

ORACLE CLOUD INFRASTRUCTURE GUIDE



Version 0.0.3

Damian Ndunda

MUGUMOINI - NAIROBI

ORACLE CLOUD INFRASTRUCTURE GUIDE

Copyright © March 2020 BICT Solutions.

Visit <https://businessict.weebly.com/cloud-computing.html>

Trademarks used belong Oracle Inc. Icons used are reproduced from Oracle Cloud web Trademark information about all of the companies and products mentioned herein are provided accordingly but cannot guarantee the accuracy of all information as information changes with time.

CONTENTS AT A GLANCE

ORACLE CLOUD INFRASTRUCTURE GUIDE.....	1
CONTENTS AT A GLANCE.....	3
TABLE OF CONTENTS.....	4
FOREWORD	8
CHAPTER INTRODUCTION TO ORACLE CLOUD	15
CHAPTER: SIGNING UP AND SIGNING IN FOR THE FIRST TIME	26
CHAPTER: USING THE CONSOLE	36
CHAPTER: GETTING STARTED WITH THE COMMAND LINE INTERFACE	53
CHAPTER: FREQUENTLY ASKED QUESTIONS.....	88
REFERENCES.....	91

TABLE OF CONTENTS

ORACLE CLOUD INFRASTRUCTURE GUIDE	1
CONTENTS AT A GLANCE	3
TABLE OF CONTENTS	4
FOREWORD	8
ORACLE CLOUD INFRASTRUCTURE SERVICES.....	8
SUPPORTED PLATFORM SERVICES	13
REST API ENDPOINTS FOR PLATFORM SERVICES	14
SUPPORT FOR ORACLE APPLICATIONS.....	14
CHAPTER INTRODUCTION TO ORACLE CLOUD	15
1 ACCESSING ORACLE CLOUD INFRASTRUCTURE	15
• Oracle Cloud Infrastructure Console.....	15
• Oracle Cloud Infrastructure APIs.....	15
• SDKs	15
• Command Line Interface (CLI).....	15
• Terraform	15
• Ansible.....	16
• Resource Manager	16
2 KEY CONCEPTS AND TERMINOLOGY	16
BARE METAL HOST.....	16
REGIONS AND availability domains.....	16
REALM.....	17
CONSOLE	17
Tenancy	17
Compartments.....	17
Security Zones	17
VIRTUAL CLOUD NETWORK (VCN)	17

INSTANCE	17
IMAGE	18
SHAPE.....	18
KEY PAIR	18
• Instance SSH Key pair:	18
• API signing key pair:.....	18
BLOCK VOLUME	18
OBJECT STORAGE	19
BUCKET	19
ORACLE CLOUD IDENTIFIER (OCID).....	19
3 ORACLE CLOUD INFRASTRUCTURE FREE TIER	19
Getting Started.....	19
When Your Trial Period Ends	19
Always Free Resources.....	19
Quickly Launch Your Always Free Resources Using Resource Manager	20
To provision your Always Free using Terraform and Resource Manager.....	20
4 DETAILS OF THE ALWAYS FREE RESOURCES	21
Compute	21
Database	21
Load Balancing	22
Block Volume	22
Object Storage	22
Vault.....	23
5 SIX FREQUENTLY ASKED QUESTIONS: ORACLE CLOUD INFRASTRUCTURE FREE TIER	24
How do I change which resources I want to designate as Always Free?	24
What happens when my Free Trial expires or my credits are used up?	24
If I upgrade, do I keep my Free Trial credit balance?	24
I get an "out of host capacity" error when I try to create an Always Free Compute instance. What can I do?	24
Is it possible to extend my Free Trial?	24
Is my Free Tier account eligible for support?.....	25
6 GETTING STARTED.....	25
Upgrading to a Paid Account	25

CHAPTER: SIGNING UP AND SIGNING IN FOR THE FIRST TIME	26
1 UNDERSTANDING THE SIGN-IN OPTIONS.....	26
About the Sign In Options.....	26
Oracle Cloud Infrastructure IAM	28
Oracle Identity Cloud Service	28
When to Use Each Sign-In Option.....	29
2 SIGNING IN TO THE CONSOLE	34
Supported Browsers	34
About the Console URL	34
List of regional Console URLs	34
 CHAPTER: USING THE CONSOLE	 36
1 UNDERSTANDING COMPARTMENTS.....	36
2 START EXPLORING	37
3 UNDERSTANDING COMPARTMENTS.....	38
4 NAVIGATING TO ORACLE CLOUD INFRASTRUCTURE SERVICES	40
5 NAVIGATING TO MORE ORACLE CLOUD SERVICES FROM THE CONSOLE.....	45
6 FILTERING THE DISPLAYED LIST OF RESOURCES.....	48
State:.....	48
Availability Domain:	48
Tags:	48
To filter a list of resources by a defined tag	48
To filter a list of resources by a free-form tag	49
7 SWITCHING REGIONS	49
8 WORKING ACROSS REGIONS	50
9 SWITCHING LANGUAGES.....	51
 CHAPTER: GETTING STARTED WITH THE COMMAND LINE INTERFACE	 53
1 ABOUT THE COMMAND LINE INTERFACE (CLI)	53
Getting Help with Commands.....	53
2 WORKING IN A COMPARTMENT	54
Choose a Compartment	54
Create a Compartment	55

3 CREATING A VIRTUAL CLOUD NETWORK	56
4 PREPARING TO LAUNCH AN INSTANCE	69
5 LAUNCHING A LINUX INSTANCE	72
6 LAUNCHING A WINDOWS INSTANCE	78
7 CONNECTING TO YOUR INSTANCES	80
8 CLEANING UP THE TEST ENVIRONMENT	82
Terminate the Instances	85
Delete the Virtual Cloud Network.....	86
9 TERRAFORM OVERVIEW.....	87
Installing Terraform and the Terraform Provider with Yum	87
CHAPTER: FREQUENTLY ASKED QUESTIONS.....	88
1 HOW DO I GET TO MY IDCS CONSOLE?	88
2 MY TEAM NEEDS REPORTS THAT WERE ONLY AVAILABLE FROM MY SERVICES. HOW CAN I GET BACK TO THE OLD DASHBOARD?.....	88
3 HOW DO I FIND MY TENANCY HOME REGION?	89
4 WHY CAN'T I SIGN IN USING FIREFOX?	89
5 WHERE DO I FIND MY TENANCY OCID?.....	90
REFERENCES.....	91