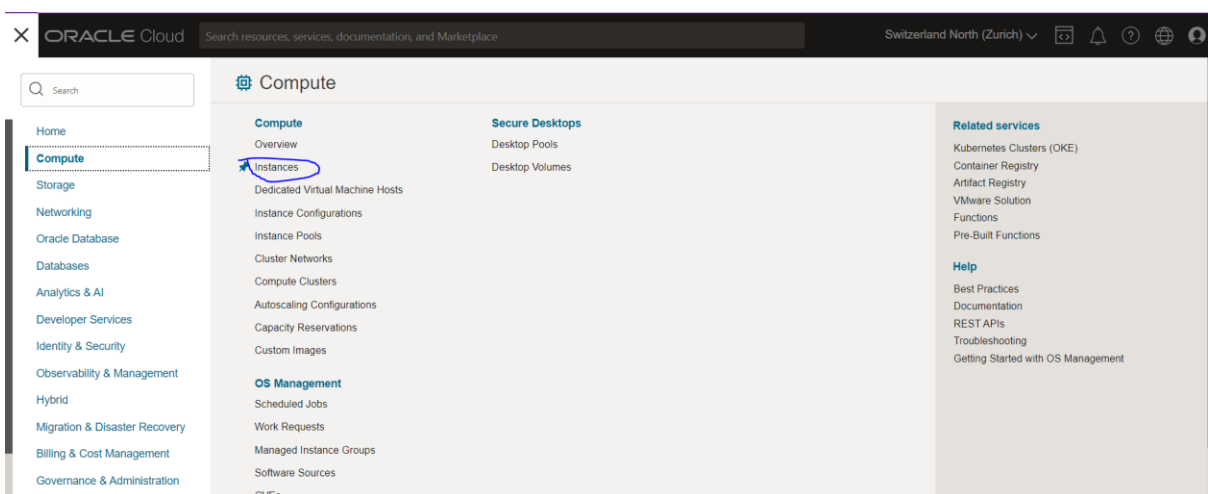
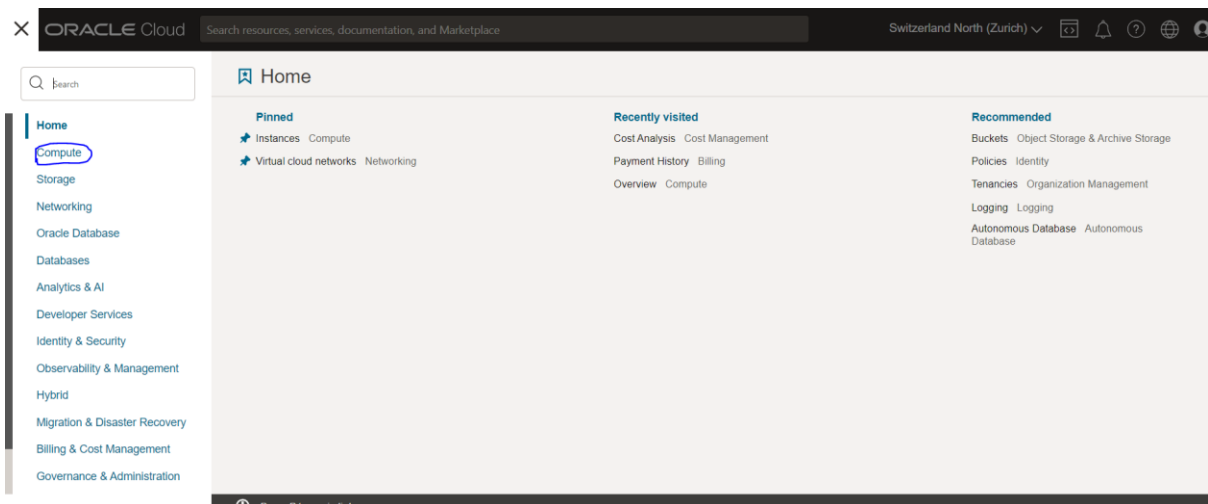
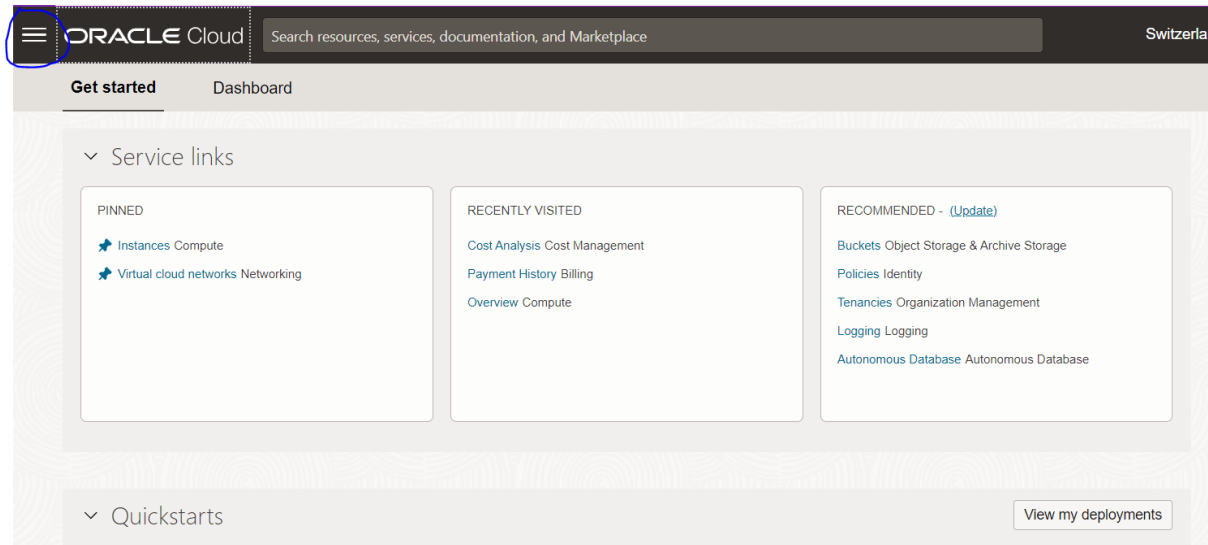


Step By Step Guide furs Deployoment



ORACLE Cloud

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Switzerland North (Zurich)

Compute

Instances in dpejic (root) compartment

An **Instance** is a compute host. Choose between virtual machines (VMs) and bare metal instances. The image that you use to launch an instance determines its operating system and other software.

Create Instance

Actions

	Name	State	Public IP	Private IP	Shape	OCPU count	Memory (GB)	Availability domain	Fault domain
--	------	-------	-----------	------------	-------	------------	-------------	---------------------	--------------

Create compute instance

Create an instance to deploy and run applications, or save as a reusable Terraform stack for creating an instance with Resource Manager.

Name

instance-20240410-0912

Create in compartment

dpejic (root)

Placement

Availability domain: AD-1 **Always Free-eligible**

Capacity type: On-demand capacity

Security

Shielded instance: Disabled

Confidential computing: Disabled

Image and shape

Image: Oracle Linux 8

Image build: 2024.02.25-0

Shape: VM.Standard.E2.1.Micro **Always Free-eligible**

OCPU count: 1

Memory (GB): 1

Network bandwidth (Gbps): 0.48

Primary VNIC information

Virtual cloud network: vcn-20240101-1517

Subnet: subnet-20240101-1517

Launch options: -

DNS record: Yes

Use network security groups to control traffic: No

Assign a public IPv4 address: Yes

Private IPv4 address: Automatically assigned on creation

IPv6 address: Not available

Add SSH keys

Generate an [SSH key pair](#) to connect to the instance using a Secure Shell (SSH) connection, or upload a public key that you already have.

☒ Generate a key pair for me ☐ Upload public key files (.pub) ☐ Paste public keys ☐ No SSH keys

Download the private key so that you can connect to the instance using SSH. It will not be shown again.

Save private key

Save public key

Create

Save as stack

Cancel

Terms of Use and Privacy

Cookie Preferences

Man muss das Image zu Ubuntu 22.04 umändern.

Image and shape

A **shape** is a template that determines the number of CPUs, amount of memory, and other resources allocated to an instance. The image is the operating system that runs on top of the shape.

Image

Oracle Linux 8

Image build: 2024.02.25-0

Change image

Shape

AMD VM.Standard.E2.1.Micro **Always Free-eligible**

Virtual machine, 1 core OCPU, 1 GB memory, 0.48 Gbps network bandwidth

Change shape

Select an image

Oracle Linux

Windows

My images

Ubuntu

AlmaLinux

Red Hat

Rocky Linux

CentOS

Marketplace

Compartment

dpajc (root)

Image name

Publisher

Price

Security

☐ Canonical Ubuntu 18.04

Oracle

Free

☐ Canonical Ubuntu 18.04 Minimal

Oracle

Free

☐ Canonical Ubuntu 20.04

Oracle

Free

☐ Canonical Ubuntu 20.04 Minimal

Oracle

Free

☒ Canonical Ubuntu 22.04

Oracle

Free

[View compatible shapes](#)

Image build

2024.02.18-0

☐ Canonical Ubuntu 22.04 Minimal

Oracle

Free

☐ Canonical Ubuntu 22.04 Minimal aarch64

Oracle

Free

1 selected

Showing 7 items < 1 of 1 >

Select image

Cancel

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Create compute instance

Instance-20240410-0912

Create in compartment

dpajc (root)

Placement

Availability domain: AD-1

Fault domain: Let Oracle choose the best fault domain

Capacity type: On-demand capacity

Security

Shielded instance: Disabled

Confidential computing: Disabled

Image and shape

A [shape](#) is a template that determines the number of CPUs, amount of memory, and other resources allocated to an instance. The image is the operating system that runs on top of the shape.

Image

Canonical Ubuntu 22.04

Image build: 2024.02.18-0

Change image

Shape

VM Standard E2.1.Micro

Virtual machine, 1 core OCPU, 1 GB memory, 0.48 Gbps network bandwidth

Change shape

Primary VNIC information

Virtual cloud network: vcn-20240101-1517

Subnet: subnet-20240101-1517

Launch options: -

DNS record: Yes

Use network security groups to control traffic: No

Assign a public IPv4 address: Yes

Private IPv4 address: Automatically assigned on creation

IPv6 address: Not available

Add SSH keys

Create

Save as stack

Cancel

Die VM.Standard.Flex Shape ist für unseren Fall die beste. Hier kann man den RAM und die CPUs flexibel einstellen und ggf. in der Zukunft anpassen. Wir brauchen mindestens 4GB RAM.

Browse all shapes

A **shape** is a template that determines the number of CPUs, amount of memory, and other resources allocated to a newly created instance.

Don't see the shape you want?
To access all shapes, [upgrade](#). You'll pay only for what you use, no minimum terms and no prepayments.

[Upgrade](#)

Instance type

Virtual machine Always Free shape
A virtual machine is an independent computing environment that runs on top of physical bare metal hardware.

Bare metal machine
A bare metal compute instance gives you dedicated physical server access for highest performance and strong isolation.

Shape series

AMD
Flexible OCPU count. Current generation AMD processors.

Intel
Flexible OCPU count. Current generation Intel processors.

Ampere
Arm-based processor.

Specialty and previous generation
Always Free, Dense I/O, GPU, HPC, Generic, and earlier generation AMD and Intel standard shapes.

Image: Canonical Ubuntu 22.04

Shape name	OCPU	Memory (GB)	Security
<input type="checkbox"/> VM.Standard.E2.1.Micro <small>Always Free shape</small>		1	1
<input checked="" type="checkbox"/> VM.Standard.E3.Flex	1 (114 max)	16 (1,776 max)	

Network bandwidth (Gbps): 0.48
Maximum VNICS: 1
Local disk: Block storage only
Processor: 2.0 GHz AMD EPYC™ 7561 (Naples)

Network bandwidth (Gbps): 1
Maximum VNICS: 2
You can customize the number of OCPUs and the amount of memory allocated to a flexible shape. The other resources scale proportionately. [Learn more about flexible shapes.](#)

Number of OCPUs
1

Amount of memory (GB)
16

Extended OCPU
Extended memory

Burstable

[Burstable instances](#) are virtual machine (VM) instances that provide a baseline level of CPU performance with the ability to burst to a higher level to support occasional increases in usage.

[Select shape](#) [Cancel](#)

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WICHTIG: Speichere den Public Key und den Private Key unbedingt ab. Diese können später nicht mehr aufgerufen werden.

Create compute instance

VM.Standard.E3.Flex
Virtual machine. 1 core OCPU, 4 GB memory, 1 Gbps network bandwidth

[Change shape](#)

Primary VNIC information

Virtual cloud network: vcn-20240101-1517
Subnet: subnet-20240101-1517
Launch options: -
DNS record: Yes

Use network security groups to control traffic: No
Assign a public IPv4 address: Yes
Private IPv4 address: Automatically assigned on creation
IPv6 address: Not available

Add SSH keys

Generate an [SSH key pair](#) to connect to the instance using a Secure Shell (SSH) connection, or upload a public key that you already have.

☒ Generate a key pair for me ☐ Upload public key files (.pub) ☐ Paste public keys ☐ No SSH keys

Download the private key so that you can connect to the instance using SSH. It will not be shown again.

[Save private key](#) [Save public key](#)

Boot volume

A **boot volume** is a detachable device that contains the image used to boot the compute instance.

☐ Specify a custom boot volume size
[View performance](#) varies with volume size. Default boot volume size: 40.9 GB. When you specify a custom boot volume size, service limits apply.

☐ Use in-transit encryption
[Encrypt data](#) in transit between the instance, the boot volume, and the block volumes.

☐ Encrypt this volume with a key that you manage
By default, Oracle manages the keys that encrypt the volumes, but you can choose a key from a vault that you have access to if you want greater control over the key's lifecycle and how it's used. [How do I manage my own encryption keys?](#)

Block volumes

[Attach block volume](#)

Name	Attachment type	Create type	Access
Create Save as stack Cancel			

Based on the user and instance. Oracle Performance

Portforwarding

Als erstes gehen wir auf unser Subnet.

General information

Availability domain: AD-1

Fault domain: FD-2

Region: eu-zurich-1

OCID: [jpxdewa](#) [Show](#) [Copy](#)

Launched: Wed, Apr 10, 2024, 07:25:21 UTC

Compartment: dpejic (root)

Capacity type: On-demand

Instance details

Virtual cloud network: [vcn-20240101-1517](#)

Maintenance reboot: -

Image: [Canonical-Ubuntu-22.04-2024.02.18-0](#)

Launch mode: PARAVIRTUALIZED

Instance metadata service: Versions 1 and 2 [Edit](#) ⓘ

Live migration: Enabled [Change](#)

Maintenance recovery action: Restore instance

Shape configuration

Shape: VM.Standard.E3.Flex

OCPU count: 1

Network bandwidth (Gbps): 1

Memory (GB): 4

Local disk: Block storage only

Instance access

You [connect to a running Linux instance](#) using a Secure Shell (SSH) connection. You'll need the private key from the SSH key pair that was used to create the instance.

Public IP address: 152.67.72.184 [Copy](#)

Username: ubuntu

Primary VNIC

Public IPv4 address: 152.67.72.184

Private IPv4 address: 10.0.0.161

Network security groups: None [Edit](#) ⓘ

Subnet: [subnet-20240101-1517](#)

Private DNS record: Enable

Hostname: instance-20240410-0912

Internal FQDN: instance-20240410-0912... [Show](#) [Copy](#)

Launch options

NIC attachment type: PARAVIRTUALIZED

Remote data volume: PARAVIRTUALIZED

Firmware: UEFI_64

Boot volume type: PARAVIRTUALIZED

In-transit encryption: Disabled

Secure Boot: Disabled

Measured Boot: Disabled

Trusted Platform Module: Disabled

Confidential computing: Disabled

Hier gehen wir auf unser Default Subnet und fügen Ingress Rules hinzu.

Networking > Virtual cloud networks > vcn-20240101-1517 > Subnet Details

subnet-20240101-1517

[Edit](#) [Move resource](#) [Add tags](#) [Create path analysis](#) [Terminate](#)

Subnet Information

OCID: [jllcqa](#) [Show](#) [Copy](#)

IPv4 CIDR Block: 10.0.0.0/24

IPv6 Prefix: -

Virtual Router MAC Address: 00:00:17:C0:08:25

Subnet Type: Regional

Compartment: dpejic (root)

DNS Domain Name: [subnet01011524...](#) [Show](#) [Copy](#)

Subnet Access: Public Subnet

DHCP Options: [Default DHCP Options for vcn-20240101-1517](#)

Route Table: [Default Route Table for vcn-20240101-1517](#)

Resources

Security Lists (1)

[Logs](#)

[IPv6 Prefixes \(-\)](#)

[Tag filters](#) [add](#) [clear](#)

no tag filters applied

Security Lists

Add Security List

Name	State	Compartment	Created
Default Security List for vcn-20240101-1517		dpejic (root)	Mon, Jan 1, 2024, 14:24:26 UTC

Showing 1 item < 1

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Switzerland North (Zurich)

SL

[Move resource](#) [Add tags](#) [Terminate](#)

Security List Information

OCID: [g7hneq](#) [Show](#) [Copy](#)

Created: Mon, Jan 1, 2024, 14:24:26 UTC

Compartment: dpejic (root)

Resources

Ingress Rules

[Add Ingress Rules](#) [Edit](#) [Remove](#)

Die Destination Port Range kann entweder ein einziger oder eine Range sein(z.B. 5000-6000).

Source Type:CIDR

Source CIDR: 0.0.0.0/0

IP Protocol: TCP

Source Port Range: 80

Destination Port Range: All

Add Ingress Rules

Ingress Rule 1

Allows TCP traffic All

☐ Stateless ⓘ

Source Type

CIDR

Source CIDR

0.0.0.0/0

Specified IP addresses: 0.0.0.0-255.255.255.255 (4,294,967,296 IP addresses)

IP Protocol ⓘ

TCP

Source Port Range Optional ⓘ

80

Examples: 80, 20-22

Destination Port Range Optional ⓘ

All

Examples: 80, 20-22

Description Optional

Maximum 255 characters

+ Another Ingress Rule

Add Ingress Rules

Cancel

<div><div>General information</div><div><div>Availability domain: AD-1</div><div>Fault domain: FD-2</div><div>Region: eu-zurich-1</div><div>OCID: ...jdewa Show Copy</div><div>Launched: Wed, Apr 10, 2024, 07:25:21 UTC</div><div>Compartment: dpejic (root)</div><div>Capacity type: On-demand</div></div><div><div>Instance details</div><div><div>Virtual cloud network: vcn-20240101-1617</div><div>Maintenance reboot: -</div><div>Image: Canonical-Ubuntu-22.04-2024.02.18-0</div><div>Launch mode: PARAVIRTUALIZED</div><div>Instance metadata service: Versions 1 and 2 Edit ⓘ</div><div>Live migration: Enabled Change</div><div>Maintenance recovery action: Restore instance</div></div><div><div>Shape configuration</div><div><div>Shape: VM.Standard.E3.Flex</div><div>OCPU count: 1</div><div>Network bandwidth (Gbps): 1</div><div>Memory (GB): 4</div><div>Local disk: Block storage only</div></div></div></div><div><div>Instance access</div><div><div>You connect to a running Linux instance using a Secure Shell (SSH) connection. You'll need the private key from the SSH key pair that was used to create the instance.</div><div><div>Public IP address: 152.67.72.184 Copy</div><div>Username: ubuntu</div></div><div><div>Primary VNIC</div><div><div>Public IPv4 address: 152.67.72.184</div><div>Private IPv4 address: 10.0.0.161</div><div>Network security groups: None Edit ⓘ</div><div>Subnet: subnet-20240101-1517</div><div>Private DNS record: Enable</div><div>Hostname: instance-20240410-0912</div><div>Internal FQDN: instance-20240410-0912... Show Copy</div></div><div><div>Launch options</div><div><div>NIC attachment type: PARAVIRTUALIZED</div><div>Remote data volume: PARAVIRTUALIZED</div><div>Firmware: UEFI_64</div><div>Boot volume type: PARAVIRTUALIZED</div><div>In-transit encryption: Disabled</div><div>Secure Boot: Disabled</div><div>Measured Boot: Disabled</div><div>Trusted Platform Module: Disabled</div><div>Confidential computing: Disabled</div></div></div></div></div></div></div>
--

SSH

Damit man sich mit der VM via SSH verbinden kann, kann man sich die Remote Explorer Extension in VS Code installieren. Danach gibt man die IP Adresse ein und bearbeitet die SSH Config.

BSP. Für eine SSH Config:

```
Host peppervm-20240117-0831
  HostName your-ip-address
  User ubuntu
  IdentityFile C:\Users\danij\.ssh\ssh-key-2024-01-17.key
```

Weitere Schritte

Linux Distribution updaten und upgraden

Docker installieren

Dotnet installieren

Dotnet EF installieren

Git Installieren

Pepper Github Repo clonen