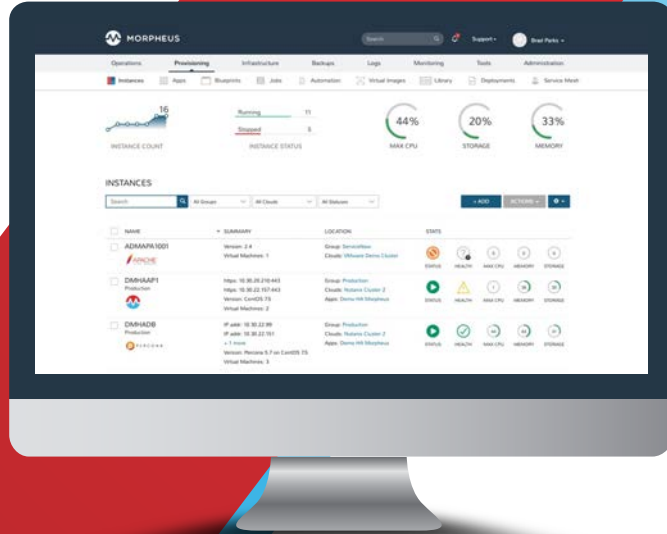# Morpheus 6.0 LTS
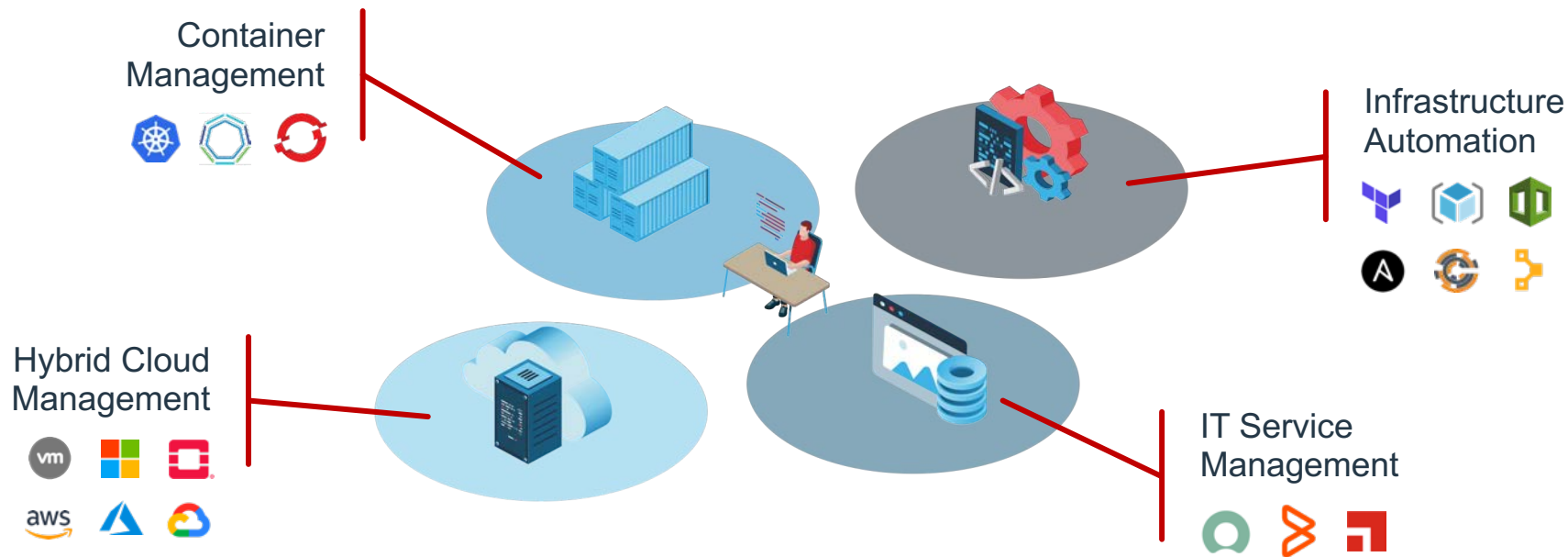
What's New Overview – May 2023

IT Complexity slows down workload provisioning

Home grown self-service platforms end up being brittle and hard to maintain at enterprise scale

Container Management

Infrastructure Automation

Hybrid Cloud Management

IT Service Management

Self-Service is what defines Cloud, DevOps … **and Morpheus**

Provision any service into any cloud
From single VM/OS to complex multi-tier applications with clustered layouts and cloud-native PaaS services.

Build, manage, and consume Kubernetes
Use Morpheus K8s, provision EKS/AKS/GKE, deploy OpenShift, Tanzu, Rancher, etc., or connect brownfield.

Centralize IaC and Config. Management
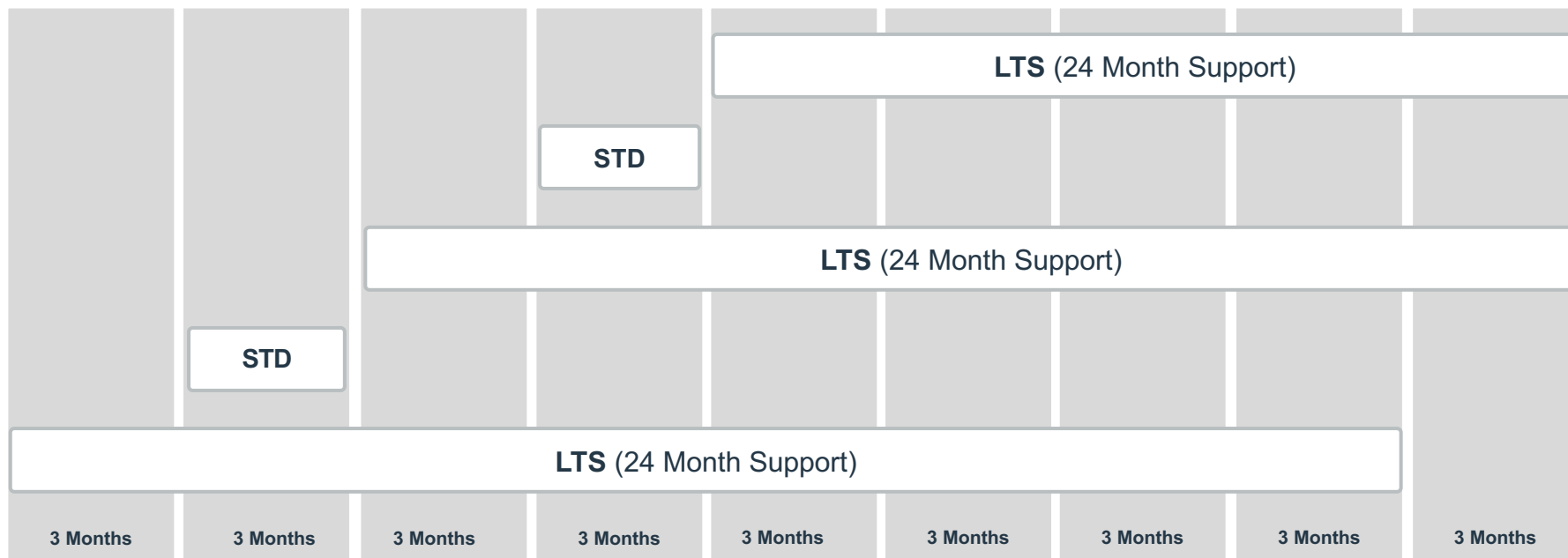Provide execution and governance of a heterogeneous mix of Terraform, Ansible, Chef, Puppet, Salt, vRO, etc.

Discover and manage services across clouds
Visualize resources and optimize costs, update CMDBs, monitor incidents, and automate remediation.
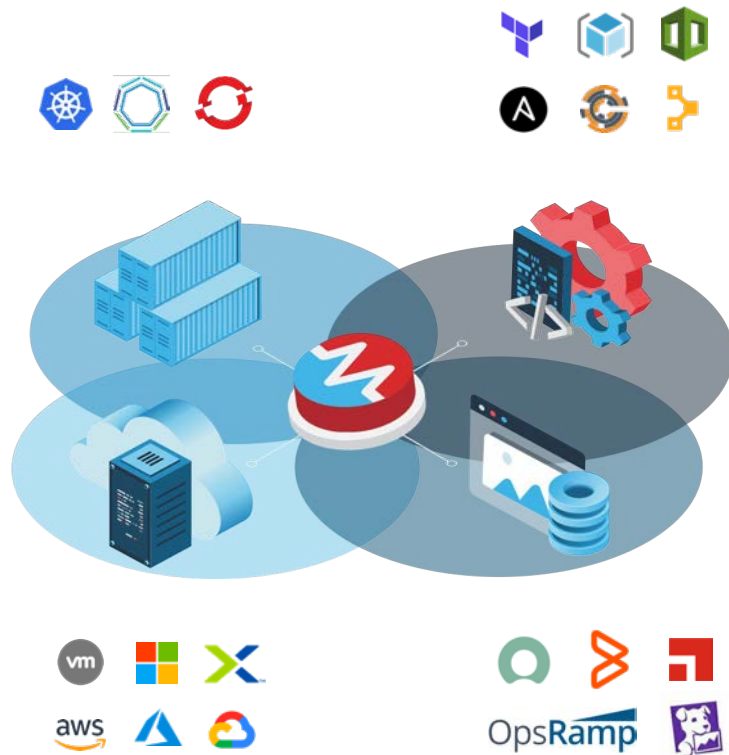
Morpheus Release Cycle

Understanding the changes to the Morpheus release cycle

				LTS (24 Month Support)				
			STD					
		LTS (24 Month Support)						
	STD							
LTS (24 Month Support)								
3 Months	3 Months	3 Months	3 Months	3 Months	3 Months	3 Months	3 Months	3 Months

https://support.morpheusdata.com/s/article/How-do-Morpheus-version-numbers-work

Core Platform
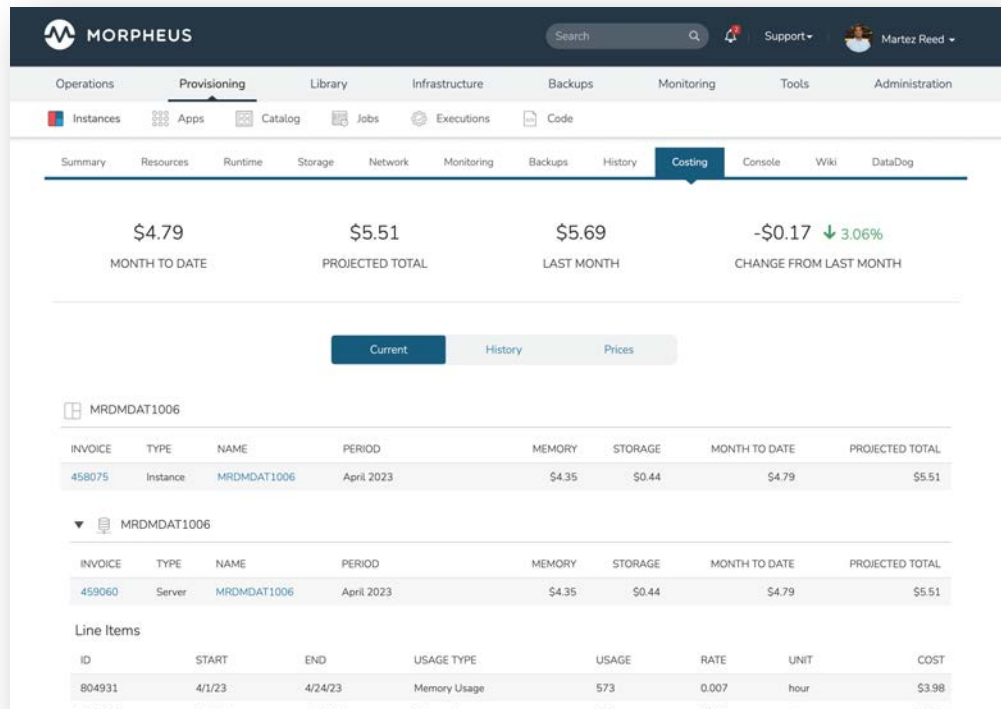
Core Platform Updates

The foundation for delivering self-service workload management and automation

New Default Dashboard: The default Morpheus dashboard has been updated with a new look and feel that includes new visualizations and data.

Object Labels: Organize and filter Morpheus objects (tasks, spec templates, instance types, etc.) using metadata associated with the object.

MySQL 8 Support: MySQL 8 can now be used as the underlying database for the Morpheus platform.
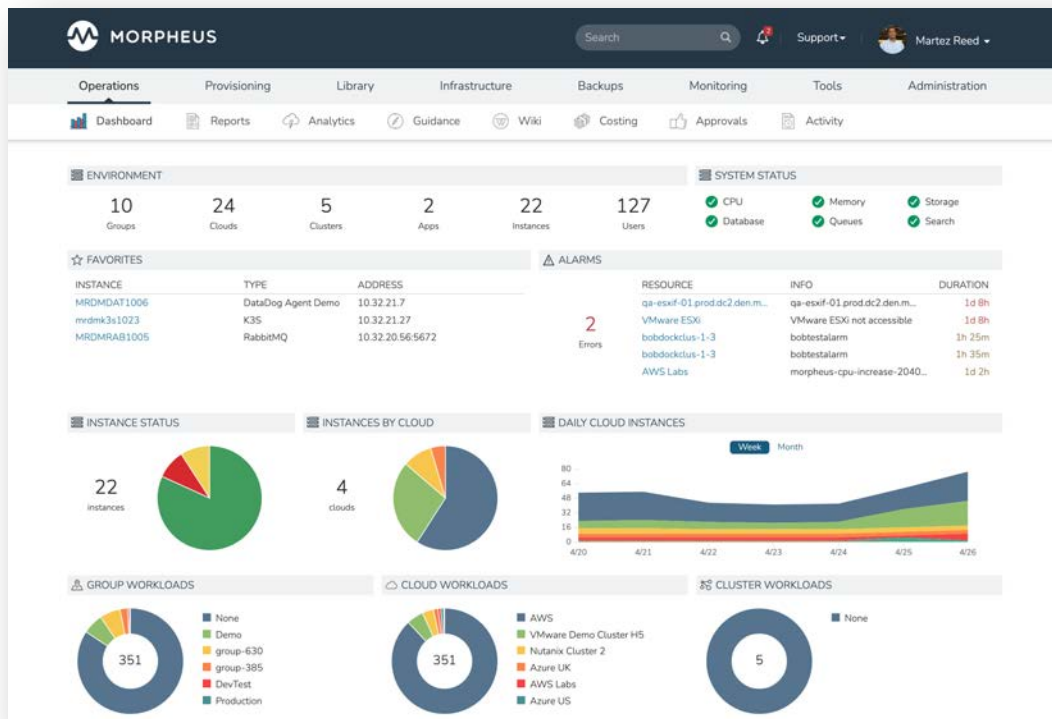
Core Platform Updates

The foundation for delivering self-service workload management and automation

Instance Detail UI Updates: The instance details page has been updated with new visualizations for performance metrics, a new costing breakdown, and a software inventory.

IPv6 IP Pools: IPv6 IP address pools can now be managed with the platform in addition to IPv4 IP addresses.

Regex Based Input Validation: Input validation can now be added to text and text area inputs using regex-based validation.

Core Platform Updates

The foundation for delivering self-service workload management and automation

RBAC UI/UX Enhancements:
Management of role permissions has been simplified in the UI with the addition of feature permissions categories, category level permission settings, and the ability to search features.

Granular Instance RBAC Permissions:
New granular permissions have been added to further tailor the level of access users are given to perform operations in a self-service fashion against instances.

Subtenant Role Management:
Management of roles in subtenants has been enhanced to allow the roles be updated from the master tenant.

Core Platform Updates

The foundation for delivering self-service workload management and automation

Credential Store Integration Support: Centralized credential management with the Morpheus credential store has been expanded to integrations such as IPAM, DNS, and more.

HashiCorp Vault Integration: Integrate Morpheus with HashiCorp Vault to allow Morpheus to reference Vault when accessing credentials.

CyberArk Conjur Integration: Integrate Morpheus with CyberArk Conjur to allow Morpheus to reference CyberArk Conjur when accessing credentials.

Configurable API Token Lifetime: Define the token lifetime of new and existing OAuth clients for API tokens.

Core Platform Updates

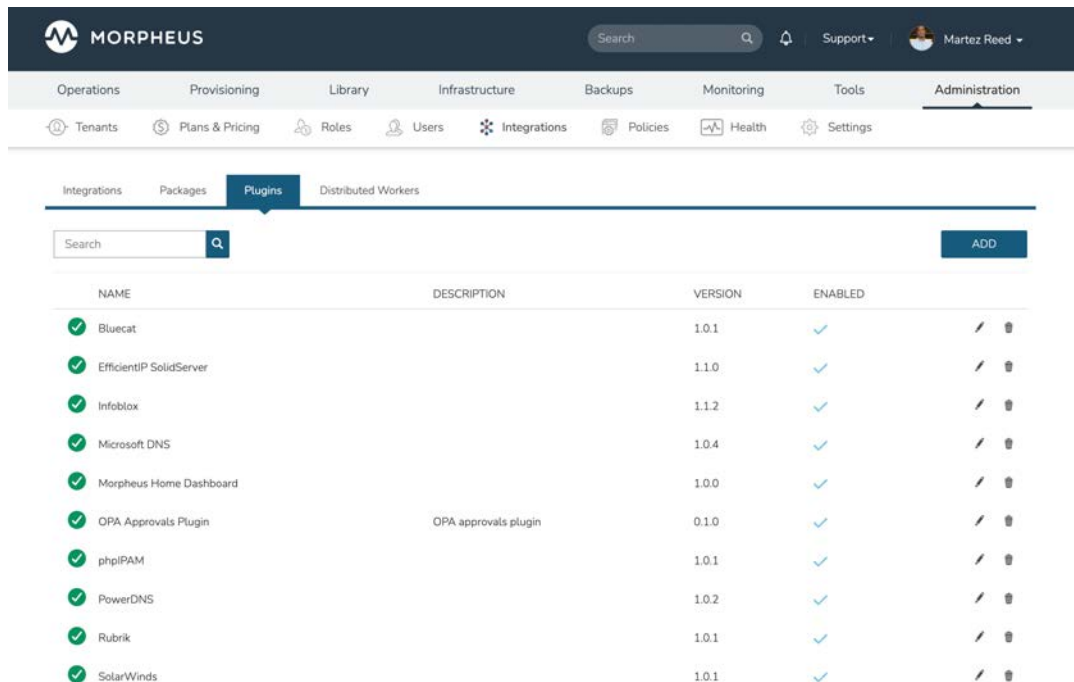The foundation for delivering self-service workload management and automation

Native Integration Plugin Migration:
Multiple native codeless integrations have been migrated to utilize the Morpheus plugin architecture.

Backup Provider: Develop custom backup integrations using the new backup integration plugin provider.

Load Balancer Provider: Develop custom load balancer integrations using the new load balancer integration plugin provider.

Custom Dashboard Provider: Develop custom dashboards with the new dashboard board provider using HTML, CSS, and JavaScript.
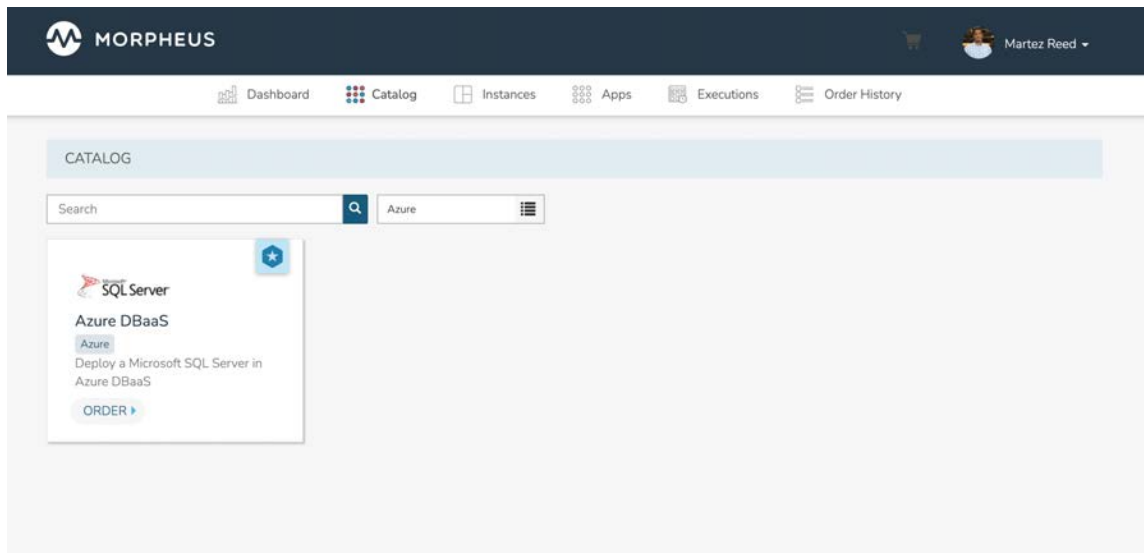
Core Platform Updates

The foundation for delivering self-service workload management and automation

Service Catalog Categories: Catalog items can now be added to categories to allow service catalog users to filter the catalog using customer defined categories.

Order History: View the history of catalog items that have been previously ordered as well as the ability to re-order available items.

Service Catalog Persona Permissions: Manage the full lifecycle of instances and apps with the service catalog persona.

Service Catalog Item Quantity: Order multiple instances of a service catalog item with the new quantity functionality.
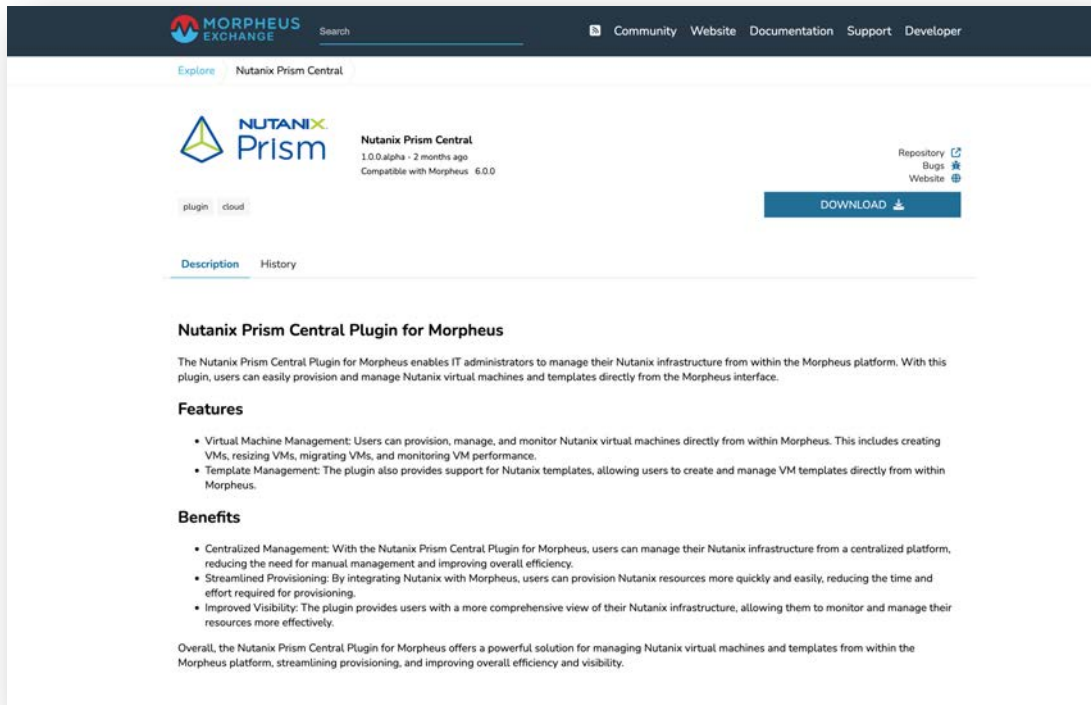
Hybrid Cloud

Hybrid Cloud Updates

Enabling hybrid cloud management at scale with a centralized self-service platform

Zone Pool Groups: Deploy workloads with greater intelligence (round-robin or capacity based) to the dozens of clouds supported by the Morpheus platform.

Custom Icons: Configure custom icons for cloud integrations to white label the underlying cloud technology delivered to customers.

AWS Orphaned Volumes Guidance: Reduce cloud spend with the new guidance recommendation that's been added for orphaned or unattached AWS EBS volumes.

Hybrid Cloud Updates

Enabling hybrid cloud management at scale with a centralized self-service platform

Azure Agentless Guidance: Azure guidance recommendation can now be surfaced in Morpheus without the need to have the Morpheus agent installed.

Azure Boot Diagnostics Custom Storage: Select a custom Azure storage account during the provisioning of Azure workloads for storing boot diagnostic data.

Nutanix Prism Central Alpha Support: The Nutanix Prism Central cloud plugin has reach alpha status and is ready for testing and evaluation.

Hybrid Cloud Updates

Enabling hybrid cloud management at scale with a centralized self-service platform

GCP Terraform Mapping: Terraform mapping support has been added for GCP to the Morpheus platform.

GCP Custom Machine Types: Provision and discover GCP virtual machines using custom hardware specifications available with custom machine types.

GCP Public Virtual Machine Images: Provision GCP instances using public virtual machine images to quickly get started with GCP.

Hybrid Cloud Updates

Enabling hybrid cloud management at scale with a centralized self-service platform

Floating IP Management: Support has been added for managing floating IP address.

OpenStack Terraform Mapping: Terraform mapping support has been added for OpenStack to the Morpheus platform.

Oracle Cloud Full Tag Sync: Tags are now bi-directionally synced between Oracle Cloud and Morpheus.
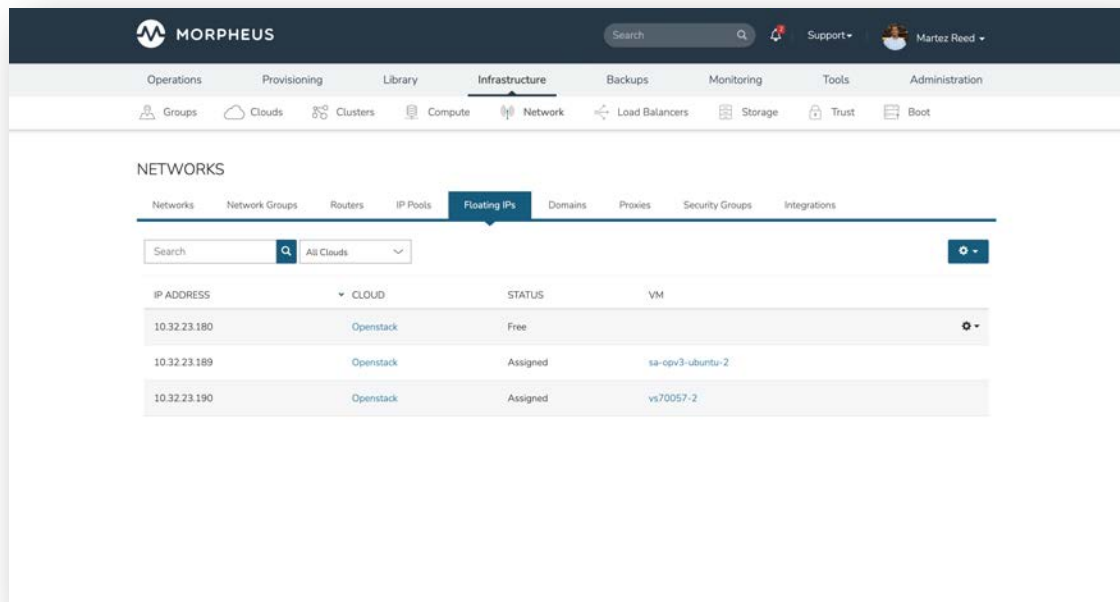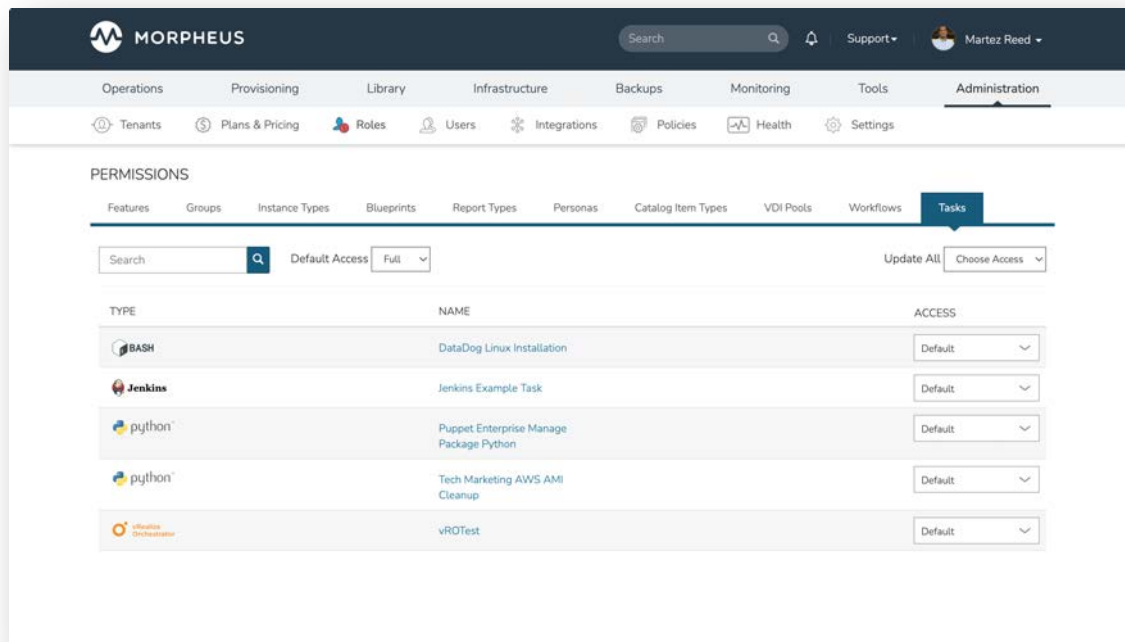
Infrastructure Automation

Infrastructure Automation Updates

Enabling automation at scale through integrations and self-service

Task & Workflow RBAC: Restrict access to automation tasks and workflows using the new task and workflow level role permissions.

UX Enhancements: The drop-down lists used to select automation tasks and workflows throughout the UI have been changed to typeaheads to provide a better user experience.

Nested Workflows: Support has been added for adding an automation workflow to another workflow with the new nested workflow task type.

Infrastructure Automation Updates

Enabling automation at scale through integrations and self-service

Operational Workflow Approvals: Scale self-service automation while maintaining the appropriate controls by requiring an approval prior to the execution of an automation workflow.

Jenkins Task Type: Integrate Morpheus with the Jenkins CI server using the new Jenkins task type available at share.morpheusdata.com to trigger the execution of a Jenkins job from Morpheus.

Automation Retry: Retry failed automation tasks using the new retry button. This enables workflows with a failing task to automatically continue once the failing task has been fixed.

Infrastructure Automation Updates

Enabling automation at scale through integrations and self-service

Task Multi-Tenancy: Automation tasks from the master tenant can now be shared with subtenants using the new visibility setting for automation tasks.

Provisioning Workflow Pricing Phase: Generate or override a workload's price dynamically using an automation task that has been added to the new provisioning workflow pricing phase.

Dynamic Automation Targets: Execute ad-hoc or scheduled automation against workloads based upon target metadata (labels).

Workflow Cancellation: Cancel an actively running workflow. Stops the workflow execution once the current task has completed.

Container Management

Container Management Updates

Enabling Docker and Kubernetes clusters management at scale

Cluster Approval Policy: Approval policies have been extended to Docker, KVM, and Kubernetes clusters. Require approvals for provisioning, modifications, and deletions.

MKS Cluster Upgrades: Upgrading an MKS cluster can now be performed in an automated fashion using the UI or the REST API.

MKS K8s 1.26 layout: Support has been added for provisioning MKS Kubernetes clusters running Kubernetes 1.26.

IT Service Management (ITSM)

IT Service Management Updates

Enabling self-service and automation at scale while aligning with ITSM processes

ServiceNow OAuth 2.0 Auth: OAuth 2.0 is now available as authentication method when configuring the ServiceNow integration in Morpheus.

ServiceNow Approval Metadata: Additional metadata (custom options) is passed from Morpheus to ServiceNow approval workflows when ServiceNow is used for Morpheus approvals.

ServiceNow Catalog Instance Metadata: Instances provisioned using the catalog integration now include the RITM number from ServiceNow on the instance in Morpheus.

Thank you!

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