Hybrid Cloud Management

The Micro Focus® Hybrid Cloud Management suite provides DevOps-driven hybrid and multi-cloud management, IT process orchestration and application release automation for organizations that want to master any cloud, any environment and any technology to accelerate time to market for any application.

Hybrid Cloud Management for the Digital Enterprise

Hybrid IT has quickly become the new normal, and IT operations teams are expected to offer both cloud and on-premise infrastructure options, whichever best meets the needs of the application or service. Often these additional options must be provisioned and managed with zero impact on staff, budget or service quality or even reduced staff and budget.

IT operations teams must adapt fluidly to new technologies, effortlessly adopt new cloud vendors and other services chosen by the business, and deploy new application releases with increasing frequency—while seamlessly managing and delivering updates to existing application workloads.

Hybrid Cloud Management (HCM), is a software suite centered around a robust hybrid cloud management platform providing enterprise-grade orchestration to deliver and manage hybrid IT services, automate application release, and broker fully cloud services.

Improve efficiencies and embrace new technologies like containers and microservices. HCM is now easier to implement and upgrade so you can provide flexible cloud services in an adaptive self-service catalog, accelerating time to market for applications that will differentiate your organization. Automate and integrate the planning, testing, execution and management phases of large scale data center and cloud migration projects.
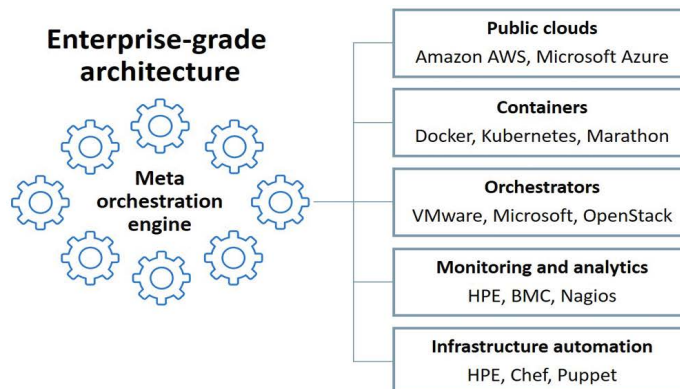
Deliver What the Business Needs When It Needs It

Designed to deliver real business value, the HCM suite automates IT operations tasks to enable key use cases such as hybrid IT service delivery, application release automation, and cloud brokering and governance. It orchestrates complex cloud management processes across IT silos, and provides dashboards, reporting, and a unified portal for self-service delivery of infrastructure and applications *(see Figure 1)*.

Key Use Cases

- **Hybrid IT Delivery**—provision and manage IT services across any cloud, container or infrastructure with a unified hybrid and multi-cloud management platform

- **IT Process Orchestration**—automate end to end IT process with a proven, enterprise-grade orchestration engine that provides extensive out-of-the-box content and open APIs to integrate across traditional and hybrid IT ecosystems, teams and tools

- **Application Release Automation**—automate platform and application deployment through all the application lifecycle stages with fully customizable stage gates to support DevOps and continuous delivery

- **Cloud Service Brokering and Governance**—aggregate public cloud services and hybrid cloud service designs, publish offerings into catalogs, broker service offerings through a centralized self-service portal

Figure 1. Orchestrate IT processes to design, deliver and manage hybrid IT services

Enterprise-grade architecture

Meta orchestration engine

Public clouds
Amazon AWS, Microsoft Azure

Containers
Docker, Kubernetes, Marathon

Orchestrators
VMware, Microsoft, OpenStack

Monitoring and analytics
HPE, BMC, Nagios

Infrastructure automation
HPE, Chef, Puppet

Key Features

Cloud-Agnostic Service Designs

Power your cloud initiatives with reusable, cloud-agnostic service designs to deploy and manage services for any environment, any technology and any application. Design a service once, and users can order it anytime and run it anywhere—anywhere their permissions allow, of course. Create designs from simple infrastructure offerings to complex, hybrid designs with on-premise, cloud, container and microservice components.

Service Aggregation, Brokering, and Governance

Aggregate services from public cloud providers and create service offerings with a few clicks. Create complex hybrid cloud service designs and publish these service offerings to consumable catalogs. Users can subscribe to offerings from multiple vendors in the same catalog using the self-service portal. Administrators can track usage, control costs with budgets, and enforce governance policies.

Powerful Self-Service Portal

Simplify cloud offerings to consumers with flexible, attribute-based service designs that accommodate consumer configurable variations in a single offering. Unify service offerings from multiple cloud vendors into a single portal for a consistent user experience. Control access to services with enterprise-grade multitenancy options and customizable permissions.

Built-In Application Release Automation

Enable DevOps and continuous delivery with built-in, fully customizable, automated stage gates with customized conditional gate actions. Empower development and testing teams to subscribe to required platform services as needed—straight from the release pipeline. Track service usage and costs across applications in development, testing and production environments. Integrate the application release pipeline with Fortify Static Code Analyzer to identify security vulnerabilities in

your source code early in the software development lifecycle.

Workload and Cost Analytics

Optimize workload placement, and continuously improve your cloud service delivery through the use of cloud analytics, capacity planning and showback reporting.

Enterprise-Grade Orchestration Engine

Orchestrate complete IT actions and processes across silos including the direction of third party automation and orchestration tools. Automate IT processes easily with the intuitive workflow designer and execution engine. Accelerate development and enable infrastructure as code with text authoring.

Out-of-Box Integrations and Open APIs

Leverage the extensive content library of over 8000 out-of-box operations and workflows. Access the "app store style" library to consume the latest content packs. Use wizards and open APIs to quickly create custom integrations.

Database and Middlware Automation

Provide DBaaS (database as a service), PaaS (platform as a service), and XaaS (anything as a service). Out-of-box content packs provide workflows and operations that you can include in your service designs and publish in your catalog to automatically provision and configure databases and middleware. This built-in intelligence is based on industry standards, vendor best practices, and real-world experience.

SAP Basis Orchestration

SAP-focused content to accelerate service delivery and orchestrate SAP workflows. Automate key SAP administration, maintenance, provisioning, and daily processes.

Next Generation Container-Based Architecture

Minimize implementation and upgrade efforts with pre-integrated, containerized components

based on open-source Docker containers and Kubernetes technologies. Deploy the HCM suite quickly, and easily scale out as necessary. Get access to new features frequently with quarterly updates that are easy to apply.

Cloud Assessment Services Add-On

Discover, collect and analyze existing applications and infrastructure to evaluate the ROI for migration of these workloads to the cloud. Intuitive dashboards identify which workloads are better suited for which cloud. Evaluate recommendations to build a customized cloud migration strategy.

Cloud Migration Services Add-On

Safely migrate complex workloads from anywhere-to-anywhere with least amount of risk and cost. Automate testing to ensure a successful migration with near-zero downtime at cutover. A highly scalable solution—migrate between multiple physical, virtual, and cloud servers rapidly and reliably.

Hybrid Cloud Management: The Complete Package

HCM is more than just a hybrid cloud management platform. It is a comprehensive, fully integrated suite of components designed around three key IT Operations use cases: hybrid IT delivery, application release automation, and cloud brokering. HCM is available in three editions that cater to these use cases (see Figure 2 on the following page).

Key Benefits

Accelerate Time to Market

Accelerate delivery of hybrid IT services by reducing manual, error-prone tasks. Improve speed and agility by orchestrating processes across domains, systems, and teams. Services that used to take days and weeks to deliver can now be available in hours or minutes which will ultimately accelerate your release process.

Features and Capabilities	Express	Premium	Ultimate
Cloud Brokering and Governance			
Catalog aggregation and brokering to publish services in a few clicks	Y	Y	Y
Analytics and reporting to showback costs and usage	Y	Y	Y
Policy-based governance for quota management		Y	Y
Self-Service Hybrid IT			
Next generation container-based architecture for easier installation and management	Y	Y	Y
Self-service portal with ChatOps for delivering multi-cloud services	Y	Y	Y
Attribute-based catalog options to simplify ordering		Y	Y
Cloud-agnostic service designs enable "design once–run anywhere" services		Y	Y
OOB content and open APIs for integration with any cloud, container, or infrastructure		Y	Y
Comprehensive DB & MW content to enable PaaS and XaaS		Y	Y
SAP Basis Orchestration: SAP-focused content to accelerate service delivery and orchestrate SAP workflows		Y	Y
Workload optimization for VM placement		Y	Y
End-to-End IT Process Orchestration			
Proven, enterprise-grade E2E orchestration engine for automation		Y	Y
Wizards, extensive OOB content, and open APIs for task automation, incident remediation, etc.		Y	Y
Accelerating DevOps			
Analytics to identify bottlenecks and accelerate application delivery			Y
Match infra and app requirements at deployment time for consistent deployment across lifecycle stages			Y
Integrated bridge to CMP for on-demand consumption of cloud services from release pipeline			Y
Built-in, fully customizable stage gates for continuous delivery and continuous deployment			Y
Fortify integration for secure app delivery			Y
Cloud Assessment and Migration			
Discover, analyze and recommend a cloud transformation and migration strategy	Add-On	Add-On	Add-On
Plan and migrate workloads to cloud or between data centers with predictability and near-zero downtime	Add-On	Add-On	Add-On

Figure 2. Hybrid Cloud Management editions support key use cases

Supported Technologies

Cloud and Infrastructure Providers
- Amazon Web Services
- Ansible
- Chef
- Forman
- Google Cloud Platform
- HPE Insight Control
- HPE Oneview
- Micro Focus Server Automation
- Microsoft Azure
- OpenStack
- Puppet
- SaltStack
- VMware

Continuous Integration
- Atlassian Bamboo
- Jenkins

Containers
- Docker
- Kubernetes
- Marathon
- Red Hat OpenShift

Additional Content
- Database: Microsoft SQL, Oracle, PostgreSQL
- Middleware: Jboss, Oracle WebLogic, WebSphere
- Monitoring: Micro Focus OpsBridge, Nagios, PushOver, Zabbix
- Network: A10, Cisco Nexus, NetScaler, F5, Micro Focus Netwok Automation, VMware NSX
- Service Management: Micro Focus ITSMA, Remedy, ServiceNow
- Storage: 3Par, Huawei OceanStor, Micro Focus Storage Operations Manager, NetApp

The above is a partial list of integrations including some of our latest and most popular content. For a complete listing of all content with functionality descriptions, visit the Micro Focus ITOM Marketplace for Hybrid Cloud Management.

Improve Efficiency and Productivity
Leverage unified management of multiple clouds, environments and technologies for faster, more efficient delivery of infrastructure and platform services. Orchestrate IT processes across IT silos to reduce errors and increase productivity.

Increase Investment in Innovation
Allocate more budget and resources to innovation. Developers can spend more time writing code and less time configuring environments and troubleshooting deployment issues. QA teams can spend more time testing and less time trying to find and configure test environments. And IT teams can focus on innovation rather than troubleshooting.

Enhance the End User Experience
Streamline user interaction with IT with a centralized, self-service portal designed to enhance the user experience. Create flexible, attribute-based catalog offerings that accommodate variations in a single catalog entry which decreases the number of services in the catalog and simplifies both the user and administrator experience.

Ops at the Speed of Dev

The Hybrid Cloud Management suite is an end-to-end solution that offers the flexibility and simplified operations you need to increase agility and efficiency in a heterogeneous, hybrid IT environment. Automate mundane tasks and orchestrate processes across domains, systems, and teams to accelerate hybrid IT delivery.

Create comprehensive service designs and leverage a unified self-service portal to provide what the business needs when it needs it.

Learn More At
Visit: **www.microfocus.com/hybridcloud**

Read the Cloud Management blog.

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