

ESG BUSINESS JUSTIFICATION BRIEF

AWS Marketplace Series: Stackery: How to Expedite Design and Development of Serverless Applications on AWS

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Serverless Application Functions - Popularity and Challenges

Serverless function usage in application development has passed the tipping point. ESG research has confirmed that 97% of software development teams are using, evaluating, or planning to use serverless functions in their application code.¹ In terms of breadth of usage, more than one-third expect that serverless will be the exclusive (23%) or predominant (11%) structural composition of all cloud-native applications over the next 12-24 months.



35%
Use serverless extensively



18%
Use serverless on a limited basis



28%
Evaluating serverless use



16%
Plan to use serverless in 12-24 months

However, many organizations are struggling to develop and deploy serverless applications quickly due to security, complexity, and/or compliance issues. When asked about cloud application stack vulnerability challenges, ESG research respondents reported that serverless functions (29%) were the most susceptible to compromise. Almost two-thirds (63%) cited API vulnerabilities as their leading security concern regarding serverless functions. So, how can businesses best justify their investments in tools that help streamline the design, development, and delivery of applications with serverless functions?

Design, Develop, and Deliver Serverless Functions on AWS

Stackery, a serverless application development platform for Amazon Web Services (AWS), offers teams a key resource designed to help them realize the promise of serverless. By automating otherwise complex development processes, Stackery enables organizations to leverage the potential of AWS Lambda development with minimal management overhead.

Stackery's goal is to empower your organization to effectively manage the entire serverless application pipeline by:



Empowering teams to architect and iterate the structure of applications leveraging Virtual Whiteboard and a palette of dozens of AWS resources. Creating application infrastructure utilizing automated processing to generate all AWS CloudFormation and Serverless Application Model YAML files.



Driving the automated creation of precise, consistent IAM roles and environment data for the overall services architecture and resources. This ensures a sound security regime that is easy to maintain and carried forward into the development and delivery pipeline.



Utilizing CloudLocal functionality to automate connectivity and permissions between laptop functions and AWS Cloud resources, including critical IAM configurations, ensuring rapid and accurate development iteration and debugging for any AWS Lambda function in any language or framework.



Keeping defined environments in sync with AWS to segment resources, parameters, and secrets. Organizations can build an optimized structure for the logical environments that define the delivery pipeline and the team roles related to the validation and deployment processes.



Automating CI/CD for your application and ensuring that it scales as development teams grow and the code base expands. This enables teams to engage in the mission of core application creation instead of burning cycles on management of underlying infrastructure and process.

¹Source: ESG Research Report, *Leveraging DevSecOps to Secure Cloud-native Applications*, March 2020. All ESG research references were taken from this research report.

Why AWS Marketplace?



Choose from thousands of solutions.



Pay only for what you use.



Scale AWS Lambda development easily with Stackery.

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

- AWS Marketplace brings one-click deployment to enterprise-class software engineering. Developers, site reliability engineers, and DevOps engineers can immediately begin designing and developing AWS Lambda functions in their applications and deliver applications promptly with Stackery on AWS Marketplace.
- ESG observed how Stackery enables technical teams to design and develop application stacks, incorporate AWS Lambda functions, and automate CI/CD and delivery to named environments.
- Stackery automatically instruments your application stack resources and synchronizes AWS development environments with local counterparts to help troubleshoot issues and maximize developer productivity as you scale your serverless application stack and engineering team environment on AWS.

Why Stackery?



Build better software experiences for applications that rely on AWS Lambda.



Build, test, and deploy serverless applications faster.



Find and fix problems faster with a real-time view of serverless functions and associated services utilizing local copies of AWS sandbox environments.

The Bigger Truth

Stackery serverless application platform helps organizations design, develop, and deliver application stacks that utilize AWS Lambda functions. The integration with AWS enables teams to create applications from front-end to back-end with AWS managed services such as AWS Lambda, Amazon Aurora Serverless, Amazon API Gateway, and AWS AppSync—whether that means virtual whiteboarding, developing and debugging Lambda functions, building automated CI/CD workflows, or creating ephemeral sandbox environments for vulnerability scanning, unit testing, integration testing, and system testing.

ESG believes the business justification for a Stackery investment via AWS Marketplace is clear: AWS Marketplace gets you to the cloud quickly and cost-efficiently with preconfigured solutions that expand your capabilities without adding effort or risk. Building and delivering your serverless application stacks with Stackery enables organizations to move fast, especially as they take on new projects, add team members, and scale best practices. From design and development through the final push to production, Stackery automation helps teams adhere to their organization's AWS Well-Architected and security practices without slowing down.

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