

# 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

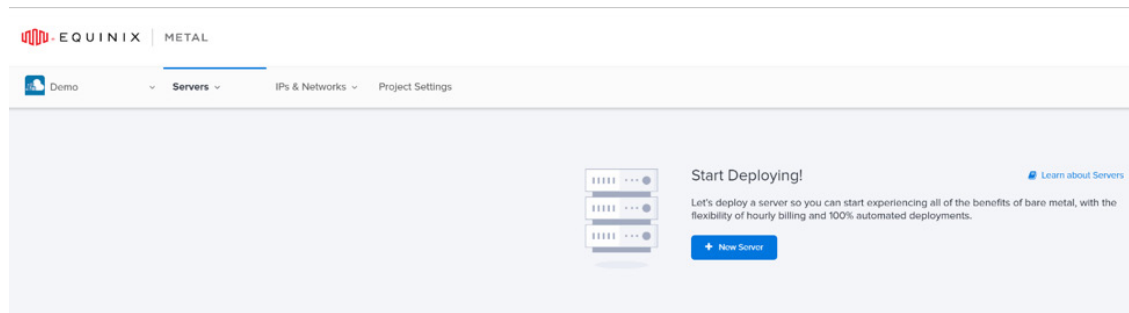
At the heart of the platform is the ability to deploy, configure and manage bare metal servers across a global platform.

- [About our servers](#)
- [Deployment options](#)
- [Operating systems](#)

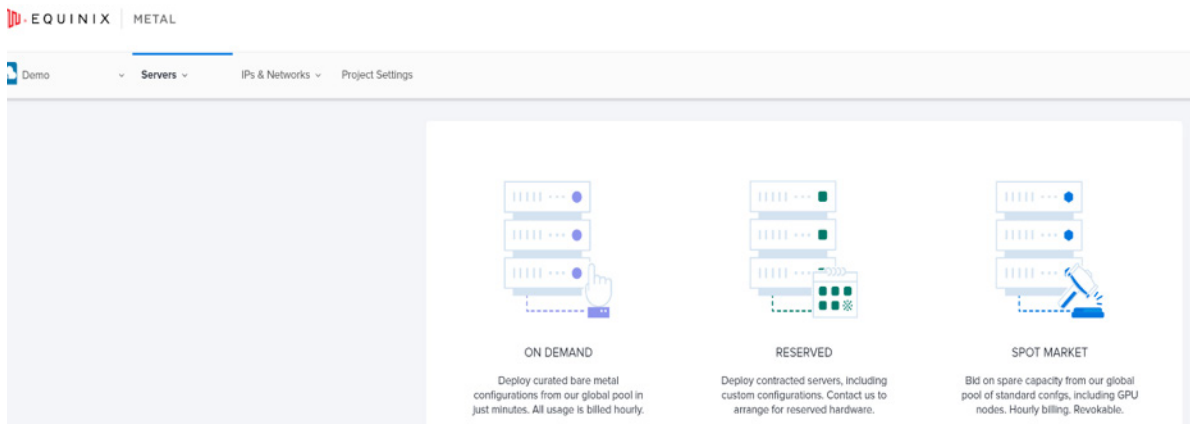
Now that you have the basics covered lets dive into an example:

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'

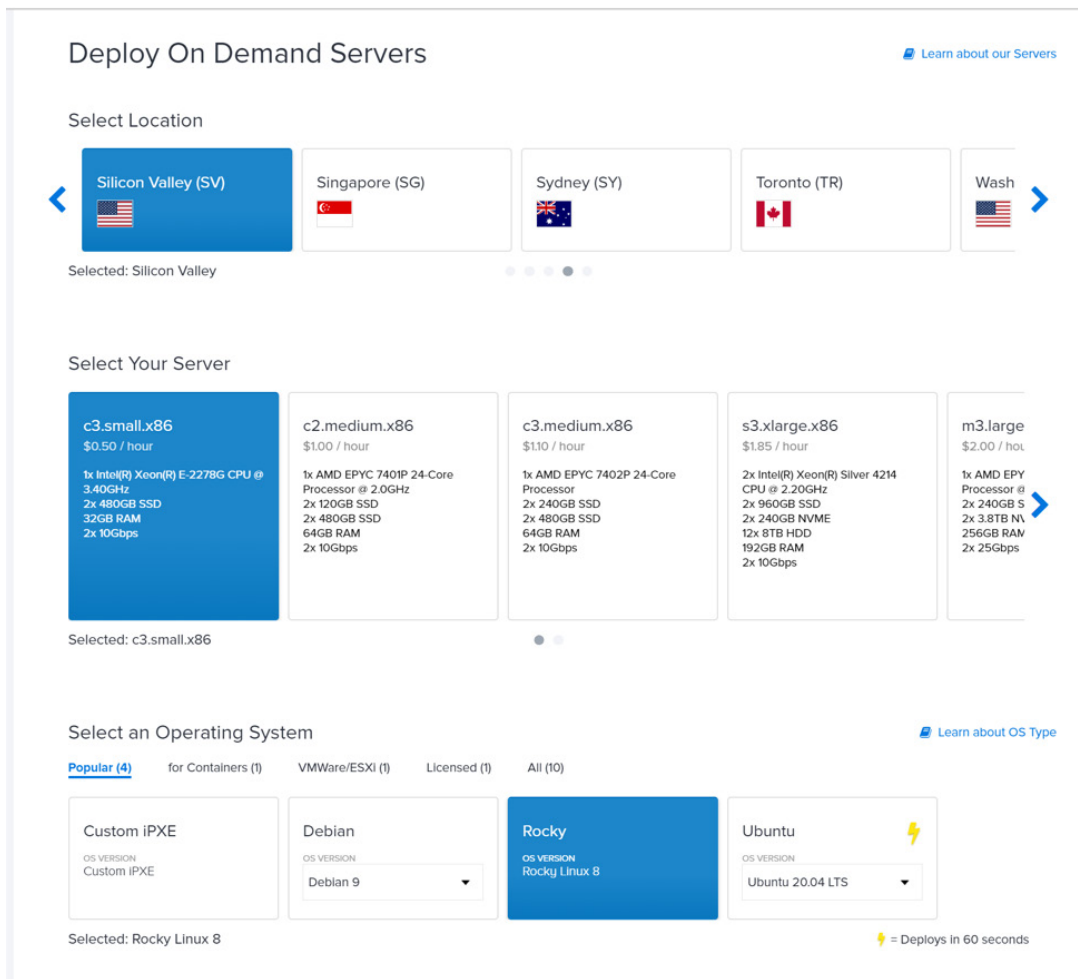


3. Choose the appropriate instance type (for this demo we have selected 'ON DEMAND')



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)

1

**Hostname**

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

<b>Location</b>	Silicon Valley (SV)
<b>Server</b>	1 x c3.small.x86
<b>OS</b>	Rocky Linux 8
<b>Estimated Cost</b> <span style="font-size: 12px;">?</span>	\$0.50/hr

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!

**SSH root password** (valid for 24h) [masked] [DISMISS]

**da-c3-small-x86-01** on demand DALLAS (DA) DA11 Rocky Linux 8  
 deployed on February 28th, 2022 (9:15 AM UTC-08:00)

ADDRESS	NETWORK	GATEWAY	TYPE
139.178.84.91	139.178.84.90/31	139.178.84.90	Public IPv4
2604:1380:4642:2500::1	2604:1380:4642:2500::/127	2604:1380:4642:2500::	Public IPv6
10.70.98.1	10.70.98.0/31	10.70.98.0	Private IPv4

[View Elastic IPs](#)

Hostname	da-c3-small-x86-01
Description	
ID	00654dfa-5386-4e23-b97f-057f4e8e1be9
Created by	Chris Butler
Switch Id	16529013
Config	c3.small.x86
Location	Dallas (DA) - DA11

[Edit Instance Details](#)

Hours of Server Usage	7 hour(s)
Billable Bandwidth	0 GB
Price Per Hour / MTD Usage	\$0.50/hour / \$3.50MTD

[All Usage](#)

**HARDWARE**

- PROC: 1x Intel(R) Xeon(R) E-2278G CPU @ 3.40GHz
- RAM: 32GB
- DISK: 2 x 480GB SSD
- NIC: 2 x 10Gbps Bonded Ports

**24-HOUR TRAFFIC TREND**

Legend: Inbound (green), Outbound (blue)

09:22 AM 03:22 PM 09:22 PM 03:22 AM 09:22 AM

[View Details](#)

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

## Cloud Access Software

2022.01 ▾

Securely deliver high-performance desktops to knowledge workers and power users requiring even the most graphics-intensive applications. Cloud Access Software is built on industry-leading PCoIP® technology, empowering a rich user-experience and the flexibility to deliver desktops from any public cloud or data center to a variety of endpoint devices.

✔ This is the current release.

## General documentation

- 📖 Quick Start Guide
- 📖 Architecture Guide
- 📖 Session Planning Guide
- 📖 Work-From-Home Guide

### PCoIP Hosts

PCoIP hosts capture and securely deliver the host machine's pixel output to PCoIP clients.

### Graphics Agents

🪟 Graphics Agent for Windows  
22.01

🐧 Graphics Agent for Linux  
22.01

🍏 Graphics Agent for macOS  
22.01

### Standard Agents

🪟 Standard Agent for Windows  
22.01

🐧 Standard Agent for Linux  
22.01

### PCoIP Clients

PCoIP clients enable you or your users to connect securely to a remote desktop.

### Software Clients

🪟 Software Client for Windows  
22.01

🍏 Software Client for macOS  
22.01

🐧 Software Client for Linux  
22.01

### Mobile Clients

🍏 Mobile Client for iOS Tablets  
3.6

🤖 Mobile Client for Android Tablets and Laptops  
21.01

### CAS Manager

CAS Manager enables administrators to automate provisioning, manage cloud compute costs and broker secure connections to remote Windows and Linux workstations.

### CAS Manager Versions

📁 CAS Manager  
22.01

☁️ CAS Manager as a Service

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.

The screenshot displays the Equinix Metal console interface for a specific instance. On the left is a navigation menu with options: Overview (selected), Network, BGP, Traffic, SSH Keys, Timeline, Tags, and Delete. The main content area shows the instance 'test1' with a status of 'on demand' and deployment details: 'deployed on January 24th, 2022 (10:15 AM UTC-08:00)'. The location is 'DALLAS (DA) DFW2' and the OS is 'Windows 2019 Standard'. Below this is a 'MANAGEMENT IPS' table:

ADDRESS	NETWORK	GATEWAY	TYPE
147.28.141.54	147.28.141.52/30	147.28.141.53	Public IPv4
2604:1380:4040:e00::1	2604:1380:4040:e00::/127	2604:1380:4040:e00::	Public IPv6
10.32.141.2	10.32.141.0/30	10.32.141.1	Private IPv4

Below the table is a link to 'View Elastic IPs'. The 'INSTANCE DETAILS' section includes:

- Hostname: test1
- Description: (empty)
- ID: d1a3efce-2104-4687-afdd-3cbaa508e1f3
- Created by: Audrea Danskin
- Switch Id: e54e83b1
- Config: g2.large.x86
- Location: Dallas (DA) - DFW2

The 'HARDWARE' section lists:

- PROC: 2 x Intel Xeon Gold 6126
- RAM: 192GB
- DISK: 1 x 150GB SSD, 2 x 480GB SSD
- NIC: 2 x 10Gbps Bonded Ports

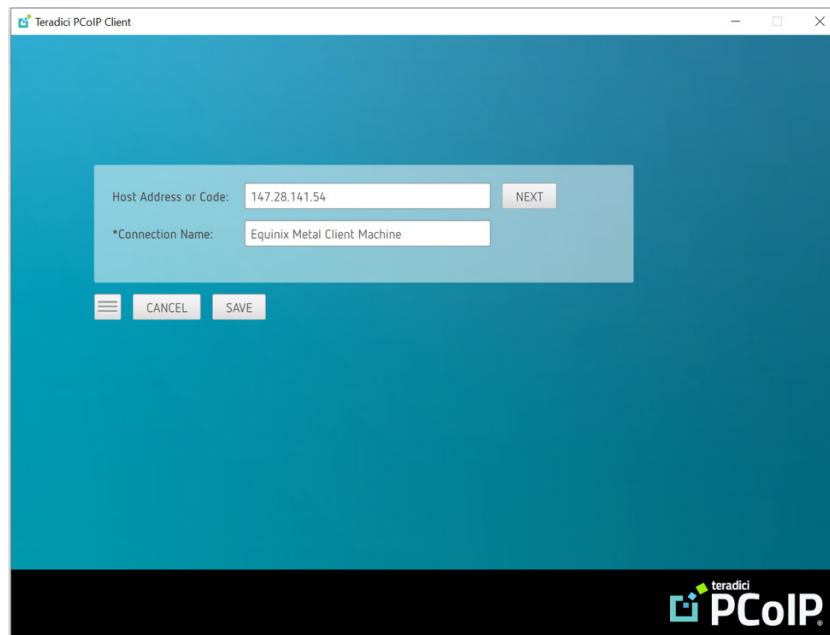
At the bottom right, there is a '24-HOUR TRAFFIC TREND' chart showing Inbound and Outbound traffic. The Inbound traffic is 582.9 Kb and the Outbound traffic is 480.0 Kb.

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](#)

The screenshot displays the Teradici Cloud Access Software interface. The main content area is titled "Graphics Agent for Windows" and shows a grid of software components. The "Graphics Agents" section includes "Graphics Agent for Windows" (version 22.01), "Graphics Agent for Linux" (version 22.01), and "Graphics Agent for macOS" (version 22.01). The "Standard Agents" section includes "Standard Agent for Windows" (version 22.01) and "Standard Agent for Linux" (version 22.01). The "Software Clients" section includes "Software Client for Windows" (version 22.01), "Software Client for macOS" (version 22.01), and "Software Client for Linux" (version 22.01). The "Mobile Clients" section includes "Mobile Client for iOS Tablets" (version 3.6) and "Mobile Client for Android Tablets and Laptops" (version 21.01). A sidebar on the right provides additional information for the "Graphics Agent for Windows" 22.01.1 release, including supported operating systems (Windows 10 20H2, 21H1 and Windows Server 2016, 2019) and links to "Downloads and scripts", "Release Notes", "Administrators' Guide", and "Knowledge Base".

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!

