Platform9 Managed Bare Metal Overview

Platform9 Managed Bare Metal transforms physical servers into an automated, zero-touch bare metal cloud that is ready to run high performance workloads, 4G & 5G Virtual and Container Functions, Big-Data Platforms, as well as Private, Edge and Hybrid Clouds running Virtualization or Kubernetes. It remotely manages and automates the lifecycle of bare metal to flexibly deploy any workload anywhere at a moment's notice: Kubernetes, databases, HPC, and virtual machines.

The Managed Bare Metal platform consists of three main components:

- The Platform9 SaaS Management Plane
- The Bare Metal Controller
- The physical server nodes that will be transformed into a bare metal cloud.

Platform9 is 100% SaaS Managed. This provides a cloud native Bare Metal 'as-a-service' platform that enables users to democratize their hosts into an elastic and flexible Bare Metal cloud that is fast to deploy. Platform9 significantly decreases server bring up and deployment time. Rather than a time consuming and error prone process for each server that involves crash-carts, validating OS images, helpdesk requests, no user self service, manual deployment of applications and tedious debugging of deployments, Platform9 enables DevOps and ITOps to unpack, rack and then connect to Platform9. Once powered, on users can quickly build hundreds of servers, redeploying and reconfiguring OS and applications with one click. The SaaS management interface connects to and manages physical resources with the simplicity of a public cloud.

Platform9 Bare Metal Features and Benefits

Category	Features	Benefits
Rapid Provisioning	Self-service, automated provisioning and orchestration of bare metal clouds.	• Unpack, Rack, and Connect to Platform9 - and you are off the ground. • Build hundreds of servers. Deploy & configure OS and applications with one click.

Category	Features	Benefits
Cloud Agility	Platform9 automates and offloads all of the manual bare metal life-cycle management tasks	• Unleash the full performance of your hosts — no matter where they are located — as an elastic and flexible bare metal cloud • Rapidly deploy and redeploy any workload at a moment's notice
Unified Management Plane	Platform9 SaaS based control plane for day-2 operations	• Operate your bare metal cloud via Platform9 SaaS based UI or via API • Monitor, upgrade, and consume your bare metal infrastructure with just a few clicks
Centralized Governance and RBAC	Built-in role based access control, resource limits, and multi-tenancy	• Create tenants and organizations based on roles and responsibilities • Control the access to resources • Limit resource consumption to keep costs in check
Self-Service Consumption	Self-service interface for consumption of bare metal resources for deploying VMs and applications	• Self-service users can consume bare metal in cloud-like fashion • Deploy VMs and applications with a few clicks on bare metal nodes

Platform9 Bare Metal Use Cases

Use Case	Description
On premises High Performance bare metal cloud	Build out a high performance on-premise bare metal cloud with very little effort. Automate deployment of performance-sensitive workloads directly on physical servers, such as: • Databases • Big Data • Analytics • AI/ML
Retail Edge	Fully automate remote deployment of thousands of retail stores end to end using our remote Bare Metal capability combined with our Virtualization and/or Kubernetes offerings. Deploy and manage any or all of the below using automation: • Operating System • Network configuration • Virtualization / Kubernetes • Containerized Applications for POS and other applications
Telco / 5G Edge	Fully automate deployment of vRAN or packet core software at tens of thousands of cell tower / remote telco edge locations, using our remote Bare Metal capability combined with Platform9 virtualization and/or Kubernetes offerings. Automate deployment and management of: • Operating System • Telco networking stack • Kubernetes / Virtualization • Containerized Applications

Platform9 Bare Metal Requirements/ Specifications

Item	Requirements
Bare Metal Controller	Role: Bare Metal Controller. • Physical or Virtual • OS Linux RHEL/CentOS • Connectivity: Outbound HTTPS connectivity on 443 to platform9.net • Server Requirements: o CPU - 4 o RAM - 16 o Storage - 120GB o Networking: 2 NICs • 1 NIC attached to the provisioning network • 2 NIC attached to any network
Network	Provisioning: A dedicated flat network for bare metal nodes orchestration utilizing IPMI Management (Optional): A dedicated network for Controller configuration
Bare Metal Nodes	Role: Target physical servers to be part of the bare metal cloud Minimum Requirements: • Supports IPMI & PXE Boot • Networking: 2 NICS o 1 PXE Boot Dedicated NIC: PXE Boot enabled attached to the provisioning network o 2 Application & Ops: NIC attached to any network

Platform9 Under Cloud: Using Bare Metal Cloud as a Hypervisor or Container

Item	Requirements
CaaS: Platform9 Managed Kubernetes	3 Physical Servers Minimum Requirements: • CPU: Minimum 4 Cores RAM: Minimum 8GB • Storage: Minimum: 30GB • Networking: 2 NICS o 1 PXE Boot Dedicated 1 NIC: with PXE Boot enabled attached to the provisioning network o 2 Application & Ops: NIC attached to any network
IaaS: Platform9 Managed Virtualization	3 Physical Servers Minimum Requirements: • CPU: Minimum 8 Physical Cores • RAM: Minimum 32GB • Storage: Minimum: 120GB • Networking: 2 NICS o 1 PXE Boot Dedicated 1 NIC: with PXE Boot enabled attached to the provisioning network o 2 Application & Ops: NIC attached to any network

PLATFORM9

Freedom in Cloud Computing

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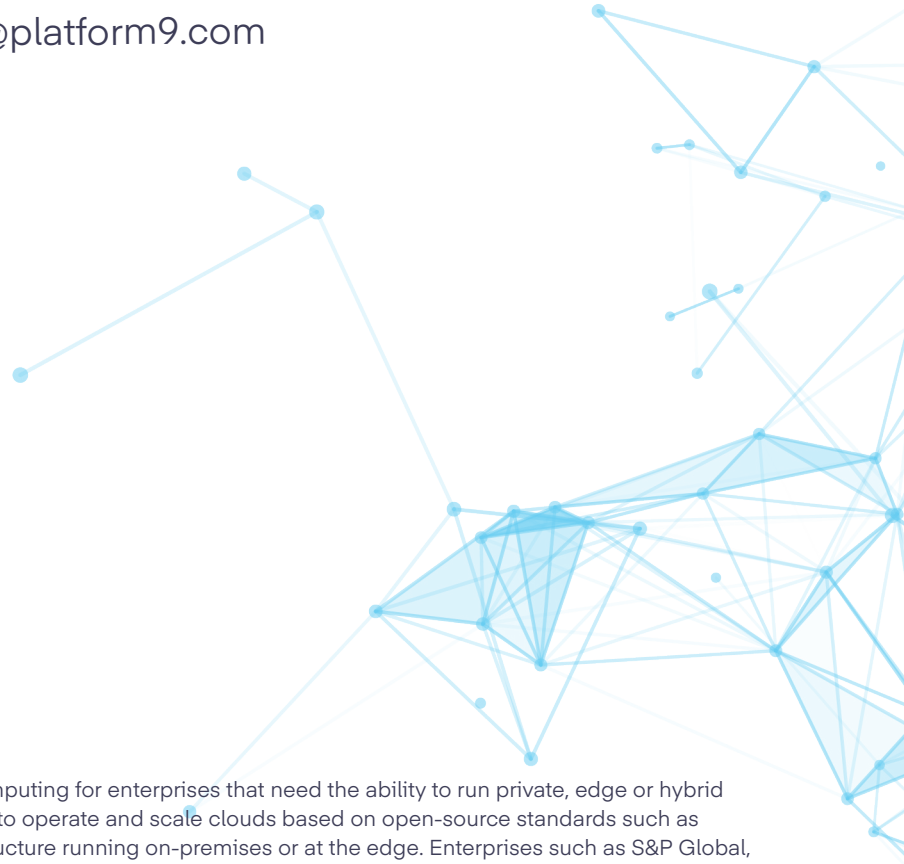

About Platform9: Platform9 enables freedom in cloud computing for enterprises that need the ability to run private, edge or hybrid clouds. Our SaaS-managed cloud platform makes it easy to operate and scale clouds based on open-source standards such as Kubernetes and OpenStack; while supporting any infrastructure running on-premises or at the edge. Enterprises such as S&P Global, Kingfisher Retail, Cadence Design, Juniper Networks and Autodesk are using Platform9 to easily manage large scale private and edge clouds. The company is headquartered in Mountain View, CA and is backed by Redpoint Ventures, Menlo Ventures, Canvas Ventures, NGP Capital, Mubadala Capital and HPE Pathfinder.