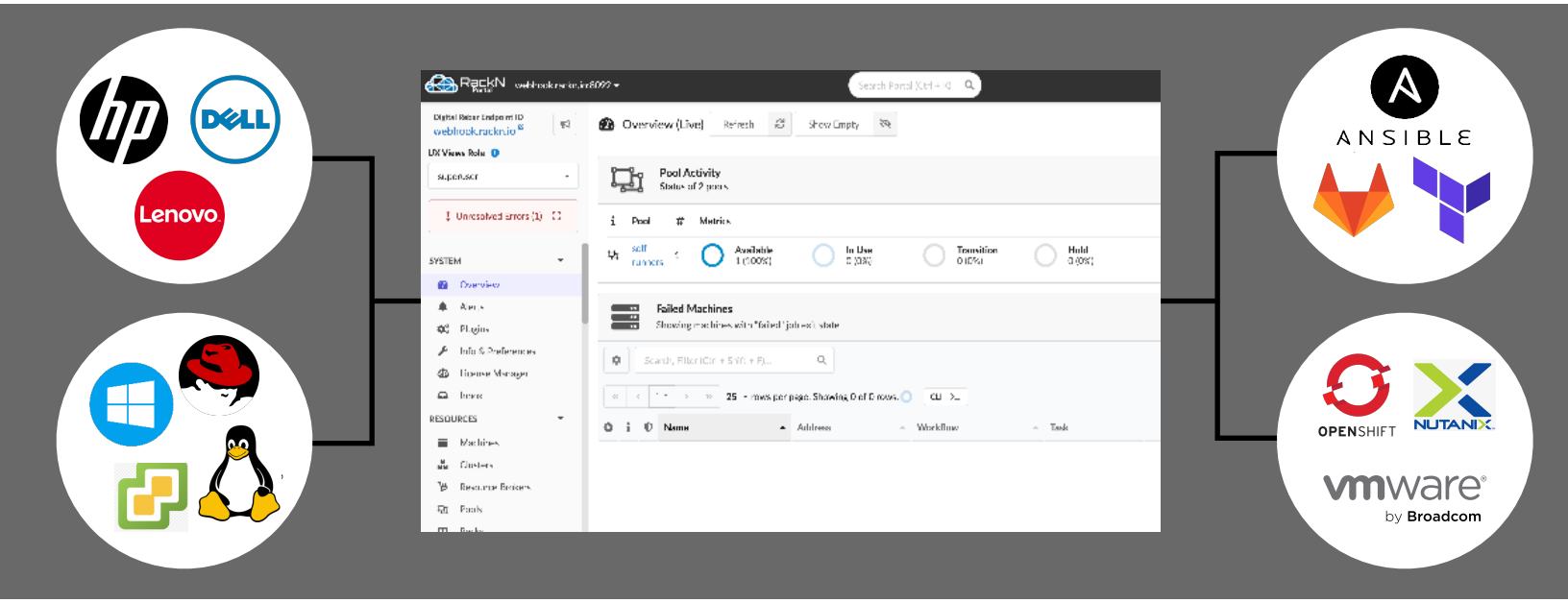
Product Overview

Digital Rebar is a powerful, enterprise-tested infrastructure management platform that simplifies automation across OEMs, architectures, and OS platforms. Our most common use cases include hardware onboarding, infrastructure repaving, integration with CI/CD, platform provisioning, bare metal, cloud, and more.



Key Features

IaC Architecture with declarative, immutable and version controlled automation and configuration

API-Centric Design including Python libraries and third-party portal integration

Comprehensive Bare Metal Provisioning handles PXE/BIOS/firmware/RAID/OS/Media Attach

Integrated Automation and Orchestration enables event driven automation and alerting

Infrastructure Pipelines provide hardware lifecycle management including incremental patch updates

Integrated Content Library of Workflows for all major operating systems, platforms, and hardware OEMs

Multi-Site Management unifies management for distributed and edge sites

Enterprise Security with High Availability, SSO, External Secrets, Secure Boot, RBAC, Auditing, and Airgap

Technical Specifications

Distribution: Software (self-managed) using SystemD service on Linux
Requirements: Linux 6.6 kernel environment, minimum 16 Gb RAM and 256 Gb storage
Release Cycle: Six month cycle

Architecture:
Core service provides API, DHCP, DNS, PXE, TFTP, RedFish
Integrated discovery, configuration and management
Container management for specialized tooling and workflows
No external dependencies enables Digital Rebar to be “first in” service for site bootstrapping

Domain Specific Language: Leveraging Golang Templating, Digital Rebar has a composable Infrastructure as Code (IaC) language distributed using JSON that is able to leverage other domain specific tools depending on the automation target

Supported Infrastructure and Platforms

OEM Vendors: Dell, HP, Lenovo, Supermicro, Cisco UCS, Quanta, and more
OOB Life-cycle: IPMI, Redfish, and OEM vendor protocols
OS Support: RHEL, RedHat, Linux, Ubuntu, Rocky, Alma, CoreOS, CentOS, Debian, Windows, AVH, ESXi
Processor Families: Intel, AMD, ARM, and GPU processors
Storage: Software defined storage appliance build
Network Automation: Routers, switches, load balancers, firewalls, etc.
Virtual and Container Platforms: VMware, Nutanix, Proxmox, Kubernetes, OpenShift and others
Configuration and Provisioning Platforms: Ansible AWX, Morpheus, Spacelift, and Terraform Cloud

Operational Tooling Integrations

Native Network Services: DNS, DHCP, IP asset management, TFTP, IPv4 and IPv6
Developer: Git, Gitlab, Github and others
Operations: DNS/DHCP, CMDB, Certificate Generation, Nagios, Prometheus, and more
Business Process Orchestration: Service Now, Remedy
SSO Integration: Includes Active Directory, SAML
External Secret Management: Native or with third-party vaults
Configuration Management Integrations: Ansible Tower, Terraform, Chef, GitLab, etc.
Provisioning Orchestration: Terraform and direct cloud integrations