

Connect

(self-service) Secure Application & Developer onboarding on OCP

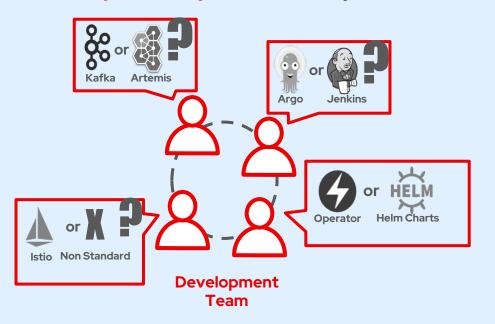


Patrik Plachý Senior Solution Architect

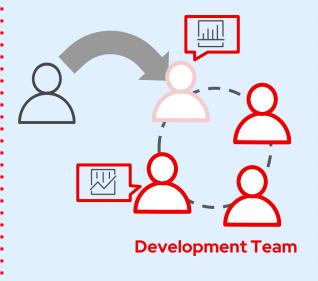


Development teams are under pressure

Analysis Paralysis - too many choices



Onboarding Chaos

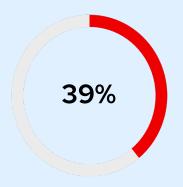


Lack of Standardization





Impact of cognitive overload on productivity



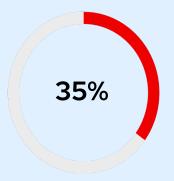
Increasing workload /
demand from other
teams leads to increased
overhead.



More than threequarters of organizations say the **cognitive load is high enough to negatively impact productivity.**¹



Adapting to the pressures of digital transformation is third biggest challenge.¹



Learning skills to adapt to new technologies and approaches.¹



Securing the Software Supply Chain - Why?

Software supply chain attacks: a matter of when, not if

Ransom paid but a mere fraction to the overall downtime and recovery costs of a data breach

742%

average annual increase in software supply chain attacks over the past 3 years ¹

45%

of organizations worldwide will experience supply chain attacks by 2025 ²



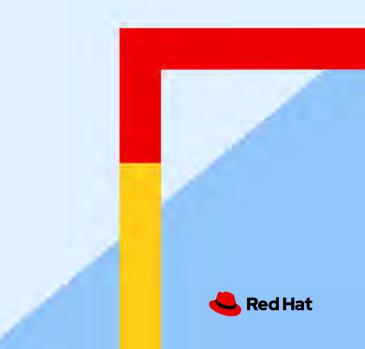
1 in 5

data breaches are due to a software supply chain compromise ³ 71%

YoY increase in cost of average ransom payment ⁴



Architecture



Component overview



Red Hat OpenShift GitOps



Red Hat OpenShift Pipeline

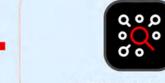


OpenShift Data Foundation



Red Hat Quay









Red Hat Developer Hub Red Hat Trusted Profile Analyzer



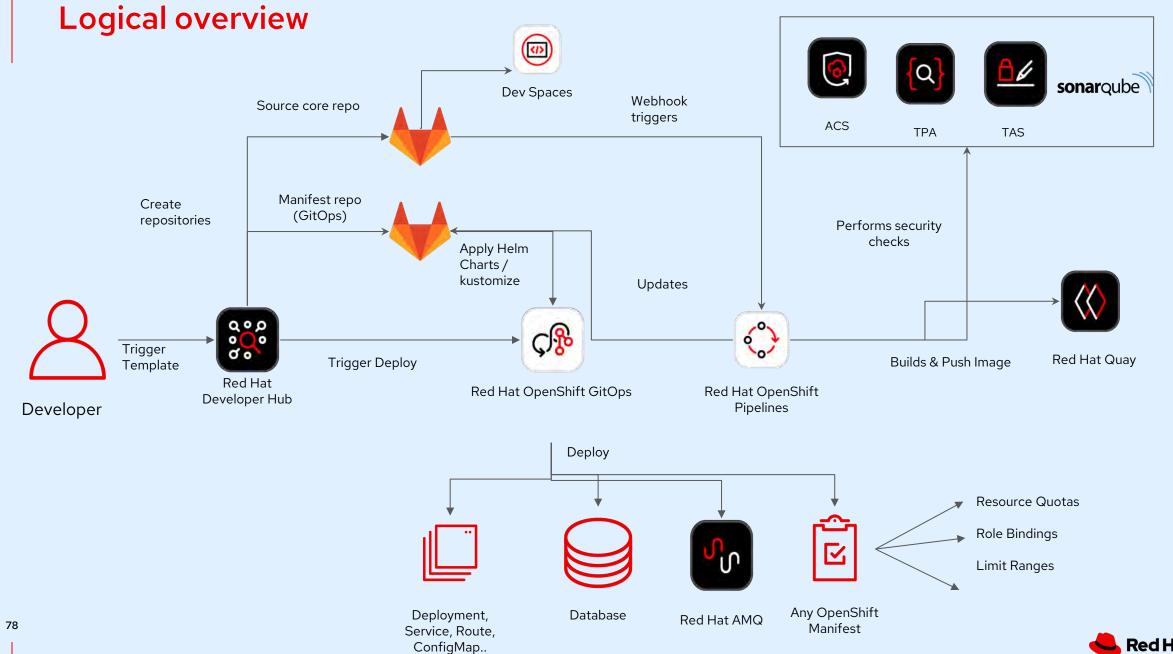
Red Hat Trusted Application Pipeline





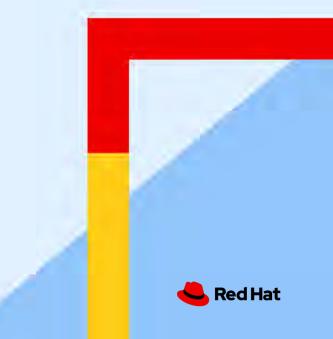






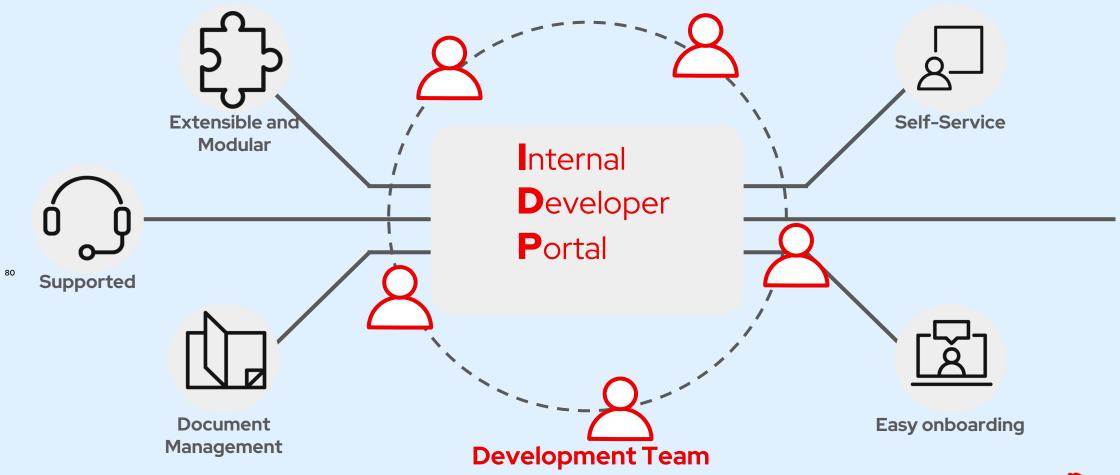


Components



Challenges: Solution: Internal Developer Portal

Requirements to boost the development team productivity





What is CNCF Backstage?: The 5 pieces



Tech DocsEasily create, maintain, and find

technical documentation using a "docs as code" approach



Centralized
Software Catalog

Keep track of application ownership and metadata for all the software in your organization



Extend functionality and provide customization



Development Team



Quickly spin up new projects and standardize your tooling with your organization's best practices



Find the right information across your entire Backstage ecosystem



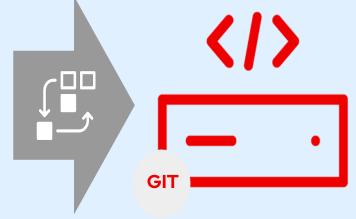
What is CNCF Backstage?: Software Templates

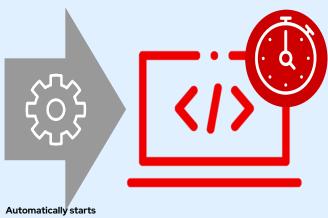
Simplified Onboarding with Software Templates

Quickly spin up new projects and standardize your tooling with your

organization's best practices







Development Team User fills out a form Best Practices

Leverage existing practices and use company quidelines to automate the most common tasks

Capture all the necessary data related to this task and automatically generate the desired outcome

Automatically create a new Git repository

Everything goes to a Git Repository so development can start straight away

Everything done in a matter of minutes

Code and config are automatically built following all your organization's guidelines

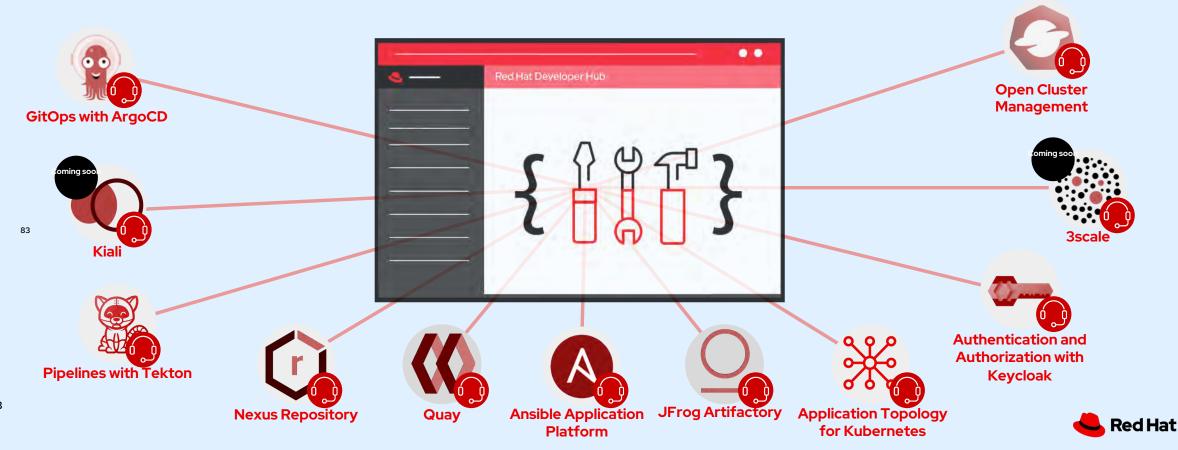


Red Hat Value Added: Support for Red Hat Plug-Ins



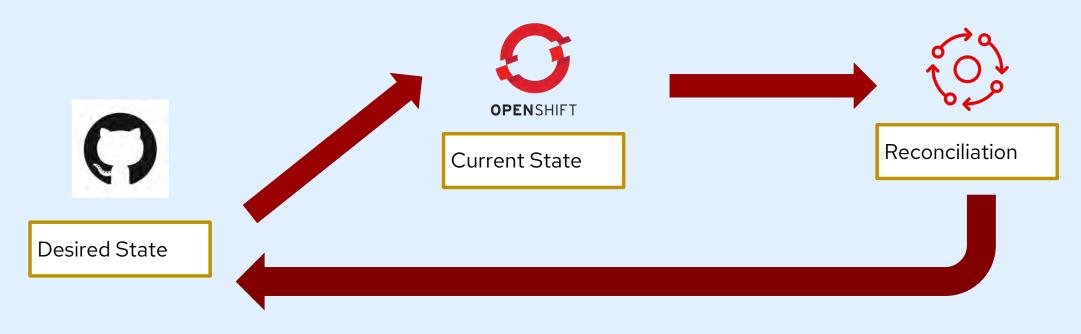
Supported for Red Hat Plug-ins

Red Hat is continuously adding new Red Hat plug-ins to Developer Hub



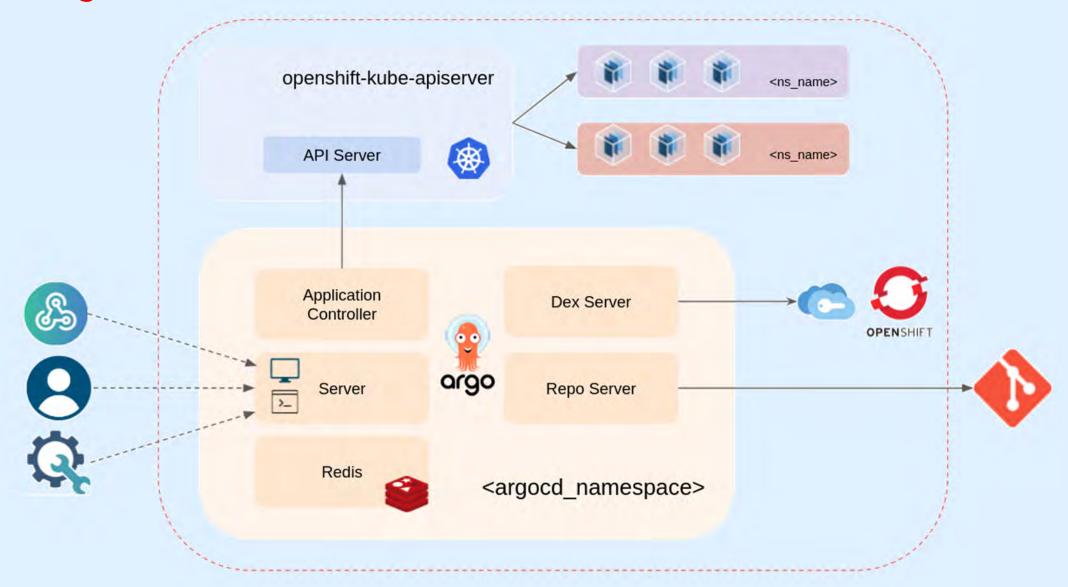
What's GitOps?

GitOps is a set of practices that leverages Git workflows to manage infrastructure and application configurations. By using Git repositories as the source of truth, it allows the DevOps team to store the entire state of the cluster configuration in Git so that the trail of changes are visible and auditable.





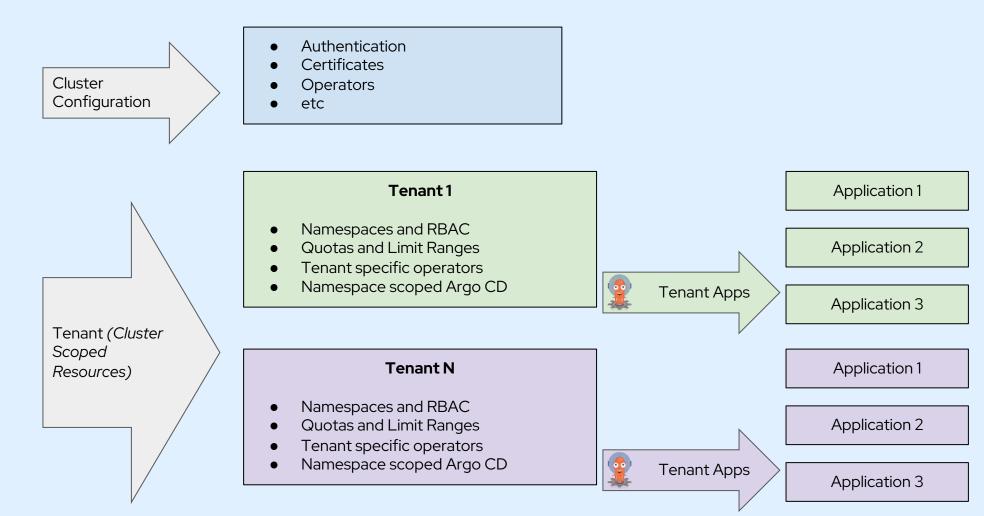
Argo CD Architecture





Argo CD Multi-Tenancy

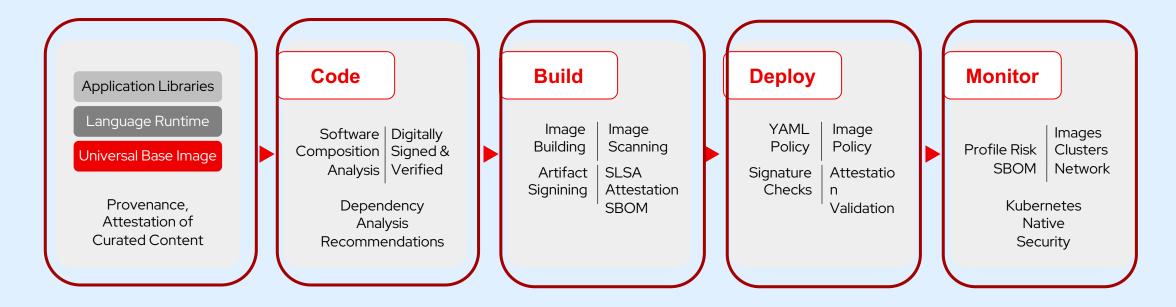
GitOps In A Multi-Tenant Cluster





Cluster-scoped

Red Hat Trusted Software Supply Chain



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Thank you



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