

ESG BUSINESS JUSTIFICATION BRIEF

AWS Marketplace Series: Quali: How to Use Infrastructure-as-Code for Automated Self-Service AWS Environments

Author: Jack Poller, Senior Analyst

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Application Development Challenges

ESG research has uncovered that 86% of organizations surveyed are facing at least some pressure to accelerate development and launch new products and services faster.¹ As these organizations adopt DevOps methodologies to help in delivering cloud-native applications faster, the orchestration and automation of these methodologies can be difficult to scale, especially when distributed development teams are working on multiple applications simultaneously. Automating development activities to speed up application delivery by integrating tools in-house can consume more time than DevOps can afford to spend. Organizations also face challenges in controlling cloud-related costs, maintaining security throughout development, and meeting compliance requirements. As a matter of fact, when ESG research respondents were asked which business initiatives would drive the most technology spending in their organizations over the next 12 months:²



40%

of organizations cited strengthening cybersecurity.



31%

of organizations cited cost reduction.



27%

of organizations cited improving internal collaboration activities.

Quali CloudShell Colony

Quali CloudShell Colony is a SaaS infrastructure automation platform that supports DevOps teams to automatically deploy and decommission application environments, from development through testing to production release, on Amazon Web Services (AWS) while improving efficiency and governance. Quali CloudShell Colony's built-in orchestration helps DevOps to quickly provision application-centric environments that integrate with the AWS infrastructure, such as virtual machines, containers, and AWS networking and security services. These application environments can be launched on-demand from existing Continuous Integration (CI)/Continuous Delivery (CD) pipeline tools for complete DevOps automation. They can also be deployed and scaled as needed with minimal time and resources, helping organizations meet increasing time-to-market demands.

With Quali CloudShell Colony, organizations can:



Design reusable environment blueprints using existing infrastructure-as-code (IaC) scripts, source-controlled YAML files, or user-friendly UI so that developers save time and resources to deploy and test their applications.



Scale DevOps processes across multiple teams while helping organizations coordinate and maintain consistency across multiple application development teams, quality assurance (QA), and IT Ops.



Maintain security and compliance in their application environments with features such as role-based access control (RBAC), single-sign-on (SSO), multi-tenancy, secret management, and audit trails without sacrificing time to production release.



Control AWS-related costs and justify spending by tying expenses back to the business.

Why AWS Marketplace?



Choose from thousands of solutions.



Pay only for what you use.



Combine Quali's DevOps tools with AWS services to improve and scale DevOps efficiently on AWS.

AWS Marketplace is a digital catalog with thousands of software listings from independent software vendors that make it easy to test, buy, and deploy software that runs on AWS. Solutions are available through a wide variety of delivery methods.

Other benefits include:

- Ready-to-run software.
- Searchable catalog.
- Detailed usage tracking.
- Free trials.
- Simple procurement, no provisioning required.

ESG Business Justification

- Quali CloudShell Colony helps teams with different expertise levels to automate the provisioning of application environments based on pre-defined templates. The platform ensures infrastructure-as-code best practices and seamless integration with git repositories.
- Quali CloudShell Colony reduces risks to release to production as standardized application environments can be used consistently from development and testing to staging and production.
- Quali CloudShell Colony integrates natively with popular DevOps tools such as Jenkins, TeamCity, CircleCI, GitHub, and Terraform. Organizations do not need to spend unnecessary time and resources in integrating multiple tools in-house.
- With Quali CloudShell Colony, DevOps teams can avoid over-spending through the use of auto-tagging and auto-decommissioning of AWS resources. The cost dashboard connects cloud-related costs back to the business, estimates costs per application environment, and provides full visibility with analytics to optimize AWS spend.

Why Quali CloudShell Colony?



Automate and orchestrate the provisioning and use of tools and AWS resources required for application development.



Maintain security and compliance without sacrificing time to market.



Increase developer productivity without incurring additional operational expenses.

The Bigger Truth

The reasons for the adoption of DevOps methodologies is clear—lower costs, greater flexibility and efficiency, and increased business agility. With applications expected to be developed at an accelerated pace, organizations require a solution that will help maximize their DevOps efforts to meet time-to-market demands without sacrificing security and compliance and increasing costs.

Quali CloudShell Colony helps organizations automate and manage the delivery of complex application-centric environments on AWS to develop and deliver applications without the need to integrate these elements via homegrown efforts. The business justification for an AWS Marketplace Quali investment is clear: deploying Quali Cloudshell Colony facilitates the setup and management of DevOps environments with greater simplicity, while increasing efficiency and accelerating application development.

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