RES + DOCKER
Automate, personalize and secure your container infrastructure

Docker is an open platform for developing, shipping and running apps fast. With Docker, you can separate your apps from your infrastructure and treat your infrastructure like a managed app. In combination with RES, companies using Docker are given an easy-to-use self-service portal where they can interact with IT without delay in order to deliver apps held in Docker containers.

MULTI-CONTAINER ACCESS AND PROVISIONING

Enterprises use the Docker Trusted Registry to create and control repositories. Access to repositories is based on organizations and teams, which can be controlled by Docker or synchronized with LDAP. RES enables user-provisioned Docker resources in a controlled environment, providing IT insight and control of all resources.

RES can automatically grant access to Docker containers based on qualification triggers, identifying when a new user should be granted access to a container based on a pre-defined workflow. Optionally, the user can request access through the RES self-service portal, and from the request, RES can kick off a series of workflow actions to give direct access or launch an approval cycle.

BUSINESS VALUE CHECKLIST
Use RES solutions with Docker to automate and simplify:
✓ License consumption management
✓ Implementation of app timeshares
✓ Multi-container app provisioning

RES can make the necessary changes and communicate with Docker to start container(s) to host the app. New resources will then be available on the composed workspace. This streamlined process allows organizations to make apps available without initially consuming server resources to host a service that is not yet being used. Even more control and security can be added by natively deploying Docker containers on Windows and VDI deployments.

IMPROVED LICENSE MANAGEMENT

RES helps control license use on the front and back end to ensure organizations stay in compliance with licensing. Challenges, such as container sprawl, can occur with each container when you include the complexity of licensed components. With RES, you can control license consumption in two ways. First, it can control the number of subscribers to a Docker app or service. Second, if the service workflow includes pulling images and spinning up containers, RES can control the number of active containers to ensure that license limitations are met.

IMPLEMENT APP TIMESHARES

In addition to providing access, RES can provision user access to a Docker resource for a limited amount of time or build policy triggers to remove access. Users may only require access to an app for a few days or weeks in order to complete a project, so once this period expires, the resource is reclaimed and accessible for another user. Or, policy may state that as a user's identity changes based on location or department, access to a container also changes. Because RES is automating access removal, workflow can also be created to trigger termination of Docker containers no longer in use. This improves overall maintainability of an organization's Docker environment at a lower cost for IT.

RES

Automation Console → **Datastore** ↔ **Dispatcher** ↔ **Automation Agents** → Docker
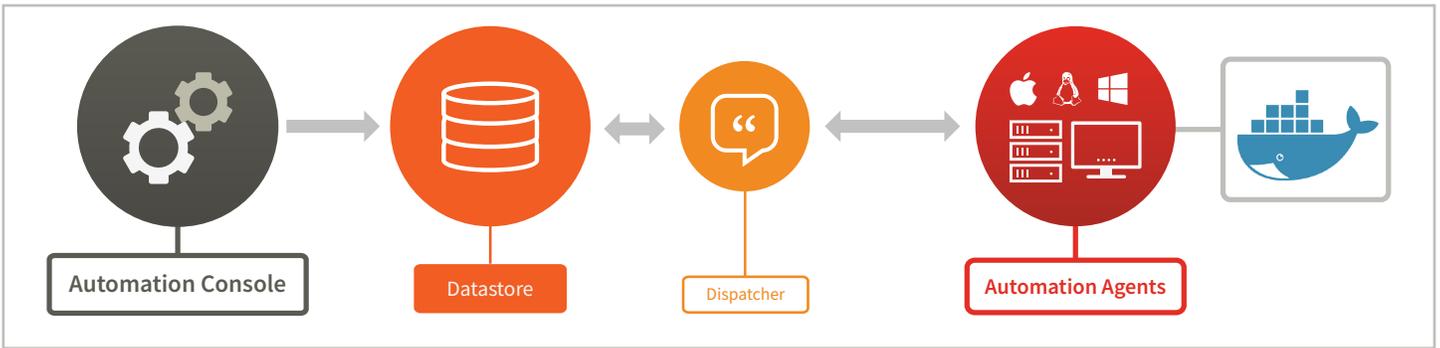
MANAGE APP RESOURCES

RES ONE Automation can take managing access to the next level by allowing the user to request additional resources (on-premises or cloud) and then assign the container hosting the App image. The user is then presented with an easy-to-use portal to make requests, such as increasing CPU or memory resources for use with their app. With RES, it is easy to manage settings for Docker images or integrate with Docker Swarm/ Machine or Cluster Management tools such as Mesos or Platform Cluster Manager. This ensures that users can only access or make changes to specific containers.

THE RES + DOCKER PARTNERSHIP

RES is an official Docker ecosystem technology partner helping to extend the value and use of the Docker platforms.

RES AND DOCKER BRING BUSINESS VALUE

- Enhanced User Experience — personalize Docker deployments through context-aware workspaces across hybrid environments.

- Faster Deployment — automate the deployment processes through on-demand provisioning of apps contained in Docker to end users.

- Greater Security — centrally manage a scalable number of context-aware workspaces that automatically adapts access based on each worker's context (location, device, role, time of day, etc.)

MAXIMIZE YOUR INVESTMENT

RES offers many solutions that support and maximize the value of Docker. Get maximized value from the RES ONE Enterprise, or solutions you can leverage independently:

RES ONE Workspace	Centrally manage a scalable number of context-aware workspaces that automatically adapts access based on each worker's context (location, device, role, time of day, etc.)
RES ONE Automation	Automate tasks beyond the traditional command line to deliver any set of changes to IT environments, whether hosted, virtual, or web-based. RES can automate the provisioning of IT resources from a single console and runbooks can be used to create and manage the environment for distributed apps. The in-host daemon communicates with the Docker API to execute commands to ship and run containers. With RES, you have a framework for building Docker images, creating containers, connecting dependent resources and running them all in development and production environments.
RES ONE Identity Director	Allows users to request and customize containers in a Docker environment with an easy-to-use and customizable self-service portal. The requests can be fulfilled immediately or follow a workflow approval process.

ABOUT RES

RES creates, automates and secures digital workspaces to improve the experience and productivity of the workforce while lowering IT costs. RES takes a people-centric approach to making technology access secure, even in complex multi-device/multi-location scenarios, across physical, virtual and cloud environments. RES boasts numerous patented technologies, fast time to value, and superior customer support for more than 2,500 companies around the world. For more information, visit www.res.com, contact your preferred RES partner, or follow updates on Twitter @ressoftware.

RES®