

# [1Z0-1085] Security In Oracle Cloud (OCI)



April 20, 2020 by [mohit](#) [Leave a Comment](#)

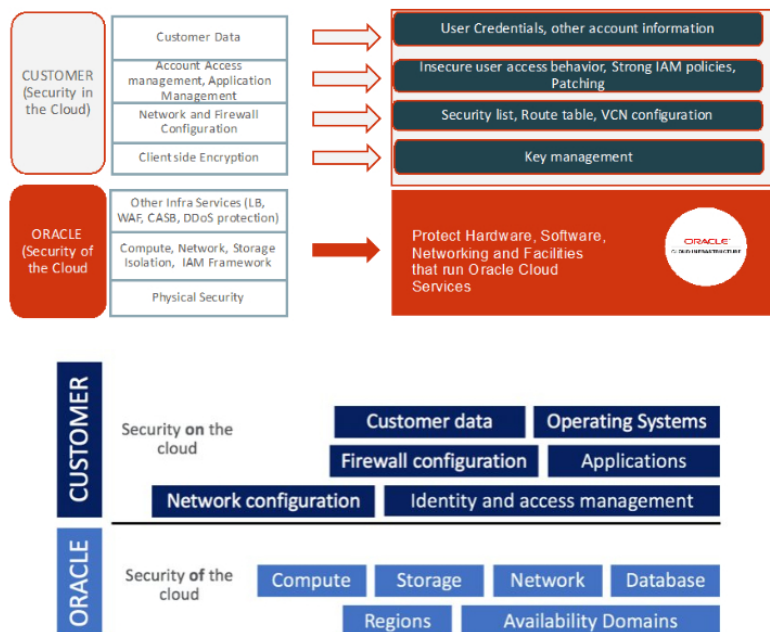
In this blog, we are talking about **Security in Oracle Cloud Infrastructure**. This topic comes under our training of **[1Z0-1085] Oracle Cloud Infrastructure Foundations(OCI)** for the training click on this link <https://k21academy.com/1z0108503>

We'll look at the **Shared Security Model**, various **OCI Security Services**, **Key Management**, **Networking Services**, and **WAF**.

Oracle Cloud Infrastructure's security approach is based on seven core pillars. Each pillar has multiple solutions designed to maximize the security and compliance of the platform.

- Customer Isolation
- Data Encryption
- Security Controls
- Visibility
- Secure Hybrid Cloud
- High Availability
- Verifiably Secure Infrastructure

## Shared Security Model



In the Cloud, OCI security is a shared responsibility between OCI and the customer.

## Oracle Manages Services:

- **Virtualization:** It provides a Virtual environment for the user to run another OS in the virtual environment in the same machine.
- **Servers:** It can be a data server, hosting server.
- **Storage:** It provides us data storage facility and working environment.
- **Network Security:** The Oracle Cloud Infrastructure Networking service offers a customizable private network (a VCN, or virtual cloud network) to customers, which enforces logical isolation of customer Oracle Cloud Infrastructure resources

## User Manages Services:

- **Applications:** User can set up their work environment in these machines.
- **Data:** Save their data and backup it easily and perform CRUD operation.
- **Runtime:** These machines provide a runtime environment where we can use these machines through CLI (Command Line Interface) remotely(Eg: Ubuntu server, Debian 9 server).
- **Middleware:** In this we can integrate our application and there is no bound of programming

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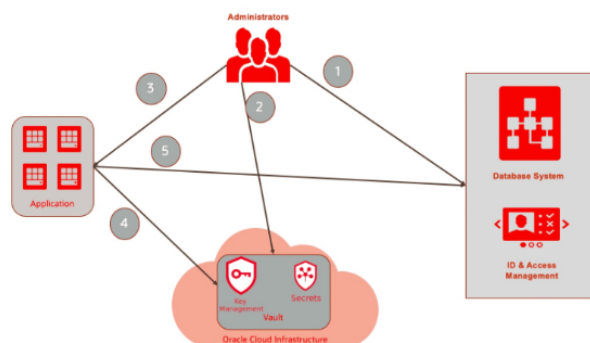
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**OS:** User can install its working environment(Eg: the OS can run spring boot web application)

## Security Services

	Use case	Service
Identity and Access Management	Manage user access and policies	OCI IAM
	Manage multi-factor authentication	MFA
	Single sign-on to identity providers	Federation
Data Protection	Encryption for data at rest, in-transit	Storage and DB services
	Discover, classify and protect your data	Data Safe
	Hardware based key storage	Key Management
OS and workload management	Centralized key management	Key Management
	Patch Management	OS Management service
	Workload isolation	Bare Metal, Dedicated VM Hosts
Infrastructure Protection	Network security controls	VCN NSG, SL
	Filter Malicious web traffic	Web Application Firewall
	DDoS Protection	In-built

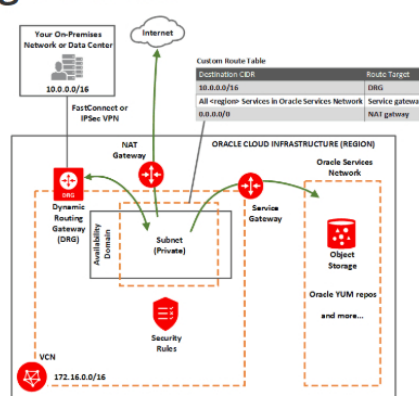
- ## Key Management



Vault is a kind of bucket that stores all the keys which we generate.

To know more about KMS and how to create a key <https://k21academy.com/1z099716>

## Networking Services



Amazon AWS Solution Architect

Apps DBA R12

AutoScaling\_OCI

## Big Data Hadoop

## Big Data Hadoop Dev

## DBA To Cloud DBA

## Dell Boomi Platform

## DevOps Foundation

## Docker Kubernetes

## EBS with IDCS

## Exadata

Hybrid\_Dataguard\_OCI

java cloud service

Microsoft Azure

- AI-100
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## Oracle Access Manager

## Oracle Apps Upgrade - 12.2

## Oracle Cloud

## Oracle Cloud Certification (1Z0-160)

Oracle Compute Cloud Services –  
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## Oracle Database

- Performance Tuning On-Premise & Cloud
- 
- Oracle Database Cloud
- Autonomous Database
  - DBA To Cloud DBA

Oracle E-Business Suite(R12.2)  
Upgrade

## oracle EBS – OAM Integration

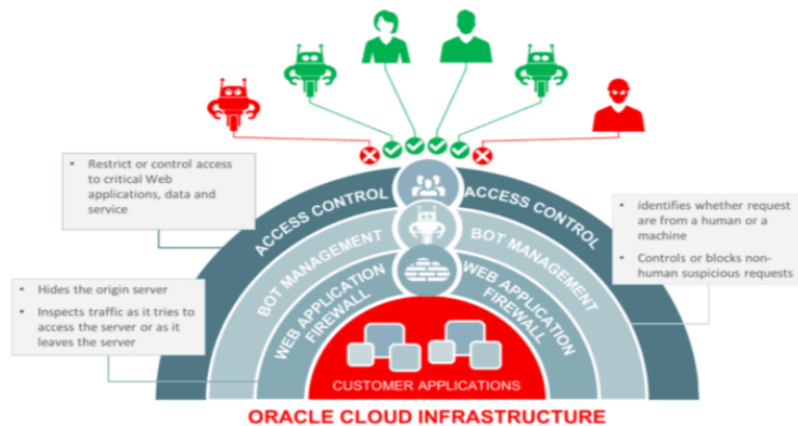
Virtual Cloud Network (VCN) is used in the OCI environment.

#### Components of Networking:

- Subnets
- Route Tables
- Internet Gateways
- Dynamic Routing Gateways (DRG)
- Security Lists
- DHCP Options
- Local Peering Gateways
- Service Gateways

For more about networking Components <https://k21academy.com/oci18>

## WAF (Web Application Firewall)



WAF helps to **protect Web Application** and monitored HTTP traffic. It protects our web application from attacks such as file inclusion, SQL injection, DDOS attack, etc.

For more information regarding WAF <https://k21academy.com/1z099713>


## Related/Further Readings

- [1Z0-1072 | Oracle Cloud Infrastructure 2019 Architect Associate](#)
- [1Z0-932 V/S 1Z0-1072: Oracle Cloud Infra Architect Associate Certification](#)
- [Compartment in Oracle Cloud Infrastructure\(OCI\)](#)
- [Oracle Cloud \(OCI\) Dedicated Virtual Machine Hosts](#)
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- 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

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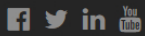
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