

### Overview

#### Mesosphere DC/OS from HPE

Hewlett Packard Enterprise offers, certifies and supports Mesosphere DC/OS software for HPE ProLiant and BladeSystem servers.

Mesosphere delivers DC/OS: a complete cloud native platform that runs anywhere

- Elastically runs containerized applications and data services (like those on AWS)
- Allows apps to run on-prem and in any cloud with no modifications
- Built on a production-proven open source core (Apache Mesos)

Mesosphere DC/OS enables:

- Accelerated time to market
- Agile and efficient hybrid infrastructure
- Resilient and automated operations

Mesosphere DC/OS is offered as a turnkey solution from Hewlett Packard Enterprise with professional services and a single point of contact for support, available in 9x5 and 24x7 options. With this support, customers receive installation, configuration and troubleshooting assistance.

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### At A Glance

#### Mesosphere DC/OS from HPE

Hewlett Packard Enterprise offers Mesosphere Enterprise DC/OS.

- The Mesosphere products are available only in electronic delivery format.
- HPE serves as the single point of contact for HPE Mesosphere offerings and provides 1 year 9x5 / 24x7 support services.
- HPE will implement Mesosphere into your environment, speeding the time to initial deployment, as part of HPE Cloud Native consulting services.

For more information and complete list of Mesosphere DC/OS features please visit: <https://mesosphere.com>

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### Models

Mesosphere DC/OS is licensed per node and Mesosphere training is per seat.

#### Mesosphere DC/OS Software

Mesosphere Enterprise DC/OS 1yr Subscription 9x5 Support E-LTU	Q1N37AAE
Mesosphere Enterprise DC/OS 1yr Subscription 24x7 Support E-LTU	Q1N38AAE

#### Mesosphere Training

Mesosphere Enterprise DC/OS Foundation Training E-LTU	Q1P46AAE
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## Key Features

- **Container Orchestration.** Use out of the box container orchestration capabilities for Docker and Mesos containers including automatic workload recovery, security, networking, service discovery, storage and more.
- **Data Service Management.** Easily deploy and elastically run distributed data services such as Spark, Kafka, Cassandra and HDFS on a single platform, simplifying operations and administration.
- **Run DC/OS Anywhere.** Use DC/OS on bare-metal, virtual (vSphere or OpenStack) and cloud (AWS, Azure, GCE). The only requirement is a modern Linux distribution. Windows support coming soon.
- **App Portability Across Cloud.** Easily migrate your application and data services to any cloud with minimum change to your application or DevOps process.
- **Extensible & Scalable Architecture.** A two-level scheduler architecture allows you to run existing and future workloads on the same machines and enables horizontal scalability for up to tens of thousands of servers.
- **Strong Resource Isolation.** Orchestrate workloads and share datacenter resources while maintaining strong resource isolation for Memory, CPU, network and storage, increasing utilization and reducing noisy neighbor problems.
- **Identity & Access Management.** Fine-grained access control & integration with multiple identity providers (LDAP, Active Directory, SAML 2.0 and OpenID Connect).
- **Secrets Management.** Securely distribute sensitive information to applications at runtime while maintaining access control and encryption at communication and at rest.
- **Cluster-Wide PKI Encryption.** Secure communication between DC/OS components through a Public-Key-Infrastructure encrypted control plane for regulatory compliance.
- **Fine Grained Access Control.** Limit access and visibility to datacenter resources such as containers, jobs, data services and secrets across teams.
- **Service Accounts.** Securely integrate with CI/CD systems and other automation software using token-based authentication to DC/OS services.
- **Containers Don't Run as Root.** Reduce privilege escalation risks by running containers with limited privileges, not as root user.
- **Broad Partner Ecosystem.** DC/OS Universe includes open source as well as enterprise supported offerings, allowing you to experiment with new technologies and quickly move from ideas to production.
- **Offline Universe.** Build an internal catalog of officially approved services without requiring internet access and even build your own custom services for internal consumption.
- **Same Interface, Any Cloud.** Easily deploy applications on-premise and on the cloud with a single administration experience for your app developers, data scientists and infrastructure operators.
- **Powerful CLI and GUI.** Effortlessly manage your apps, services and infrastructure with a powerful CLI and simple to use GUI.
- **Zero Downtime Deployment.** Deploy and update applications anytime with advanced self-service deployment strategies such as blue-green & Canary deployment.
- **Self-Healing Infrastructure.** Automatically detect and recover workloads in case of node and workload failure, with no configuration required.
- **Non-Disruptive Upgrades.** Easily upgrade DC/OS in-place without any service disruption or even migrating running container or data workloads.

## Overview

- **Logging and Metrics.** Effortlessly troubleshoot and monitor through simplified logging and metrics collection across your cluster and applications.
- **Persistent and External Volumes.** Support for persistent volumes that are resilient to restart and external volumes that migrate with the application (requires REX-Ray plugin).
- **Built-In Service Discovery.** As workloads move around for failover, scaling or updates, service discovery provides continuous, real-time uninterrupted access to all application instances.
- **IP-Per-Container with Virtual Network Overlay.** Deploy traditional applications with legacy port and IP requirements using virtual network overlay.
- **Dynamic Distributed Load Balancing.** Integrated distributed load balancing provides traffic optimization, non-disruptive application upgrades and real-time detection of network failures.

## Summary of Changes

Date	Version History	Action	Description of Change
13-Feb-2017	Version 1	Created	New QuickSpecs



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