# What's New in Docker Datacenter

Advancing Docker in the Enterprise

Docker Datacenter (DDC) is the Containers as a Service (CaaS) platform for enterprise IT and application teams to build, ship and run, any application anywhere. The latest DDC release includes a number of features and improvements focused in the following areas:

- **Enterprise orchestration and operations** to make running and operating multi container applications simple, secure and scalable
- **Integrated end to end security** to cover all of the components and people that interact with the application pipeline
- **User experience and performance improvements** ensure that even the most complex operations are handled efficiently
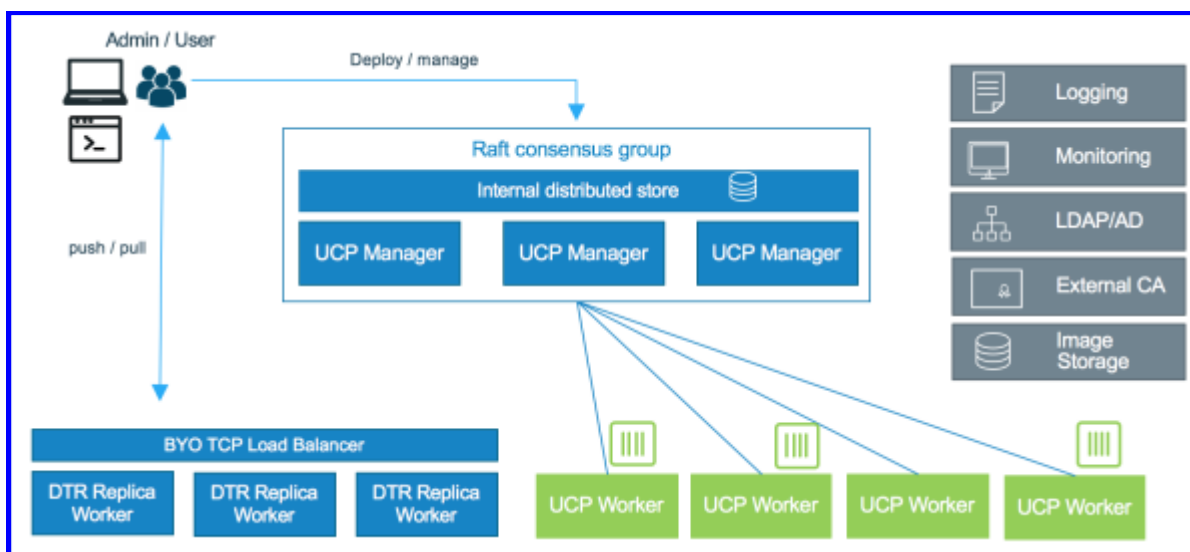
Enterprise Orchestration and Operations

This release of Docker Datacenter integrates the built in orchestration capabilities of Docker Engine 1.12 into the platform.
- Built in clustering and container scheduling
- Support for Engine 1.12 swarm mode and Engine 1.11 with Docker Swarm
- Deploy, operate applications and services
- Container centric networking, load balancing and routing mesh

Application Services, Load Balancing and Service Discovery

Docker Datacenter integrates the services deployment model into the platform and additionally leverages the built in networking model to deliver new capabilities.
- Create, deploy and scale services in UI
- Maintain desired application state
- HTTP Routing Mesh for hostname based routing of incoming traffic (experimental)

Backwards Compatibility

In addition to Engine 1.12 swarm mode, Docker Datacenter also continues commercial support for versions 1.11 and 1.10. for a seamless transition.

- Two orchestration models are supported on the same cluster, transparently to the user
- Deploy and manage applications defined with Docker Compose version 2 files
- Compose applications leverage the Docker Swarm orchestration while services use Engine 1.12 swarm mode.

Integrated Image Signing and Policy Enforcement

This release integrates the installation Docker Content Trust into single Docker Datacenter set up. A simple configuration allows admins to define a policy around which teams must sign an image before it can be deployed into production.

Refreshed UI with More Features

This release brings an updated user interface and the introduction of new capabilities and visibility into the intuitive, point and click user interface.
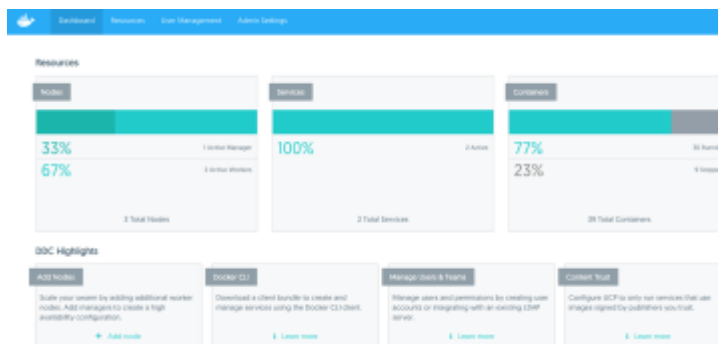
In addition to deploying services, new capabilities have been added to the web UI like:

- **Node Management** provides the ability to add, remove, pause nodes and drain containers from the node. Additionally, the ability to manage labels and SAN (Subject Alternative Name) for certificates assigned to each node.
- **Tag Metadata** is available for each tag pushed in the image repository to provide greater visibility into the changes with each image.
- **Container Health Checks** are available for configuration and visibility in the DDC UI in the container details page.
- **Access Control for Networks** allows admins to assign labels to networks for granular levels of access control, similar to services and containers.
- **Docker Trusted Registry Installer** commands are now available from DDC UI to make it easier than ever to get set up.
- **Expanded Storage Support for images** includes new and enhanced support like Google Cloud Storage, enhanced configuration for NFS, and S3 Compatible Object Storage (e.g. IBM Cleversafe).
- **Garbage Collection Enhancements** focused on improving the performance of GC tasks.

www.docker.com/ddc