators', 'employee', and 'Organization-SubGroup'. The 'Organization-SubGroup' option is highlighted with a blue selection bar.

The screenshot shows the 'Groups' page. The sidebar has a 'Groups (1)' section. The main content area is titled 'Groups' and shows a single group entry: 'Organization-SubGroup' (OCID: ...3ok6oq). The entry includes a green circular icon with a white 'G', the status 'ACTIVE', and creation details: 'Time Created: Sat, 05 Jan 2019 01:47:40 GMT'. A blue 'Add User to Group' button is visible. The bottom right corner indicates 'Displaying 1 Groups'.

10. Verify user permissions when a user belongs to a specific group
 - a. Sign in as yourusername@email.com or reload the page if signed in
 - b. Go to the **Compute** tab and click **Instances**.
 - c. Select compartment **OCI-Demo** from the list of compartments on the left.

Compute
Instances
Images
List Scope
COMPARTMENT
OCI-Demo
Filters

Instances in OCI-Demo Compartment

Launch Instance

Sort by: Created Date (Desc) ▾

There are no Instances in OCI-Demo that match the filter criteria.

Launch Instance

- d. There is no message related to permissions.
- e. Go to the **Identity** tab and select **Groups**.
- a. The message “You don’t have access to these resources” appears. This is expected, since your user has no permission to any groups.

ORACLE®

Practice 1-3: Each user creates a tag namespace to tag resources

- As signed in, go to Governance and Tag Namespaces

The screenshot shows the Oracle Cloud Infrastructure (OCI) Governance and Tag Namespaces interface. The left sidebar lists various services: Autonomous Data Warehouse, Autonomous Transaction Processing, SOLUTIONS, PLATFORM AND EDGE (Email Delivery, Edge Services, Developer Services), GOVERNANCE AND ADMINISTRATION (Identity, Security, Governance, Administration). The main content area is titled 'Capabilities' and shows settings for Local password (Yes), API keys (Yes), Auth tokens (Yes), SMTP credentials (Yes), and Customer secret keys (Yes). Below this is a 'Groups' section with a button to 'Add User to Group'. A specific group named 'Organization-SubGroup' is listed, created on Sat, 05 Jan 2019 01:47:40 GMT, with OCID: ...3ok6oq. It has options to 'Show' or 'Copy'. At the bottom of the page, there are links for Audit, Service Limits, and Tag Namespaces. The URL in the address bar is https://console.us-ashburn-1.oraclecloud.com/a/identity/tag-namespaces.

- Click **Create Namespace Definition** and enter the following:
 - Create in Compartment:** Select the corresponding compartment
 - Namespace Definition Name:** The name for the tag namespace
 - Description:** A description for the tag namespace to tell what resources it's for

Create Namespace Definition

[help](#) [cancel](#)

Tag Namespaces allow collections of tags within your tenancy to have the same policies. Use a Tag Namespace when:

- You want to have separate policies for a set of tags without creating a policy for each tag
- You want to use a set of pre-existing tags defined by another tenancy administrator
- You want to control access to certain tag definitions within your tenancy.

[Learn more](#)

CREATE IN COMPARTMENT

... (root)



NAMESPACE DEFINITION NAME

Sub-Org

Spaces and periods are not allowed. Only lowercase characters are supported currently, uppercase characters will automatically be transformed to lowercase.

DESCRIPTION

Tag for our sub-organization to keep track of resources

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

TAG NAMESPACE

None (apply a free-form tag)

TAG KEY

VALUE

+ Additional Tag

Create Namespace Definition

3. Click Create Namespace Definition

The screenshot shows the Oracle Cloud Infrastructure Tag Namespaces page. The left sidebar has sections for Governance, Audit, Service Limits, Tag Namespaces (which is selected and highlighted in blue), and List Scope. Under COMPARTMENT, it shows 'kylegriffin1 (root)'. The main content area has a title 'Tag Namespaces in [redacted] (root) Compartment' and a 'Create Namespace Definition' button. Below this is a table with one row:

NS	Sub-Org	OCID: ...kzqfoa	Show	Copy	Created: 2019-01-05T01:51:10.575Z	Number of Cost-tracking Tags: 0	...
ACTIVE							

At the bottom, there's a note 'Don't see what you're looking for? *i*' and links for 'Terms of Use and Privacy' and 'Cookie Preferences'. The footer includes the Oracle logo.

Now you'll be able to tag all the resources you'll create in the following labs to help better keep track of resources.