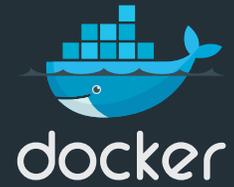


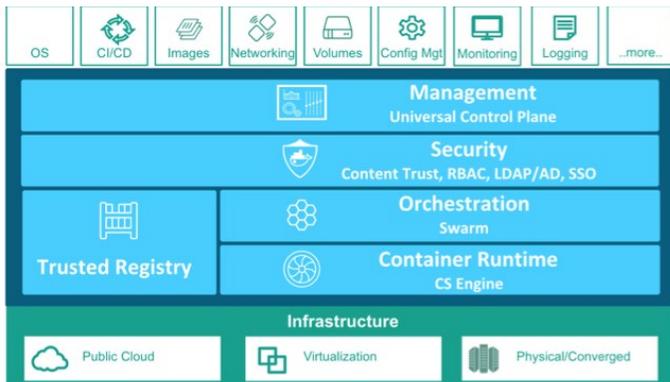
# Docker Trusted Registry

Secure Content and Collaboration on your Distributed Applications



Enterprise application teams are evolving to DevOps methodologies and distributed application architectures to not only accelerate software delivery but also reduce the rate of defects. Docker enables building distributed applications by eliminating the headaches of matrices of different language stacks, platforms tooling and infrastructure dependencies. Docker containers package an application and dependencies together and are isolated from the environment making them easily portable from one machine to another. The Docker image is the building block for these application containers - these images are built, shared, updated and deployed as containers.

Docker Trusted Registry is an on-premises registry that allows enterprises to store and manage their Docker images on-premise or in their virtual private cloud (VPC) to meet security or regulatory compliance requirements. A part of the Docker Containers-as-a-Service Platform, an end to end IT managed framework giving developers and IT operations teams agility, portability and control, Universal Control Plane and Trusted Registry comprise our on-premises offering for enterprises that need to host their content and management plan on-premises or in a VPC.



## Key Benefits

- **Granular User Management:** SSO with Universal Control Plane, Role-based access control, set up Teams/orgs, LDAP/AD authentication
- **Resource Management:** Garbage collection for memory saving, CPU, RAM and Storage monitoring
- **Security and Compliance:** On-prem deployment, user audit logs. image signing via Docker Content Trust

A core part of the Docker CaaS platform, Docker Trusted Registry allows enterprises to store and manage their Docker images on-premises or in their virtual private cloud (VPC). Trusted Registry is part of the Docker Datacenter Subscription which also includes, Universal Control Plane, commercially supported Engine and support. Trusted Registry is easy to deploy, configure and integrate with your existing infrastructure and application delivery workflows.

## High Availability

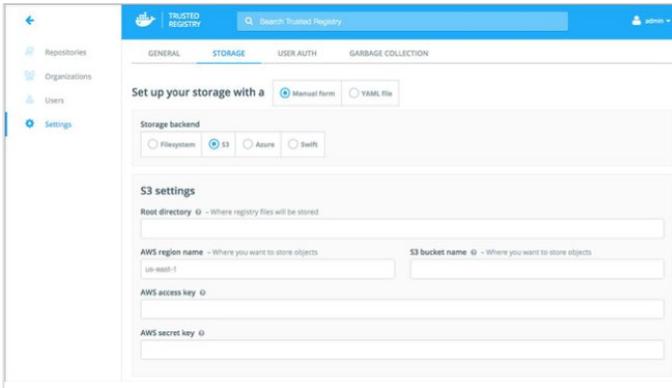
High Availability (HA) for DDC's Trusted Registry service is a cornerstone of delivering an enterprise-class solution. Built for the enterprise, the on-premises registry includes high availability and scale-out deployment for both performance and availability uptime guarantees. This ensures continuous availability for Docker Trusted Registry, even in the event of an instance going down. HA is made possible with "replicas." Each replica is a fully functional DTR instance and can be used in place of another failed instance should a failure occur. To ensure a healthy cluster of replicas the minimum number of DTR replicas needed in an organization is 3 instances. This will ensure continued availability in the case of 1 failure. To ensure HA for 2 failures, enterprises must use 5 DTR instances, and so on. The basic equation for HA is (#of Nodes - 1) / 2. DTR replicas must be load balanced behind a TCP-based firewall to ensure registry clients can seamlessly switch to function with a new replica when a failure occurs.

ID	NODE	CONTAINER NAME	IMAGE	CREATED
35024678794	3 replica DTRNode-69722C	thr-rgn- dtrc14dad65ae	sha256:6811abd155a31fb84c3e6c44676ca88c075a134a9595041ee4d864515a599	2016-04-25 11:53:59 0700
6e9e3162701	3 replica DTRNode-69722C	thr-agi- dtrc14dad65ae	sha256:62b4768118a8bdc150c97ae309485b81eac02894919eac2734979271987	2016-04-25 11:53:55 0700
4e4539612903	3 replica DTRNode-69722C	thr-registry- dtrc14dad65ae	sha256:993f72e49f9339a13988f9e144e4888a526e9937b8f181adab889b6ca340	2016-04-25 11:53:50 0700
4489482719	3 replica DTRNode-69722C	thr-entire-obj- dtrc14dad65ae	sha256:35a3401b0f05a7a1b5f42446708839b1c12227491b7643e0d83ba2038f	2016-04-25 11:53:43 0700
072931aa9fc	3 replica DTRNode-69722C	thr-entire- dtrc14dad65ae	sha256:2056c76481405689045812b05587c30aa2248c23328069070142547846043	2016-04-25 11:53:36 0700
Docker Trusted Registry - (Replica 1e2643d9616e) 5 replicas 0 errors 0				
Docker Trusted Registry - (Replica 956c196dc7e) 5 replicas 0 errors 0				

## Deployment Flexibility

Docker Trusted Registry gives you the flexibility you need to deploy either on-prem or within your virtual private cloud (VPC) environment giving you control over where your Docker images are stored. Manage and distribute your Docker images from within your own firewall, for secure collaboration and data protection.

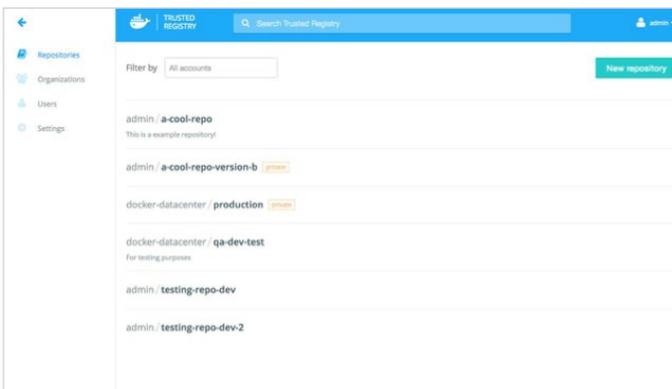
Trusted Registry easily integrates into your existing infrastructure. Support for a wide range of storage drivers like S3, Azure, Swift, and local filesystem provides choice in storage provider.



**Feature Note:** Select the storage backend that you would like to choose. Choose from S3, Azure, Swift or your local filesystem.

## Easy to Use and Manage

Great tools are not helpful if they are not easy to use. Trusted Registry gets you started fast with a quick, one-click install and GUI based system configuration. Additionally, non-disruptive updates make it easy to apply the latest patches and releases, ensuring a secure and up to date environment. Upgrading to the latest minor, patch, or major release is just a one-button click within the application. Additionally, admins can monitor system health directly from the web UI.

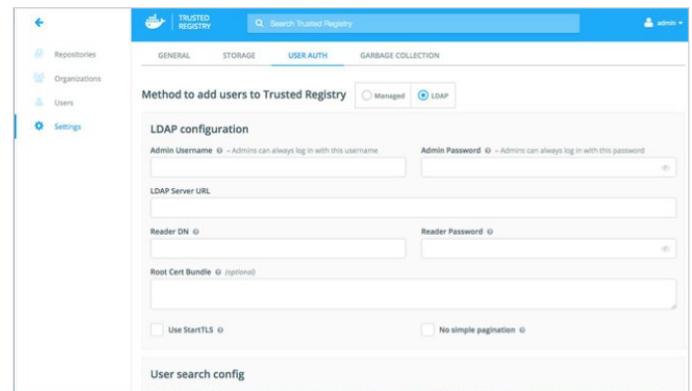


**Feature Note:** Within Trusted Registry you can use the search index to search and browse through all of the repositories within the registry.

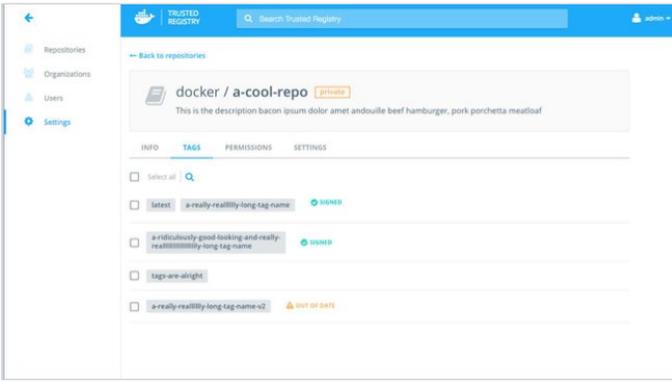
Manage your Docker images and repositories in the web UI. Gain visibility across all the Docker content in your organization. Users can search and browse to find the image repositories they need. Repositories can be made public or private in your Trusted Registry with access granted to users as the administrator sees fit. To optimize your storage, Trusted Registry allows you to delete tags so they no longer appear in the UI for your users. These deleted tags are then handled by a garbage collection process to remove them from disk. You can customize the timing and frequency of garbage collection to one that works best for your organization.

## Secure Access and Content

Trusted Registry allows you to manually control who has access to the Docker images and the kind of access they have. The option for LDAP/AD integration means users will authenticate directly against your organization's directory services when accessing Trusted Registry. Configure various role-based access levels like admin, user or read-only permissions for your users and groups of users in organizations. Create organizations to group people together in teams and assign permissions to repos. With Docker Content Trust, admins can sign images once created for added security and to ensure the latest version of an image is being used. Trusted Registry also stores the user audit logs to track all user activity taking place within the system.



**Feature Note:** Trusted Registry provides flexibility in configuration to meet your team's needs. Configure your security settings, upload certificates, setup SSL for authentication and integrate existing technologies like directory services. You can run initial DTR logins against your current LDAP server to quickly assign role based access to developers. Implementing a least privilege strategy can drastically increase the security of your Docker images.

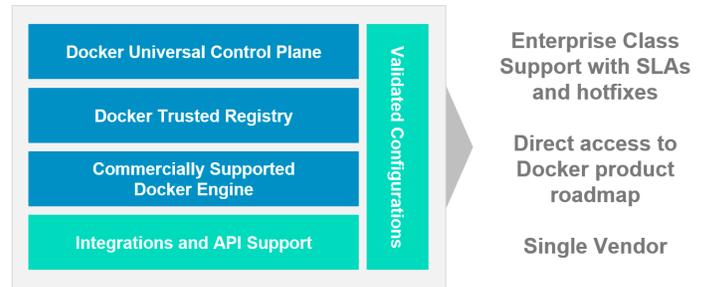


**Feature Note:** Trusted Registry comes with Docker Content Trust out of the box. This allows admins to sign images. In the screenshot above you can see the green “signed” tag. This gives IT operations the ability to choose to use only signed images in production, increasing image security, and ensuring that the latest version of the image is being used.

## The Docker Datacenter Subscription

The Docker Datacenter subscription enables enterprises to leverage a platform built by Docker, for Docker. The Docker native tools are integrated to create an on premises CaaS platform, allowing organizations to save time and seamlessly take applications built in dev to production.

Docker Datacenter is an integrated solution including open source software, commercial software, the integrations between them, full Docker API support, validated configurations and commercial support for your Docker Datacenter environment. A pluggable architecture allows flexibility in compute, networking and storage providers used in your CaaS infrastructure without disrupting the application code. Leverage existing technology investments with Docker Datacenter. The open APIs allow your Docker Datacenter CaaS to easily integrate into your existing systems like LDAP/AD, monitoring, logging and more.



**Enterprise Class Support with SLAs and hotfixes**

**Direct access to Docker product roadmap**

**Single Vendor**

Name	Docker Universal Control Plane	Docker Trusted Registry	Commercial Support
Description	Enterprise-grade on-premises service for managing and deploying dockerized distributed applications in any on-premises or virtual cloud environments. It's built-in security features like LDAP/AD integration and role-based access controls (RBAC) allow IT Ops teams to secure their environment and comply with industry regulations.	On-premises service for storing, distributing and securing image content. Built for the enterprise, this registry gives IT Ops teams the ability to ensure secure content and secure collaboration between developer teams and sysadmins in order to build, ship and run applications.	Docker Datacenter subscribers receive commercial support for their Docker engines running within their environment. We call these "Commercial Support Engines." The CS Engine is made up of the same Core Engine software as the OSS engine, but with added support from the Docker support team.
Features	<ul style="list-style-type: none"> <li>• GUI management for apps, containers, nodes, networks, images and volumes w/built-in Docker Compose</li> <li>• Out-of-the-box high availability</li> <li>• LDAP/AD integration</li> <li>• Role-based access control for teams and orgs</li> <li>• Push/pull images from DTR, directly from w/in UCP</li> <li>• Docker native stack with Swarm, Compose, CS engine and DTR</li> <li>• Out-of-the-box TLS</li> <li>• Monitoring and logging of UCP users and events</li> </ul>	<ul style="list-style-type: none"> <li>• Web UI for admins and users</li> <li>• LDAP/AD integration</li> <li>• High availability for DTR instances via replicas</li> <li>• Role-based access controls for teams and orgs</li> <li>• Docker Content Trust Image signing</li> <li>• Garbage collection for removal of orphaned images</li> <li>• User audit logs for monitoring</li> <li>• Installs directly into UCP and can be managed from w/in UCP GUI</li> </ul>	<ul style="list-style-type: none"> <li>• Direct line of support contact from Docker Support teams member</li> <li>• Receive bug fixes</li> <li>• Receive patches</li> <li>• Receive hot fixes</li> <li>• Predictable cadence (Docker owns Docker Roadmap)</li> <li>• Longer supported versions so teams can update less frequently</li> <li>• Provide defect fixes when necessary</li> <li>• Validations and configurations</li> <li>• Integrations and API support</li> </ul>

## Support from the Source

With a Docker Datacenter subscription, enterprises receive technical support directly from Docker engineering, not an open source forum. This team are the primary contributors and maintainers of the upstream Docker projects. With Datacenter Subscription, customers receive support that is:

**Responsive** - The subscription comes with a direct support contact giving subscribers access to private communications channels with the support team at dedicated SLAs (see below). The Docker support team will also provide fixes for any breakages or bugs found so that enterprises can rest assured that their environment achieves peak uptime.

**Secure** - The Docker team validates and tests will address any security vulnerabilities found within IT environments and issue necessary patches, hot fixes as well as validation for configurations.

**Stable** - The Docker team provides: a predictable release cadence as they own the Docker product roadmap, longer supported versions, defect fixes, validations for operating systems and full Docker API support.

## Get Started Today

The Docker Datacenter subscription is available with two different support coverage windows. You can choose from Business Day Support which provides 12 hour cover during the business week or Business Critical Support for 24 hours by 7 days a week and 365 days a year.

<b>Business Day Support</b> <small>(Priced per node per year)</small>	<b>Business Critical Support</b> <small>(Priced per node per year)</small>
9am-6pm local time	24/7/365
Docker Universal Control Plane	Docker Universal Control Plane
Docker Trusted Registry	Docker Trusted Registry
Supported Docker Engine	Supported Docker Engine

The Docker Datacenter subscription provides a fully supported end-to-end CaaS platform for your on-premises or virtual private cloud, getting you access to the world-class expertise of the Docker support and product teams that enterprises rely on.

Interested in learning more about the Docker Datacenter subscription or in signing up for a free 30-day trial? Contact our Sales team at [www.docker.com/contact](http://www.docker.com/contact) or visit our website <https://www.docker.com/pricing>.

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