

Oracle Cloud Infrastructure (OCI) : Week 1 Learning Path Cloud Concepts & IAM Concepts


February 11, 2019 by [Varsha Sharma](#) 2 Comments

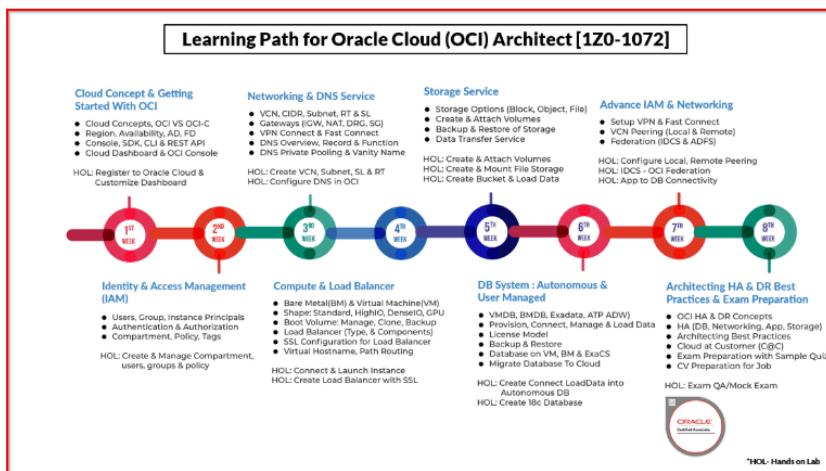
I have joined K21 Academy as an Intern. Learning is the most important thing to grow your skills and being an intern I have got this opportunity to be a part of OCI certification Exam.

So, If you are a fresher like me or just starting out in cloud or even working in cloud & are planning to get certified, you can start your journey as I did.

For better learning, we need to have a definite path that would help in getting more specific about our knowledge.

In the subsequent post, I have shared my week 1 learning so far according to the "[Learning Path for OCI](#)", on OCI **Module 1:** (Cloud Concepts) & **Module 2:** (Identity and Access Management)

In our 8 weeks [Training Program](#), we cover below Modules & step-by-step hands-on guides



Here are the basics of **Module 1: Cloud OCI Concepts** we have covered in week one.

What is the Cloud?

In technical terms, Cloud is defined as computing services including Storage, Server, Application, Networking, Database, etc. It is virtual memory that resides on the server but physically on the system. We have access to the cloud through some physical means but all the data and information are stored in a virtual account.

Features of Cloud Computing

There are different features of cloud computing:

- Tenancy:** Every individual has its own cloud account.
- Automated:** Automatic backup and system upgrades
- Access:** It is accessible from any device and from anywhere
- Coherent:** One can pay by their own using criteria, or it's a pay as you go.
- Web-based:** It is a modern web-based administration system.

If you want to learn more on [Oracle Cloud Infrastructure \(OCI\): Region, AD, FD, Tenancy, Compartment, VCN, IAM, Storage Service](#), check our post [here](#)

Cloud Service Models

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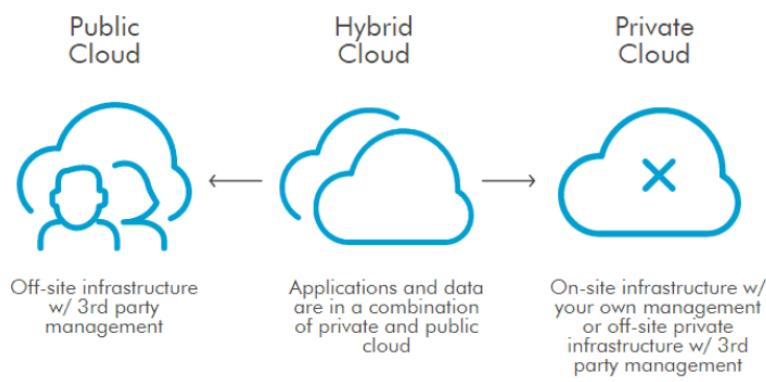
There are three cloud computing service models:

- **Infrastructure as a Service(IaaS):** In this model, Services like Application, Data, Runtime, Middleware, and Os are managed and maintained by the client and services like virtualization, servers, storage, and networking are managed by the server
- **Platform As a Service(PaaS):** In this model, Services like Application and Data are managed by the client and rest are managed by the server.
- **Software As a Service(SaaS):** In this model, all the services are managed by some third party reducing all efforts on a host.

To know more about **Cloud service model** previous post on [Cloud Service Model: SaaS | PaaS | IaaS](#)

Cloud Deployment Models

- **Private Model:** This model provides access only to authorized users.
- **Public Model:** This model provides access to clients and servers.
- **Hybrid Model:** This model is a combination of both private and public cloud



We cover all these **basics of cloud computing** in our **Module 1** of Oracle Cloud Infrastructure (OCI)

Module 1: Cloud Concepts & Getting Started with OCI

[< Back to Course](#)

Lesson Topics

- Presentation: Cloud Concepts & Getting Started with OCI
- Lesson 1: Overview of Module 1 (12:01 min)
- Lesson 2: Cloud Service Models: IaaS, PaaS, SaaS (7:58 min)
- Lesson 3: Oracle Cloud Deployment Models: Public, Private, Hybrid (12:12 min)
- Lesson 4: Oracle Cloud IaaS Offerings (7:03 min)
- Lesson 5: OCI VS OCI Classic (10:13 min)
- Lesson 6: OCI Building Blocks: Tenancy, Region, AD (12:31 min)
- Lesson 7: Overview: Storage, Networking, Compute (12:03 min)
- Lesson 8: Overview: Identity & Access Management (IAM) Service (9:18 min)
- Lesson 9: Subscribe To Oracle Cloud (17:30 min)
- Lesson 10: Sign In To Oracle Cloud Account (10:05 min)
- Lesson 11: Access & Customize Oracle Cloud Dashboard (10:57 min)
- Q/A - Oracle Cloud Computing Service – Getting Started

Activity Guide: Register for Oracle Cloud, Create SSH Keys & Cloud Dashboard Walkthrough

Quiz: Getting Started with OCI for Certification 1Z0-932

Quizzes

1 Module 1 Getting Started with OCI Quiz for Certification 1Z0-932

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- Presentation: Cloud Concepts & Getting Started with OCI
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- Lesson 5: OCI VS OCI Classic

In week 1, We have also covered **Module 2: Identity & Access Management**, So here is all you need to know about **IAM**.

Identity & Access Management In OCI

Before getting into an explanation of IAM there are few things that need to be understood

One should know, what exactly is **Identity and Access Management?**

There are different resources like **Compute, Block Volume, Database, DNS, Networking, Email, Storage**, etc in OCI which are used to perform different functionalities. IAM is a framework that

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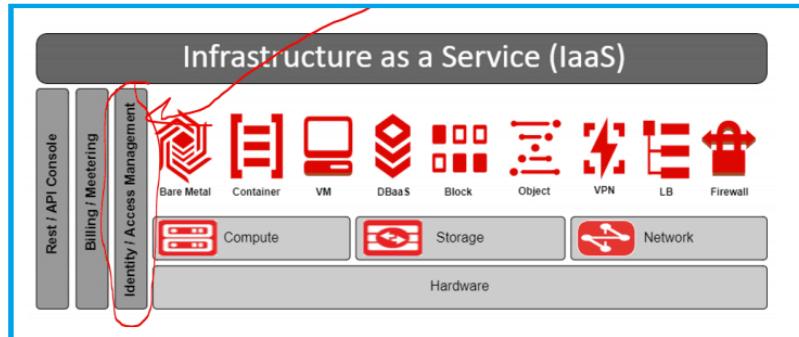
■ DBA To Cloud DBA

Oracle E-Business Suite(R12.2) Upgrade

oracle EBS – OAM Integration

provides access to a particular cloud resource in OCI.

In cloud services, a cloud account is salient only if it has access to all the resources in that account and coherent use of accessibility.



2 SHARES

Key Features of IAM

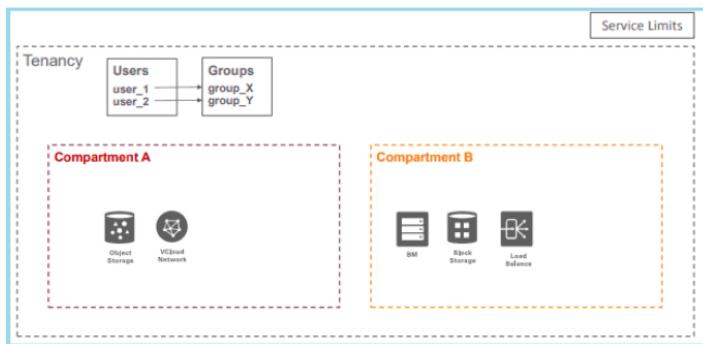
- It gives more secure access to an individual account.
- It includes all the tools and controls which are used to capture and record user login, removing and adding privileges in an automated pattern.

IAM Components

- **Tenancy**: It is also called account and is created at the initial stage. It contains all the OCI resources. When a Tenancy is created a **ROOT Compartment** is created in **Home Region**
- **Compartment**: Logical containers to isolate and organize OCI resources. There can be a sub-compartment also called the **child compartment**. A resource can span across multiple compartments. To know more about Compartment check our previous post [Compartment in Oracle Cloud Infrastructure](#)
- **Principals**: Entity that interacts with the OCI resources.

There are three principals to interact with and authenticate OCI resources.

- **Root users**: These are the primary account users and hold administrative powers and they can't be deleted.
- **IAM users**: These are with the least privileges and can only have access to OCI resources when they are added to a group having some permission policy to tenancy and compartment.
- **Group**: It is a collection of users requesting the same OCI resource. One user can be a member of multiple groups.
- **Instance Principle**: It eliminates the need for storing user credentials for future use, Can make API calls to OCI resources like compute, VCN, Block Storage, etc.



Authentication

- To identify the identity of a person.
- We can authenticate a principle either by using username and password or by API signing Keys.

Authorization

- The process of identifying what actions an authenticated person can take.

Policy

- A set of defined rules or statements that decides which user or group has access to a resource in tenancy and compartment.

Region & Home Region

Oracle EBS R12 On cloud

Oracle Enterprise Manager

Oracle Events

Oracle Financial Functional

Oracle Fusion Middleware

Oracle Goldengate 12c

Oracle Identity Management

Oracle Identity Manager

Oracle Identity Manager Identity

IDCS

- 1z0-1070

Oracle Integration-Cloud-Service

Oracle Internet Directory

Oracle SOA Suite 11g

Administration

Oracle Unified Directory

Administration

Oracle WebLogic Server

SOA Suite Development

Terraform IaC

WebLogic & OHS for Apps DBAs

- The geographical location where the cloud data center resides.
- **Home Region** is the location where we sign up and the tenancy is created first.

In module 2, we have covered all the concepts of IAM.

Apart from all the **theoretical concepts** we have covered until now, we need to revise our concepts through **practical implementation**. That's why one should Perform [Hands-on](#) to clear the concepts

Now It's your turn to learn and share your thoughts & doubts in the comment box.

Related/Further Readings

- [FREE Masterclass on How To Become Oracle Certified Cloud Architect](#)
- [Oracle Cloud Infrastructure \(OCI\) Architect Live Training](#)
- [Register for Oracle Cloud Trial Account](#)

Next Task For You

- Download the Step-By-Step Activity Guide to [Register for an Oracle Cloud Trial Account](#).

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Comments



Manish sharma says

February 12, 2019 at 6:38 am

The content was really good miss Varsha...I am looking forward to it
Thanx for sharing it with me...

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Varsha Sharma says

February 12, 2019 at 6:46 am

Hi Manish,

Glad, you liked my post.

Stay Tuned, for the further informative post.

Regards,
Varsha
Team K21

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