Essential Cloud Operations (lab2)

2.1.1 IaC with Terraform

2.2 Block Storage Backup

Block Storage » Block Volumes » Block Volume Details

BlockVolume1 `Always Free`

[Edit] [Move Resource] [Add tags] [Terminate]

Block Volume Information | Tags

Availability Domain: VOwX:eu-amsterdam-1-AD-1
Compartment: h20asmhu (root)/Sandbox
OCID: ...l7pcya Show Copy
Created: Thu, Mar 16, 2023, 15:29:57 UTC
Size: 50 GB ⓘ

Auto-tune Performance Policies
Performance Based Auto-tune: Off ⓘ
Detached Volume Auto-tune: Off ⓘ

Performance
Performance: Balanced (VPU/GB:10) ⓘ

Hydrated: true
Encryption Key: Oracle-managed key Assign
Volume Group: None

Scheduled Backups
Managed by: Volume ⓘ
Backup Policy: Gold ⓘ
Cross Region Copy Target: None ⓘ

Cross Region Replication
Managed by: Volume ⓘ
Cross Region Replication: Off ⓘ

AVAILABLE

Search resources, services, documentation, and Marketplace   Netherlands Northwest (Amsterdam) ⌄

Block Volume Backups *in* Sandbox *Compartment*

Name	State	Backup Source	Source Region	Backup Type	Backup Size / Volume Size (in GB)	Source Type	Expiration	Created ▾
Backup_1 `Always Free`	● Available	BlockVolume1	Netherlands Northwest (Amsterdam)	Full	1 / 50	Manual		Thu, Mar 16, 2023, 15:33:32 UTC

Showing 1 Item   ‹ 1 of 1

2.5.1 OCI MFA

Identity domain ⓘ
Default

Enable Secure Verification

Secure verification methods prove who you are. Two types of verification methods are passwordless and multi-factor authentication (MFA). Passwordless verification allows you to verify your identity without requiring you to remember a password. MFA is an extra security step to the authentication process. Your administrator might have set up one or both verification methods and require that you enroll in them before accessing your account.

Password   Proof   Secure Access
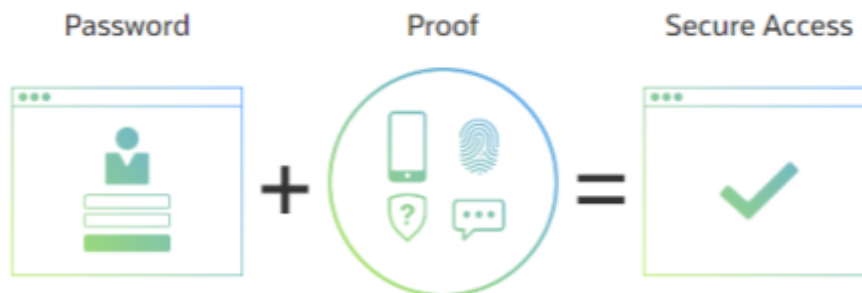
Click below to enable secure verification methods for your account.

Enable Secure Verification

ORACLE Cloud

h20asmhu

h20asmhu@du.se

Identity domain ⓘ
Default

A notification has been sent to **iPhone** . Open the notification, and then tap **Allow** to continue
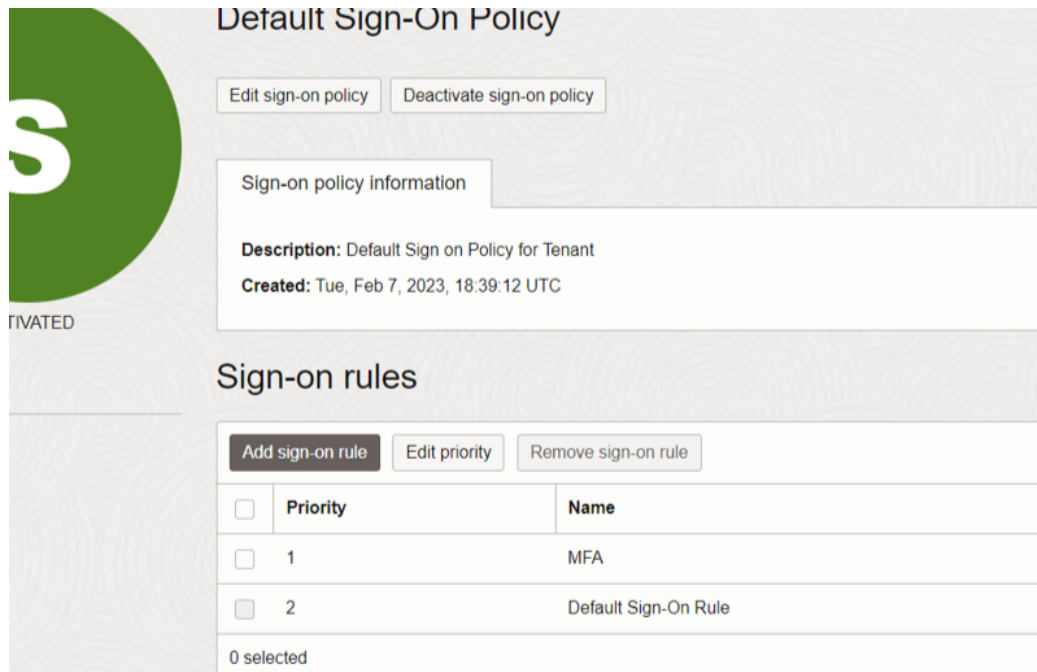
☐ Trust this device for 15 day(s)

Show alternative login methods
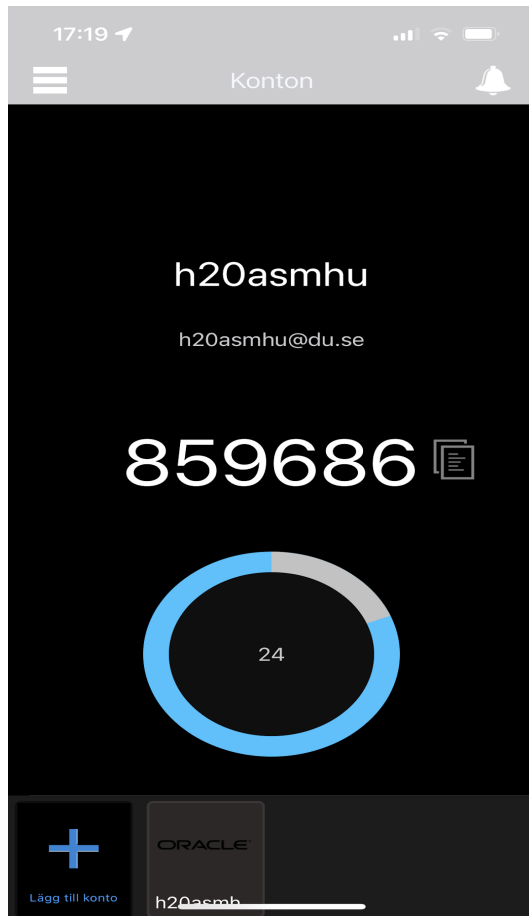
When I was doing this task, I accidentally locked myself out so I was not able to login. I could not use my admin account because I have changed account priority to MFA before.

Default Sign-On Policy

Edit sign-on policy   Deactivate sign-on policy

Sign-on policy information

Description: Default Sign on Policy for Tenant

Created: Tue, Feb 7, 2023, 18:39:12 UTC

ACTIVATED

Sign-on rules

Add sign-on rule   Edit priority   Remove sign-on rule
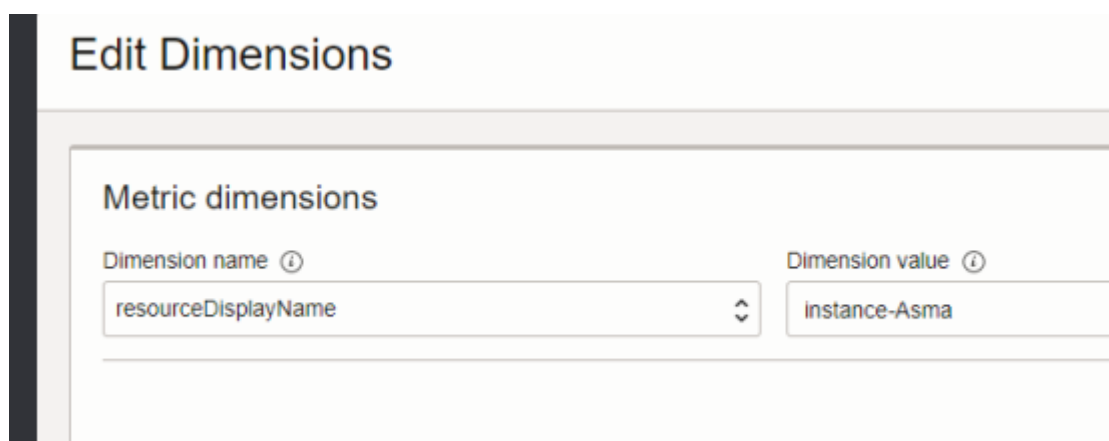
	Priority	Name
☐	1	MFA
☐	2	Default Sign-On Rule

0 selected

So there is no way for me to login. I have emailed Oracle help. I am waiting for their response. Meanwhile, I have tried to create new Oracle accounts, but it did not work at all.

So I have used Laila Assadis account to do the rest of the lab. I hope that is acceptable.

2.6.1 Cloud logging

Edit Dimensions

Metric dimensions

Dimension name ⓘ

resourceDisplayName

Dimension value ⓘ

instance-Asma

public_subnet_VCN

[Disable Log] [Edit] [Change Log Group] [Add tags] [Delete]

Log Information   Tags

OCID: ...u43pjq Show Copy

Compartment: h20laias (root)

Log Group: LogG1

Created: Fri, Mar 17, 2023, 13:03:43 UTC

Retention Period: 1 month (default) (30 days)

Legacy Archival Logs: Disabled

Status: ● Active

Log Details

Log Type: Service log

Service: Virtual Cloud Network - subnets

Log Category: Flow Logs - All records

Resource: public subnet-lab1

Explore Log

Sort

| Newest ⌄ |

Filter by time

| Past 5 minutes ⌄ |

⌄ Number of log events per minute

```
45
30
15
 0
      Mar 17, 13:54    Mar 17, 13:55    Mar 17, 13:56    Mar 17, 13:57
```
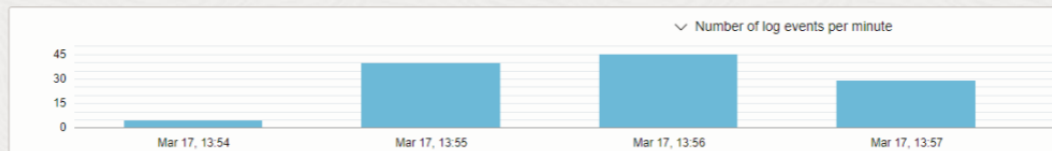
2.7.1 Monitoring, Alarms, Notifications Via a Cloud Agent

Email *subscription on* Demo_Asma to|

S

ACTIVE

| Subscription Information | Tags |

OCID: ...c6tc7y2ewa Show Copy

Compartment: h20laias (root)

Topic: Demo_Asma

Protocol: Email

Endpoint: h20asmhu@du.se

Delivery Policy: Retry Policy Type: exponential

                       Initial Failure Retry Delay in Minutes: 1

☑ Alarm is enabled | Suppress alarm | Move Resource | Actions ▼

✅ CPU Usage
Ok

SUMMARY	Alarm fires when the **Max** of **CpuUtilization** is **greater than** the threshold value of **50**, with a trigger delay of **a minute**.
ALARM SEVERITY	◆ Critical
ALARM BODY	High CPU Usage

ALARM DETAILS				
	Compartment:	h20laias (root)	**Notifications:**	
	OCID:	...fc77iaiypa Show Copy		
	Namespace:	oci_computeagent	**Destination:**	Notifications
	Resource group:	All resource groups	**Topic:**	Demo_Asma
	Metric:	CpuUtilization	**Notifications grouping:**	Group notifications across metric streams
	Statistic:	max()	**Message Format:**	Formatted messages
	Interval:	1m	**Repeat notification:**	Does not repeat
	Aggregation:	None	**Suppression:**	Not suppressed
	Dimensions:	No dimensions		
	Last updated:	Mar 17, 2023, 13:28:36 UTC		

TAGS	**Defined tags (2)**
	Oracle-Tags.CreatedBy: default/h20laias@du.se

```
After this operation, 49.2 kB of additional disk space will be used.
Get:1 http://eu-amsterdam-1-ad-1.clouds.ports.ubuntu.com/ubuntu-ports bionic/universe arm64 stress arm64 1.0.4-2 [16.9 k
B]
Fetched 16.9 kB in 0s (639 kB/s)
Selecting previously unselected package stress.
(Reading database ... 64012 files and directories currently installed.)
Preparing to unpack .../stress_1.0.4-2_arm64.deb ...
Unpacking stress (1.0.4-2) ...
Setting up stress (1.0.4-2) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for install-info (6.5.0.dfsg.1-2) ...
ubuntu@instance-asma:~$ sudo stress --cpu 10 --timeout 90
stress: info: [16426] dispatching hogs: 10 cpu, 0 io, 0 vm, 0 hdd
stress: info: [16426] successful run completed in 90s
ubuntu@instance-asma:~$
```

○ Enabling Service Logs

Sök

Asma Osman Hus...

Hem | Visa | Hjälp

Ny e-post | Ta bort | Arkiv | Rapportera | Rensa | Flytta till | Svara | Svara alla | Vidarebefordra | Snabbsteg | Läst / Oläst | Kategorisera | Flagga/ta bort flagga | Fäst/ta bort | Snooza | Tilldela princip

Webbläsaren stöder att Outlook på webben är inställd som standardhante... Testa nu Fråga igen senare Visa inte igen

> Favoriter

∨ Mappar

Inkorg 505

Utkast 34

Skickat

Borttagna o... 1

Skräppost 4

Arkiv

Anteckningar 1

Konversations...

Skapa ny mapp

∨ Grupper

Upptäck grup...

Hantera grupp...

Inkorg ★ Filter

noreply@notification.eu-amsterda...
CPU Usage 14:51
You don't often get email from more...

noreply@notification.eu-amsterdam...
CPU Usage 14:47
You don't often get email from more...

noreply@notification.eu-amsterdam...
Oracle Cloud Infrastructure N... 14:20
You don't often get email from more...

Thomas Kvist - tkv@du.se
GDT2KB (VT23, 50%, Dag, No... 08:59
Hej, vänligen notera att vaktmästerie...

I går

noreply@du.se
Dagliga aviseringar Tor 23:05
Your updates Kursadministration och...

Hans Jones (HDa)
> Oracle cloud Tor 21:22
Hej Asma! Du har två inloggningsko...

LinkedIn Learning
Asma, explore these cours... Tor 19:59
Check out these recommendations a...

postmaster@oracle.onmicrosof...
> [External] : My account i... Tor 17:53
You don't often get email from post...

Oracle Cloud
Oracle Cloud Access Details Tor 17:49
You don't often get email from oracl...

CPU Usage

Alarm Name: CPU Usage

Severity
CRITICAL

Status
FIRING

Body
High CPU Usage

Time
2023-03-17T13:44:00Z

Query
CpuUtilization[1m].max() > 50

Alarm OCID
ocid1.alarm.oc1.eu-amsterdam-
1.aaaaaaaawrwkf5e3njhlfxq25gd4nznhxvdu6w2nnr4y4nwjusfc77iaiypa

Type
OK_TO_FIRING

Number of metrics breaching threshold
1

Dimensions
[{ "instancePoolId": "Default", "resourceDisplayName": "instance-Asma", "faultDomain": "FAULT-
DOMAIN-2", "resourceId": "ocid1.instance.oc1.eu-amsterdam-
1.anqw2jrlacd53yclutrgnin5b5zbe6jfvemwgrbdxvim36pifdtyzdqelumq", "availabilityDomain":
"pxkA:eu-amsterdam-1-AD-1", "imageId": "ocid1.image.oc1.eu-amsterdam-
1.aaaaaaaavjwoy5mqvixhiza3d5igc5ziv5tr5ajo22fkj2u22p5qej6uqi5oa", "region": "eu-amsterdam-1",
"shape": "VM.Standard.A1.Flex" }]

Dedupe key
b7dc48b6-256c-4819-a725-b7f3ca453cba

[View Alarm in Console]