DC/OS Documentation

Welcome to the DC/OS documentation. The DC/OS documentation can help you set up, learn about the system, and get your applications and workloads running on DC/OS.

Release Notes

See the DC/OS releases page.

Overview

The overview topics help you get started and learn the DC/OS fundamentals.

What is DC/OS?

Architecture

Features

Concepts

High Availability

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Installing and Upgrading

DC/OS can be installed on any cluster of physical or virtual machines.

Cloud

Custom

Local

Upgrading

Opt-Out

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GUI

The DC/OS web interface provides a rich graphical view of your DC/OS cluster. With the web interface you can view the current state of your entire cluster and DC/OS services. The web interface is installed as a part of your DC/OS installation.

CLI

You can use the DC/OS command-line interface (CLI) to manage your cluster nodes, install DC/OS packages, inspect the cluster state, and administer the DC/OS service subcommands.

Installing

Configuring

Updating

Multiple Clusters

Uninstalling

View all 6 posts →

Administering Clusters

SSHing into Nodes

Finding a Public Agent

Component Management

Securing a Cluster

Managing AWS

View all 10 posts →

Networking

DC/OS provides a number of tools out of the box for service discovery and load balancing. Here's an overview of the options, with some general guidelines on what to use in which situations.

Load Balancing and VIPs

Marathon-LB

Mesos-DNS

Virtual Networks

High-Availability

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Security

You can enable authentication in your datacenter with DC/OS oauth. Authentication is managed through the DC/OS web interface. The Admin Router enforces access control.

Authentication HTTP API Endpoint

Configuring Your Security

Managing Authentication

Adding Users Manually

User Management

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Storage

DC/OS applications lose their state when they terminate and are relaunched. In some contexts, for instance, if your application uses MySQL, or if you are using a stateful service like Kafka or Cassandra, you'll want your application to preserve its state. Configure Mesos mount disk resources to enable users to create tasks that can be restarted without data loss. Learn how to create stateful applications.

Mount Disk Resources

External Persistent Volumes

NFS Server

Local Persistent Volumes

Metrics

The metrics component provides metrics from DC/OS cluster hosts, containers running on those hosts, and from applications running on DC/OS that send statsd metrics to the Mesos

Metrics Module. The metrics component is natively integrated with DC/OS and is available per-host from the `/system/v1/metrics/v0` HTTP API endpoint. No additional setup is

per-host from the `/system/v1/metrics/v0` HTTP API endpoint. No additional setup is required.

Quick Start

Metrics API

Metrics Reference

Datadog Metrics for DC/OS

Monitoring, Logging, and Debugging

Monitoring the health of all the pieces that make up DC/OS is vital to datacenter operators and for troubleshoooting hard-to-diagnose bugs. You can monitor the health of your cluster components from the DC/OS UI component health page. The component health page displays information from the system health API, which monitors the core DC/OS components.

Performance Monitoring

Logging

Debugging

Deploying Jobs

You can create scheduled jobs in DC/OS without installing a separate service. Create and administer jobs in the DC/OS web interface, the DC/OS CLI, or via an API.

Quick Start

Examples

Deploying Services and Pods

DC/OS uses Marathon to manage processes and services. Marathon is the “init system” for DC/OS. Marathon starts and monitors your applications and services, automatically healing failures.

Installing

Marathon Configuration Reference

Creating Services

Task Handling

Configuring Universe Services

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Tutorials

This is a collection of tutorials about using DC/OS.

DC/OS 101

Building an IoT Pipeline

DC/OS Service Tutorials

Autoscaling

Running a Service

View all 7 posts →

API Reference

The DC/OS API is a collection of routes backed by DC/OS components that are made available through an API gateway called Admin Router.

Cluster Access

Versioning

Master Routes

Agent Routes

Developing Services

This section describes the developer-specific DC/OS components, explaining what is necessary to package and provide your own service on DC/OS.

CLI Specification

Access by Proxy and VPN

Support

DC/OS is a free and open source project and community-supported product.