Getting Started with Equinix Metal

What's in this guide?

At Teradici we have tested our software extensively on Equinix Metal to give customers confidence that deploying everything from high-end graphics workstations to task-based user workloads in this environment will provide an easily managed and robust solution. In this guide we walk you through each step to deploy a GPU enabled workstation, with the Teradici graphics agent, and the horsepower to run the most demanding graphical and media editing applications on the market.

When you join Equinix Metal™, you create a user account. This is where you can manage your personal profile, adjust your login and security settings, and manage your personal SSH and API keys.

- User accounts
- Organizations
- SSH keys

Deploy a server

At the heart of the platform is the ability to deploy, configure and manage bare metal servers across a global platform.

- About our servers
- Deployment options
- Operating systems

Now that you have the basics covered lets dive into an example:

The goal of this example is to build out a GPU enabled physical server to use as a remote video editing workstation. Once you have your credentials for Metal proceed to step 1.

1. The first step once we have logged into the portal is to create a project. Click the 'New Project' link and name the project.

2. Once we have created a 'New Project' we can now start deploying! Click '+ New Server'
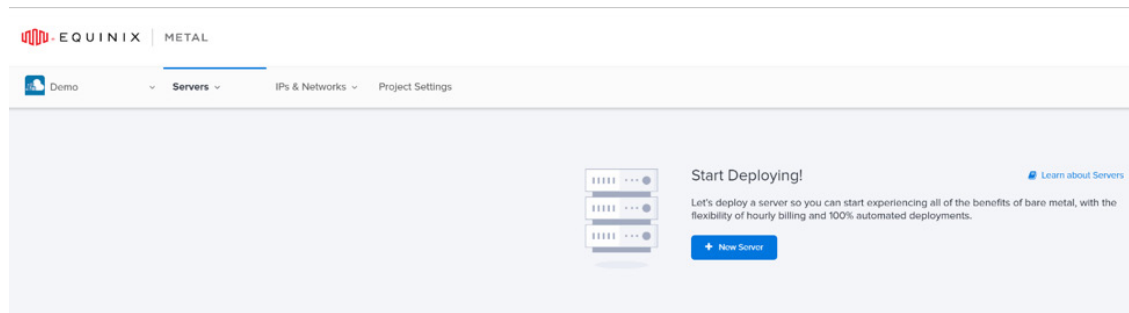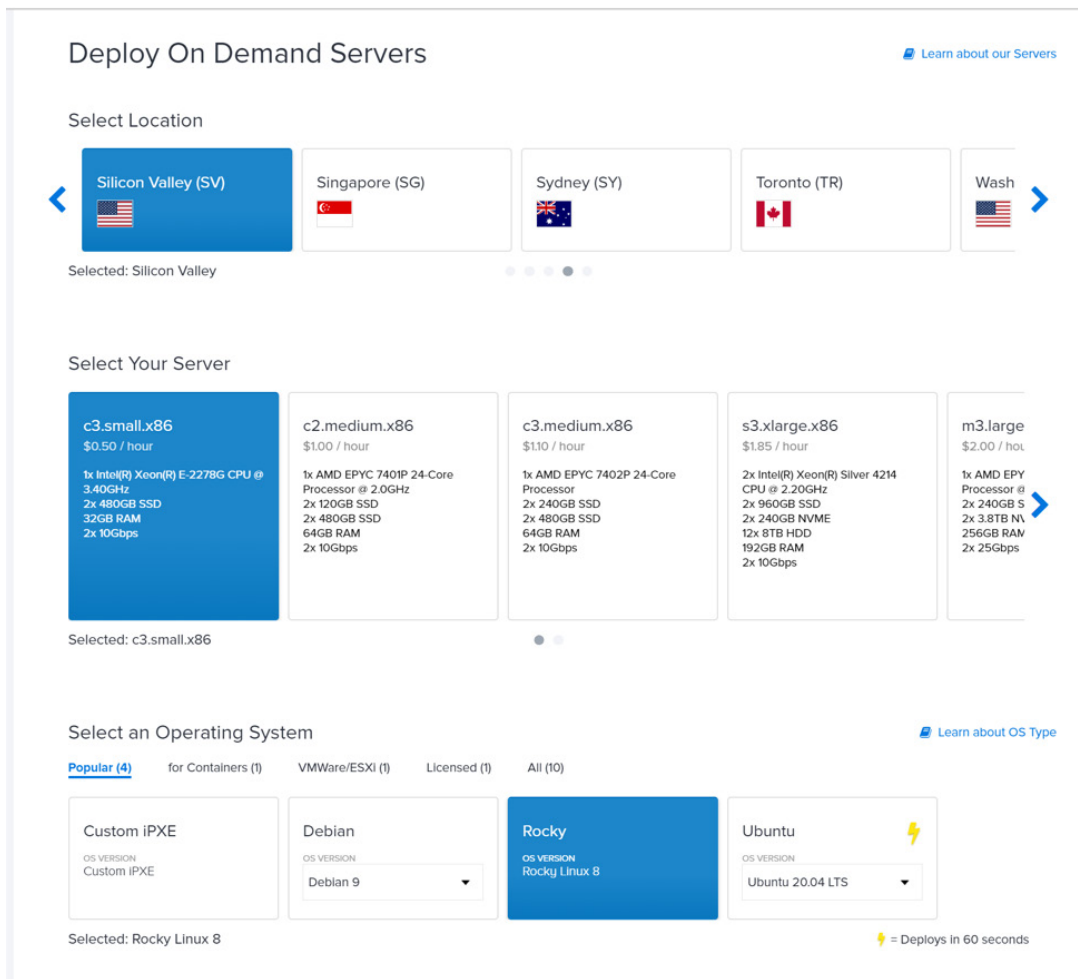
3. Choose the appropriate instance type (for this demo we have selected 'ON DEMAND')
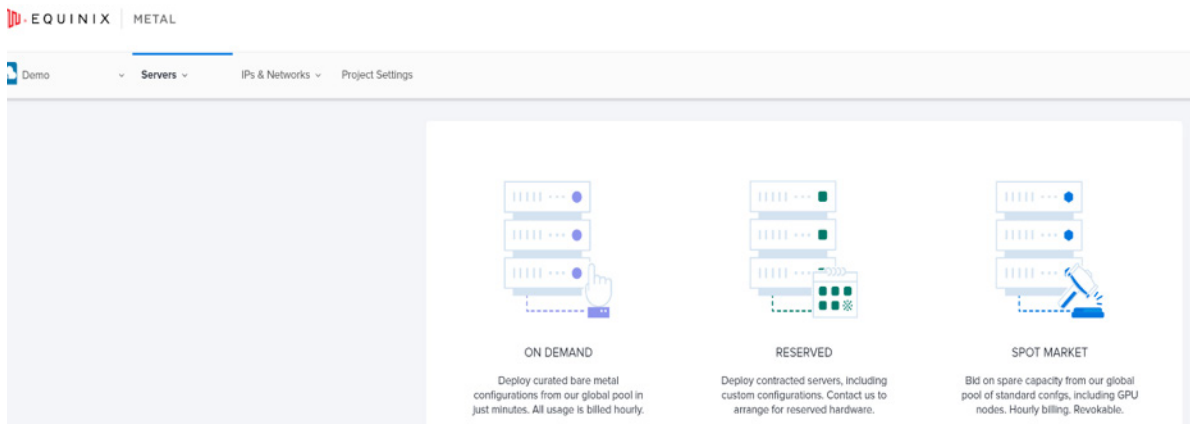
4. Select the region, server specs, and operating system.
   *Notice that some selections can be deployed in less than 60 seconds! (Most are deployed in just a few minutes)

5. We can name the new server (Hostname) as well as select advanced configuration options before deploying.

    **Note: The 'Add User Data' is particularly useful to add Terraform scripts/Powershell scripts/ etc for user applications.

Select Number and Name Your Server(s)

Hostname

− 1 +

rocky8-casm

You can use:
- Case-sensitive letters
- Numbers
- Hyphens
- Dots

You cannot use:
- Underscores

Optional Settings

Add User Data
Use this to execute script/package tasks or trigger more advanced configuration processes after the server is ready.

Configure IPs
Make changes to IP allocations. By default, Equinix Metal provides 1 public IPv4 and 1 public IPv6 address for free.

Customize SSH Key Access
All available SSH keys are deployed by default.

Summary

Location	Silicon Valley (SV)
Server	1 x c3.small.x86
OS	Rocky Linux 8
Estimated Cost ❓	$0.50/hr

Deploy Now

6. After just a minute or two our new bare metal Rocky Linux 8 server is deployed and ready to be configured!

    **Important! Take note of the SSH root password as it will not be available to view after 24 hours!

7. Now that our server is ready, we can go to https://docs.teradici.com to select the software we need for our project.

For our Rocky Linux 8 server we will be installing the Teradici 'CAS Manager' 22.01 software.

**Note: you will need login credentials to access the necessary downloads from:
Find your component | Teradici Documents and Downloads

A document describing the steps needed for installation can be found here:
What is CAS Manager? - Teradici CAS Manager

Once you have completed the CAS Manager install its time to create an end-user machine, see **'Client Machine setup'.**

Client Machine setup

For the second part of our installation we will follow the same process and deploy a dedicated Windows 2019 Server instance with an Nvidia GPU for graphics rendering. In Equinix Metal this is their g2.large.x86 instance type.

**Note: You may have to contact Equinix Sales to unlock this server type.

This powerful physical machine will allow us to run high end graphics workloads (like Adobe Premiere, Blender, Epic Unreal Engine, etc) and access them via Teradici PCoIP to give us a local machine experience remotely!

1. Our first task for our new Windows 2019 server is to login via RDP and update all the Windows components as well as install the appropriate Nvidia driver. This step is critical and you will likely need to also install the NVidia Grid components (see NLP - Dashboard (nvidia.com))

2. Once we have updated the Windows components and drivers we are ready to install the host software, Teradici Graphics Agent for Windows.

    a. If this step completes successfully, it is verification that the Nvidia drivers and Grid software were correctly installed

    b. If you get a warning that a suitable GPU is not installed or a yellow dot in the upper right hand corner of your screen, it is generally a Grid configuration issue see vGPU Resources for Design & Visualization | NVIDIA

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3. Launch the Teradici PCoIP software client and create a new connection to the Windows 2019 Server machine
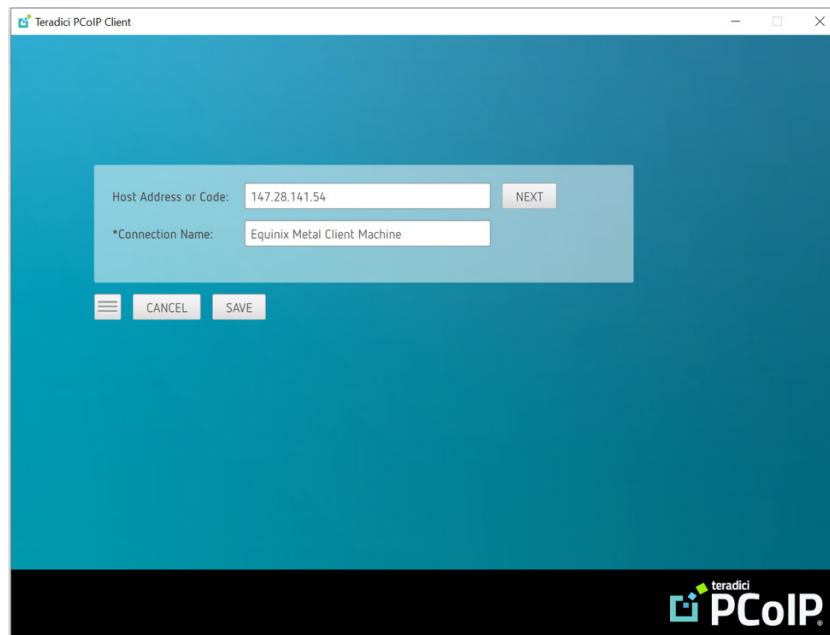
4. Once connected we can run our high intensity graphics applications using all the power of our Equinix Metal server as if we were local!