

# Getting Started Guide

## Overview

This getting started guide will explain how to launch a NetFoundry application gateway in OCP(Oracle Cloud Platform) Compute

## Launching an instance in OCP

### Pre Deployment



#### Important

The BYOL (Bring Your Own License) licensing model is one that relies on your purchasing a software license separately from our website [here](#) and registering your appliance with generated one time key.




#### Important

Assumption is that the NF Fabric is already up.

### Deployment of Appliance

To get started, visit the OCP Marketplace site by clicking [here](#). If the marketplace doesn't come up, you can go to the search bar that appears, enter NetFoundry Application Gateway and click the resulting solution that appears.

## To launch the instance Click on "Get App"

 Oracle Cloud Marketplace

Oracle Cloud Home Publishers ▾ Resources ▾ [Sign In](#) English ▾



### NetFoundry Zero Trust Networking Platform

Get App >

NaaS replaces SSL and IPsec VPNs, cloud orchestrated, 2-8x higher performance than SD-WAN and VPNs

Launch Demo Self-Paced Training

Oracle Cloud Infrastructure | Security , Networking , SaaS on Oracle Cloud Platform [Contact Listing Provider](#)

★★★★★ (0) 



#### Overview

Ratings (0)

Provider

## App by NetFoundry

Instantly spin up Zero Trust, high performance, application-specific global networks at scale using NetFoundry's cloud native orchestration tools and APIs. Eliminates the need for expensive private circuits, proprietary hardware, and traditional VPNs.

Like what Oracle Cloud does for infrastructure, NetFoundry implements a fully managed Network-as-a-Service (NaaS) solution, empowering you to orchestrate and control your networks without managing the underlying infrastructure. Use the NetFoundry Platform to build and manage:

- **Multicloud Global Transit Networks** to connect datacenter, edge and users to multiple clouds
- Scale out **cloud orchestrated networking** for Egress/Ingress, VPC-to-VPC and VPC-to-OnPrem
- Multicloud and multi region **encrypted peering**

Replace SSL VPN for admin access to cloud and IPsec VPN to connect branch offices. NetFoundry software-defined overlay networks work with any SD-WAN with no disruption. Embed programmable networking into your applications and device stacks with SDKs, APIs, and developer resources.

#### Technical Benefits


- Remove the **costs and complexities of VPNs**, private APNs and proprietary hardware
- Simplify deployments with **software-defined** private overlay connections to enterprise assets
- **NaaS** provides real-time, dynamic quality optimization, minimizes latency and packet loss
- **2x to 8x better throughput** than leading VPN and SD-WAN solutions
- Flexible, **runs on top of any WAN** or Internet connection
- Natively implement **SASE and Zero Trust networking** for all clients (Win, Linux, Mac, Java, iOS, Android)
- **Secure Edge/IoT systems** with least privilege access and micro-segmentation of edge connections

#### Business Outcomes

## Select a **Region**, and Click on "Sign In"

**ORACLE** Cloud Marketplace

Oracle Cloud HomePublishers ▾Resources ▾[Sign In](#)English ▾



### Install Application

NetFoundry Zero Trust Networking Platform (Version: 7.1.0)

Oracle Cloud Infrastructure | Security , Networking , SaaS on Oracle Cloud Platform

If you have an Oracle Cloud Infrastructure account

Select OCI Region

▼

Saudi Arabia West (Jeddah)  
Netherlands Northwest (Amsterdam)  
Australia Southeast (Melbourne)  
Japan Central (Osaka)  
**Sanjose(US)**  
Chuncheon(South Korea)  
India South (Hyderabad)  
South Korea North (Seoul)  
Canada Southeast (Toronto)  
Switzerland North (Zurich)  
Japan East (Tokyo)  
Canada Southeast (Montreal)  
India West (Mumbai)  
US West (Phoenix)  
UK South (London)  
US East (Ashburn)  
Germany Central (Frankfurt)  
Australia East (Sydney)  
Brazil East (Sao Paulo)

Sign In

You will be directed to your OCI Console.

If you do not have an Oracle Cloud Infrastructure account

Sign Up

Submit your OCI account request. When your request is processed, you will be provisioned a tenancy in Oracle Cloud Infrastructure. Oracle will send you a welcome email with instructions for signing in to the Console for the first time.


If you have questions, send an email to [marketplace-help\\_us\\_grp@oracle.com](mailto:marketplace-help_us_grp@oracle.com).

## Select the **Compartment** and check the **Oracle Terms of Use** the Click on "Launch Instance"

**ORACLE** Cloud

Search for resources, services, and documentation

Marketplace » NetFoundry Zero Trust Networking Platform



### NetFoundry Zero Trust Networking Platform

NaaS replaces SSL and IPsec VPNs, cloud orchestrated, 2-8x higher performance than SD-WAN and VPNs

Instantly spin up Zero Trust, high performance, application-specific global networks at scale using NetFoundry's cloud native orchestration tools and APIs. Eliminates the need for expensive private circuits, proprietary hardware, and traditional VPNs.

Categories: Security, Networking, SaaS on Oracle Cloud Platform

Type  
Image  
Version  
7.1.3 - default  
Compartment  
Engineering  
netfoundryinc (prod)/Engineering

Software Price per OCPU  
**BYOL**  
(Bring Your Own License)  
There are additional fees for the infrastructure usage. ⓘ

☒ I have reviewed and accept the [Oracle Terms of Use](#) and the [Partner terms and conditions](#).

Launch Instance

## Select the Options:

ORACLE Cloud

Search for resources, services, and documentation

### Create Compute Instance


NAME

instance-20200613-1702

CREATE IN COMPARTMENT

Engineering  
netfoundryinc (root)/Engineering

Image or operating system



**NetFoundry Zero Trust Networking Platform**  
NaaS replaces SSL and IPsec VPNs, cloud orchestrated, 2-8x higher performance than SD-WAN and VPNs


[Hide Shape, Network, Storage Options](#)

AVAILABILITY DOMAIN

AD 1  
ITps:US-ASHBURN-AD-1

AD 2  
ITps:US-ASHBURN-AD-2

Shape



**VM.Standard.E3.Flex**  
Virtual Machine, 1 core OCPU, 16 GB memory, 1 Gbps network bandwidth

Configure networking

VIRTUAL CLOUD NETWORK COMPARTMENT

Engineering  
netfoundryinc (root)/Engineering

SELECT A VIRTUAL CLOUD NETWORK

NF-VCN-1

SUBNET COMPARTMENT

Engineering  
netfoundryinc (root)/Engineering

SUBNET

NF-SUBNET-1 (Regional)

☐ USE NETWORK SECURITY GROUPS TO CONTROL TRAFFIC

☒ ASSIGN A PUBLIC IP ADDRESS ☐ DO NOT ASSIGN A PUBLIC IP ADDRESS

Assigning a public IP address makes this instance accessible from the internet. If you're not sure whether you need a public IP address, you can always assign one later.

Boot volume

☐ SPECIFY A CUSTOM BOOT VOLUME SIZE  
[Volume performance](#) varies with volume size. Default boot volume size: 48.6 GB

☐ ENCRYPT THIS VOLUME WITH A KEY THAT YOU MANAGE  
By default, Oracle manages the keys that encrypt this volume, 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. [Learn more about managing your own encryption keys](#)

Add SSH keys

Linux-based instances use an [SSH key pair](#) instead of a password to authenticate remote users. Generate a key pair or upload your own public key now. When you [connect to the instance](#), you will provide the associated private key.

☒ GENERATE SSH KEYS ☐ CHOOSE SSH KEY FILES ☐ PASTE SSH 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

Cancel

Once the fields have been supplied, Click on **"Create"**

## Registration via Cloud-init

If you like to pass in the gateway registration key into the image launching.

## Click on "Show Advanced" under the ssh keys assignments

Add SSH keys

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☒ GENERATE SSH KEYS ☐ CHOOSE SSH KEY FILES ☐ PASTE SSH 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](#)

[Show Advanced Options](#)

## Under the Cloud-Init **Select Paste Cloud-init Script**

[Hide Advanced Options](#)

Management Networking Image Host

CHOOSE A FAULT DOMAIN

Choose a fault domain

Initialization Script

You can provide a startup script that runs when your instance boots up or restarts. Startup scripts can install software and updates, and ensure that services are running within the virtual machine.

☐ CHOOSE CLOUD-INIT SCRIPT FILE ☒ PASTE CLOUD-INIT SCRIPT

CLOUD-INIT SCRIPT

```
#!/bin/bash
sudo nfnreg #####
```

Oracle Cloud Agent ⓘ

☒ **ENABLE MONITORING**  
Collect metrics to monitor this instance's health, capacity, and performance. When enabled, Oracle Cloud Agent emits metrics for this instance to the Monitoring service.

☒ **USE ORACLE CLOUD AGENT TO MANAGE THIS INSTANCE**  
Enables Oracle Cloud Agent to automate operational tasks for the instance, such as installing patches. [Learn more.](#)

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources. [Learn more about tagging](#)

Tag Namespace	Tag Key	Value
None (add a free-form tag)		

Use the following code: V3->V6:

```
#!/bin/bash
sudo nfnreg {Registration Key}
```

V7:

```
#!/bin/bash
sudo router-registration {Registration Key}
```

## Post Deployment

If you did not supply the **GatewayRegistrationKey** field during the deployment, you can access the machine via ssh, following the launch. **Please Note** You must enable external IP in order to reach the launched machine remotely.



### Important

The ssh username must be "opc"

Using an SSH client, log in to the machine using its public IP address as the user "nfadmin", using the SSH key or password specified earlier.

```
ssh -i [path/to/private/key] opc@[public_ip_address]
```

Once you are logged in to the gateway, follow the instructions to register it to your NetFoundry Network. Look for errors in the registration process output, or "Success" if registration completes successfully. **[registration key]** is the key you captured earlier. [How to Register a NetFoundry Cloud Gateway VW](#)

Setup is complete.