

# Seamless, fully managed cloud native application platform

Delivers and manages production Kubernetes, Swarm and OpenStack on Equinix Metal™ bare metal and across your multicloud environment.

Simple operations through a single pane of glass, self-service, application and automation portability help you ship code faster, control costs, scale as business demands—all without lock-in.

## Overview

Hybrid multicloud success means managing container orchestration (e.g., Kubernetes) and Infrastructure as a Service (IaaS, e.g., OpenStack) seamlessly, across multiple substrates.

However, challenges like high network latency, poor overall performance and unpredictable costs across different cloud providers can make multicloud platforms seem complex and impractical.

## Solution

Mirantis and Equinix have solved these challenges by ensuring a first-class Kubernetes and OpenStack operator and developer experience on the Equinix Metal™ bare metal global cloud—plus other infrastructures, including VMware, AWS, data center bare metal and edge servers.

This solution is ideal for businesses looking to build out hybrid cloud and multicloud environments in the most performant way: by minimizing costs and overhead, shifting spend from CAPEX to OPEX and retaining all the benefits of private cloud, but with Equinix Metal agility.

Mirantis and Equinix provide a seamless and fully managed Containers as a Service (Mirantis Container Cloud, providing production-grade Kubernetes and Swarm orchestration) and Infrastructure as a Service (Mirantis OpenStack for Kubernetes, hosting virtual machines, networks and storage) layer on top of Equinix Metal.

Enjoy simple, self-service and point-and-click web operations and monitoring across all your clusters on all supported infrastructures. Plus, you'll receive one set of APIs and tools to automate operations everywhere—on Equinix Metal, private clouds, hyperscale public clouds, on-premises bare metal, edge and other substrates.

## About Mirantis

Mirantis helps organizations ship code faster on public and private clouds. The company provides a public cloud experience on any infrastructure from the data center to the edge. With Lens and the Mirantis Cloud Native Platform, Mirantis empowers a new breed of Kubernetes developers by removing infrastructure and operations complexity and providing one cohesive cloud experience for complete app and DevOps portability, a single pane of glass and automated full-stack life cycle management with continuous updates.

[Mirantis.com](https://mirantis.com)

## About Equinix

Equinix is the world's digital infrastructure company™. Digital leaders harness our trusted platform to bring together and interconnect the foundational infrastructure that powers their success. We enable our customers to access all the right places, partners, and possibilities they need to accelerate advantage. With Equinix, they can scale with agility, speed the launch of digital services, deliver world-class experiences, and multiply their value.

[Equinix.com](https://equinix.com)

## Benefits

### Simplicity

- Rapid cluster provisioning, monitoring, operations and non-disruptive updates via API or webUI, with reduced administrative overhead for large development teams with hundreds to thousands of apps.
- Simple, consistent, “as a service” cloud experience. Provides operators with one touchpoint and a complete toolkit for multicloud Day 1 and 2 operations and centralized policy management, while giving developers self-service options to get resources instantly and deliver software faster.
- Utilization occurs via the API, usually through tools like Terraform or Ansible, but also through native API libraries, hosted integrations, or tie-ins via Kubernetes (e.g., for autoscaling Kubernetes nodes).

### Choice

- Easy cloud experience for on-premises deployments with automated full-stack life cycle management and a single console for all clusters on any infrastructure.
- REST APIs let you connect with enterprise IAM, CI/CD, or other modern operations or dev/test workflows and easily build self-service tools.
- Deliver digital services in other locations, as well as connect your own infrastructure across multiple geographic locations.

### Security

- FIPS 140-2 compliant security, separation of duties and policy enforcement for regulated industries with strict security requirements.
- Enterprise and cloud-ready core security model. Mature, layered, role-based security and secrets model that seamlessly protects critical credentials and limits permissions, without slowing you down.
- Gain greater control over surface vulnerability by isolating sensitive workloads on single-tenant infrastructure.

### Resiliency

- A mature, complete and consistent Kubernetes cluster model everywhere that helps enable workload portability and can be addressed with consistent automation.
- Updates and upgrades can be rolled out manually or continuously with no cluster downtime and in most cases zero workload downtime using the Kubernetes native rolling-upgrade facility.
- OpenStack Control Plane benefits from Kubernetes native rolling-upgrade with minimal disruptions.
- Higher utilization translates to a smaller data center footprint, lower power and cooling costs, as well as further reductions in management expenses.

## Deploy your code anywhere

Mirantis and Equinix coordinate to support customers with white-glove platform engineering and production operations support. Together, we can help design and configure your implementation, bring it online quickly, train your teams for self-sufficiency and help build out secure software supply chains for development, testing, staging and production with your choice of tools.

At the same time, you'll stay running and secure 24/7/365 with industry-leading response times and infrastructure availability SLAs.

## Features

### Rapid provisioning

Manage deployments across multiple cloud types and regions, all from one place.

### Container orchestration

Deploy clusters running Kubernetes, Swarm or both, so you can use the orchestration model that's right for your applications.

### DevOps automation

Integrate standard DevOps tools or, through Equinix Metal, enable instances to be deployable within minutes.

### Full-stack life cycle management

Covers operating system, container runtime, networking, storage, service mesh, image registry and more for the full stack of Kubernetes, OpenStack and related technologies.

### Cloud native private cloud

Deploy, observe and life cycle-manage full-featured, multitenant bare metal private clouds on Equinix Metal at any scale.

## Use Cases

### Organizations moving to multicloud environments

Optimize cloud location and spend. Observe, automate and life cycle manage Kubernetes and OpenStack environments across infrastructures from a single pane of glass. Vastly improve operational efficiency while reducing the need for platform-specific skills.

### Teams shifting to “DevOps” culture

Take advantage of team- or developer-centric self-service cluster provisioning and simplified operations on any supported infrastructure.

### Regulated industries (e.g., finance)

Gain improved security and easier compliance and policy management, deploying Kubernetes and OpenStack where needed in the world for compliance and data sovereignty.

### SaaS providers

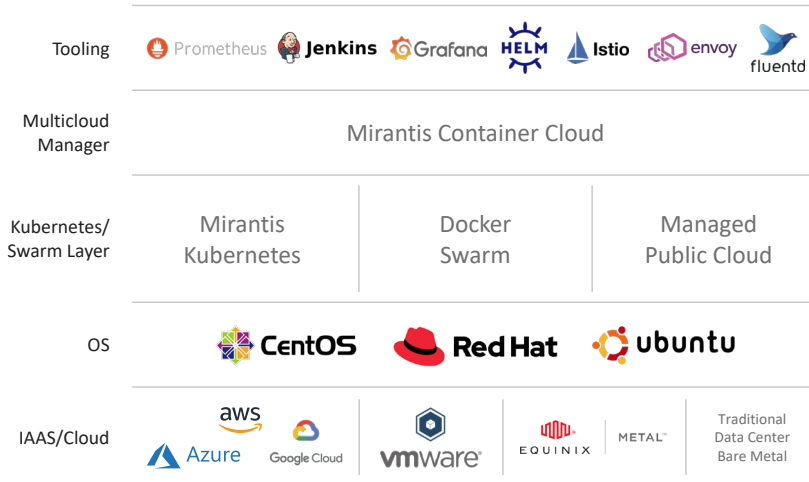
Put consistent cluster capacity where it’s needed for compliance or performance, easily porting automation to new clusters as they are created.

### Development teams

Easily adopt modern cloud native release paradigms like blue/green and canary deployments, confidently accelerating delivery of new features to customers while controlling risk.

Enjoy simple, self-service and point-and-click web operations and monitoring across your Kubernetes clusters on all supported infrastructures.

## Mirantis Cloud Native Platform



## Ready to get started?

Learn more at [Metal.Equinix.com/Solutions/Mirantis](https://Metal.Equinix.com/Solutions/Mirantis)



## Power your digital leadership at Equinix

On Platform Equinix®, digital leaders bring together all the right places, partners and possibilities to create the foundational infrastructure they need to succeed. On a single global platform, place infrastructure wherever you need it. Connect to everything you need to succeed. Seize opportunity with agility, speed and confidence.