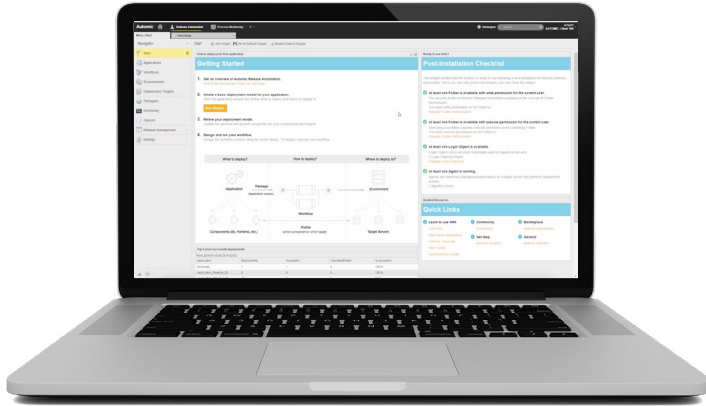


The Docker Package

Continuous Delivery from Automic



Key Benefits

- Ease the efforts of developers, application engineers, and system administrators to create, deploy, and run applications by automatically utilizing Docker containers as part of deployment workflows.
- Ship code and container as one coherent deployable package that can be automatically promoted from environment to environment.
- Standardize a Docker best practice for application deployments and avoid container sprawl.
- Know which container is where – auto provision and deprovision containers.

Orchestrate all the moving parts – people, process and technology – involved in managing and deploying to Docker containers

Business Challenge

Application development and operations teams are being forced to change their working practices to facilitate growth and innovation while maintaining compliance. Unified development and operations teams are solely focused on delivering more application releases faster while protecting process integrity and preventing environment sprawl.

At the center of all deployments in non-PROD environments is the need for cheap and quick application-ready environments where code can be developed, prototyped and tested. Docker aims to address this. However, Docker still requires someone to build containers, run containers, assign containers and stop containers. Time spent by developers doing non-coding tasks can cause missed deadlines, while time spent by operations performing these tasks reduces required prep time for production deployments, which can lead to production failures.

The Automic Solution

The Docker Package from Automic Release Automation allows you to build visual workflows to fully automate all of your Docker container builds, provisionings, configurations, and most administration tasks – giving back a lot of valuable time to developers and/or administrators, but also assuring that fewer errors occur.

How It Works

The Automic Docker Package combines an integrated application packaging system, smart deployment models and out-of-the-box actions for common deployment tasks with robust workflow design and high volume execution capability. The Automic Docker Package allows users to build, provision, configure and manage Docker containers as part of an automated application deployment process. Optimized for enterprise environments, the Automic Docker Package accelerates deployments to Docker containers, ensures the quality of container deployments, and minimizes management overhead to help both development and operations enable business growth. Several key capabilities make the Automic Docker Package the most advanced and complete solution on the market.

Package Manager

A unique Package Manager lets users manually or automatically create user application artifact packages that include Docker images as part of the build process, which are ready to deploy as a single unit. Packages are promoted across environments and tracked by the system, so users always know which versions have been deployed where.

Workflows

A workflow editor provides an integrated browser-based canvas with drag-and-drop actions and flow control features. The workflow editor provides workflow versioning and user access management, supporting hundreds of developers in parallel with application and component centric views.

Out-Of-the-Box Docker Actions

Workflows are assembled from a library of built-in actions, which replace manual deployments and scripts. The library consists of hundreds of actions for generic deployment tasks, with specific Docker actions that allow you to:

- Search Image
- Inspect Image
- List Images
- Create Image
- Configure Connection
- Create Container
- Start Container
- Change Container State
- List Containers
- Remove Container
- Inspect Container
- Export Container
- Exec Create
- Exec Start
- Remove Image
- Build Image from Dockerfile
- Get Image history from Docker
- Import Container

Deployment Models

The Automic Docker Package has a unique deployment model that is integrated into the environment and provides simplicity and consistency for creating deployment workflows. The model is based on polymorphic, inherited and extensible properties that are manageable at every level and stage, adhering to role-based access control. Workflows automatically adapt to current model properties, which make them completely generic and easy to reuse across environments. If Docker is not used in production, Automic's deployment model will intelligently deploy the application artifacts used in Docker containers to non-Docker, production grade hosting containers or servers.

Automatic Rollback

Rollback assures that an application, specifically in production, is never left in an inconsistent or inoperative state should anything fail to deploy correctly. With the Automic Docker Package, each out-of-the-box action comes with built in rollbacks.

Snapshot and Compare

A unique 'Snapshot' mechanism lets users compare configurations and file contents between Docker containers. This helps to reduce the Mean Time to Resolution (MTTR) in resolving configuration discrepancies or application behavior between different Docker environments such as between development and QA.

Part of a Unified Business Automation Platform

Automic's Business Automation Platform allows companies to take a systematic approach to automation by incrementally replacing multiple ad hoc tools with a centralized platform – allowing businesses to scale their investment across people, process and technology. The platform executes core business, application and infrastructure processes – whether on-premise, in the cloud or for the hybrid in between – providing visibility and control across the entire business.

Why Choose Automic?

Automic Release Automation enables the modern enterprise to drive agility and speed for upgrades of core business apps, and enhances the stability and reliability for production releases of front-office digital apps. Regardless of app complexity or environment location (on-prem, public/private/hybrid cloud, Docker, etc.) deployment frequency and safety will increase, and the DevOps tool chain will be coherently orchestrated. With Automic Release Automation organizations can specifically:

- Follow Automic's practical blueprint approach to continuous delivery across all applications.
- Visualize the deployment pipeline of all applications.
- Deploy to public, private, hybrid cloud or container environments from a multi-tenant platform.
- Harness the power of the Automic Marketplace to seamlessly download and use community developed actions, processes or extensions that have been published.
- Participate in Automic's DevOps maturity assessment. Enterprises can benchmark themselves against the Automic standard, or against their peers, their industry, their region or globally.

For more information or product demonstration please visit www.automic.com