



The Art of Performance Testing, Building Reliable Applications & AWS Solutions

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Reliability vs Resiliency



Performance Testing



Types of Performance Testing



Load

System performance under expected usage



Stress

Evaluate system behavior under extreme, beyond-normal load conditions



Endurance

Sustained load testing to identify long-term issues.



Spike

Rapidly increasing or decreasing load to assess resilience and behavior



Scalability

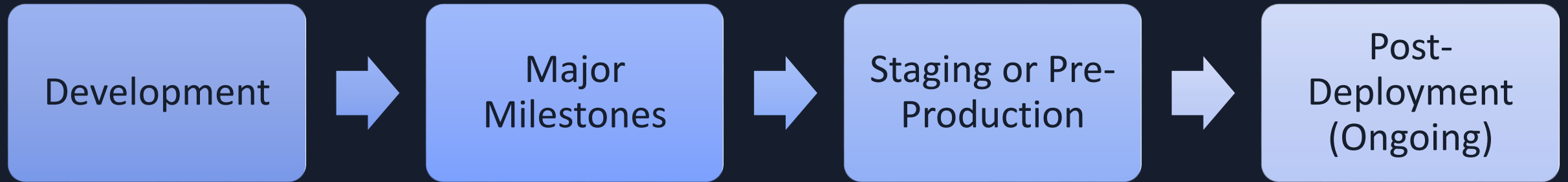
Measuring performance under growing user/transaction volume



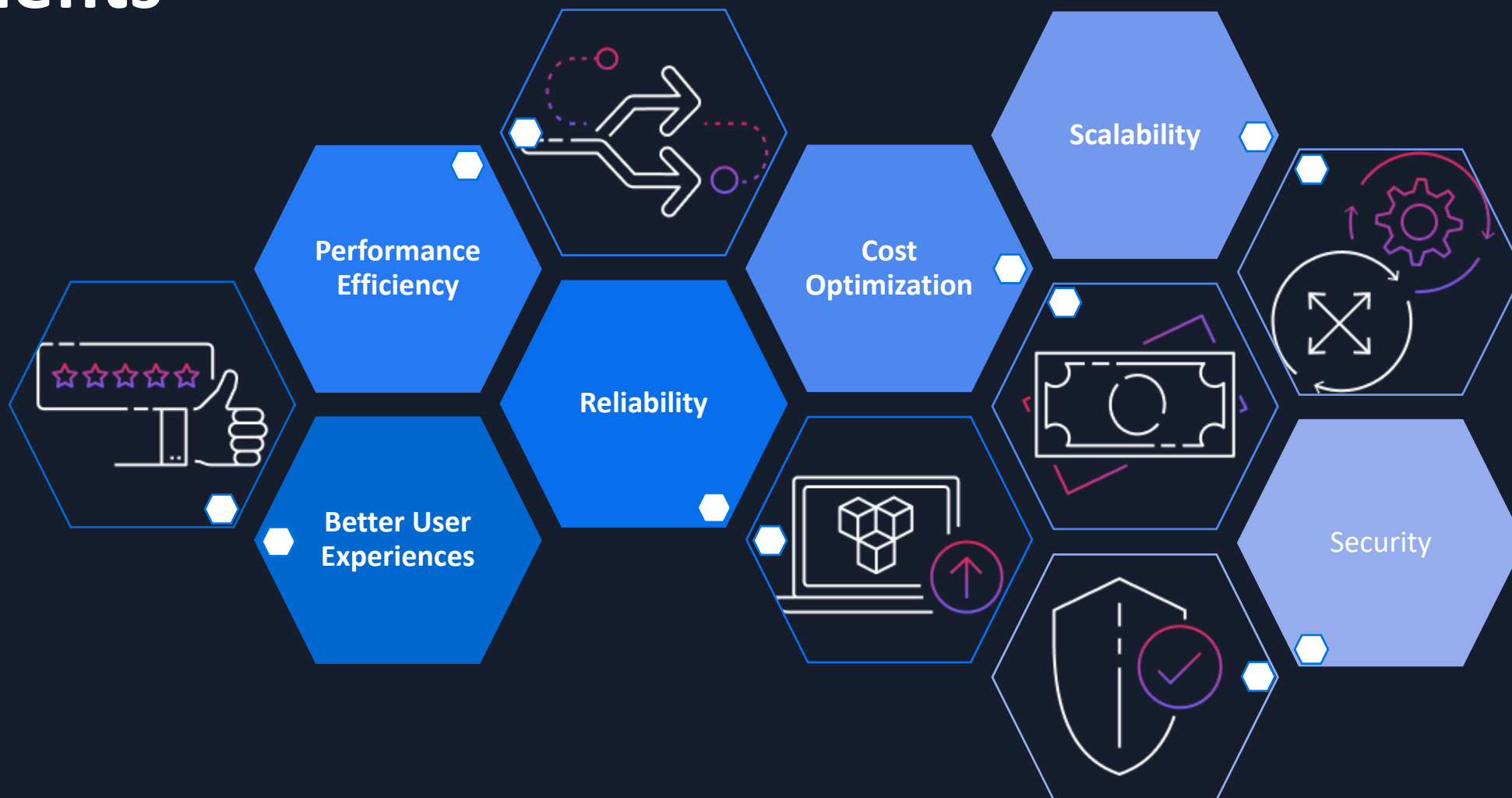
Volume *

Evaluates the impact of handling large amounts of data

When




Benefits



How ?

Distributed Load Testing

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Distributed Load Testing on AWS

Automate software application testing at scale and at load to identify potential performance issues

View implementation guide

Free Amazon Q Training | Meet your generative AI-powered assistant, and learn how it can boost your productivity. Try the free training »

Overview

Distributed Load Testing on AWS automates software applications testing at scale and at load to help you identify potential performance issues before application release. This AWS Solution creates and simulates thousands of connected users, generating transactional records at a consistent pace without the need to provision servers. This solution also allows you to run tests across multiple AWS Regions.

Benefits

Test load capabilities using containers

Test the load capabilities of your software using independent Amazon Elastic Container Service (Amazon ECS) on AWS Fargate containers.

Customize application tests

Customize your application tests by creating custom JMeter scripts.

Automate load tests

Schedule load tests to automatically begin either at a specified date or on recurring dates.

View live test data

View live data for a running test using this solution's web console.

Use cases for this AWS Solution

Application Modernization

Small & Medium Business

Application Testing

New to AWS

Container Orchestration

Application Development & DevOps

More...

About this deployment


Version: 3.2.9

Released: 6/2024

Author: AWS

Est. deployment time: 15 mins

Estimated cost: [See details](#)



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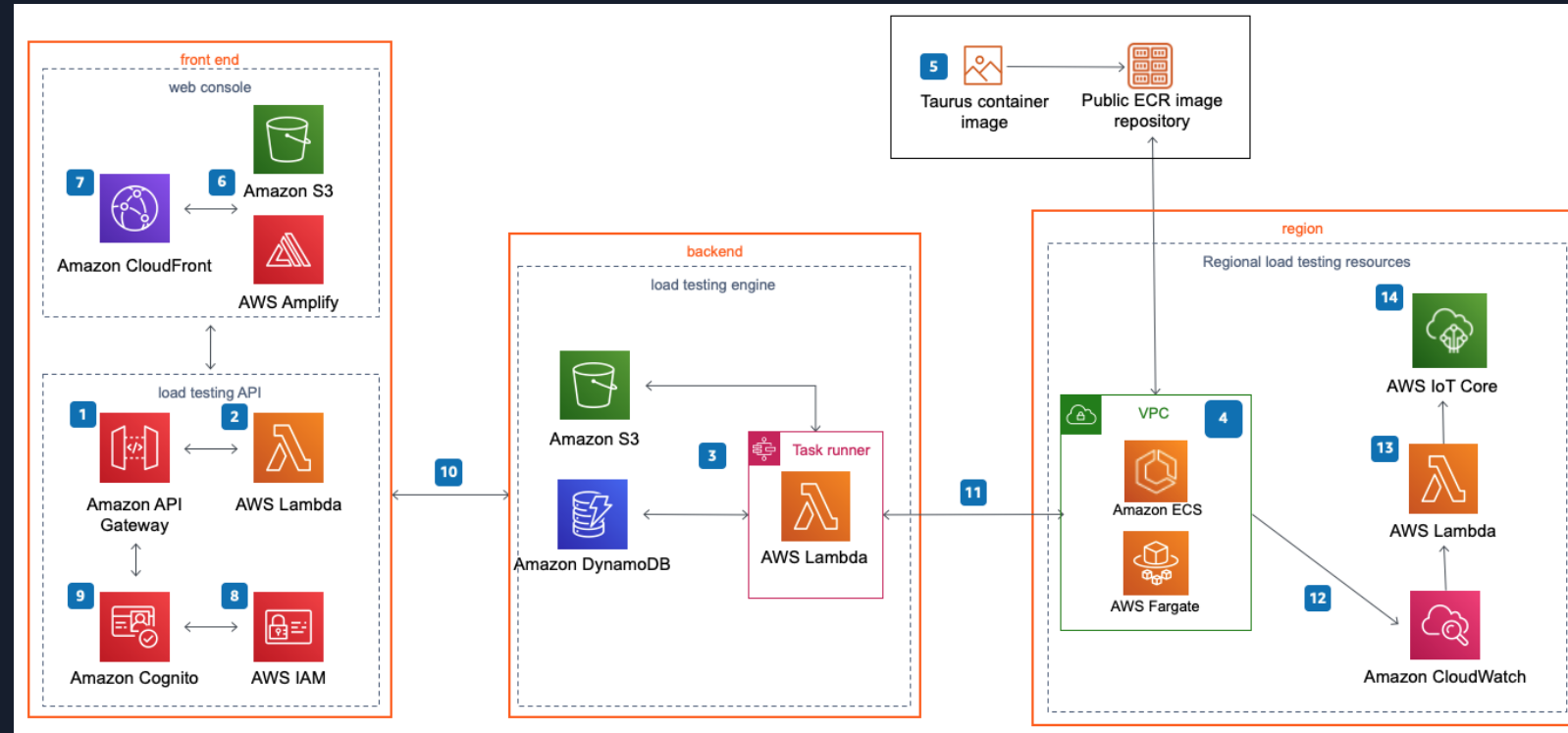
Distributed Load Testing on AWS

KEY FEATURES

- Automate Load Tests
- Load Simulation with Serverless Computing
- Customize Application Tests
- Schedule for Seasonal Spikes
- Comprehensive monitoring and reporting for performance insights

KEY BENEFITS

- Scalable and on-demand load testing without infrastructure management
- Mitigate performance issues in advance of events
- Generate simulated transactional records without disruption



Deployment Model

100%

Open Source

Single
Tenant

Fully
Supported
by AWS

\$

Pay for what you use

Success Stories

April 23, 2024

SBI Securities Completes Migration of Its Online Trading System to AWS Handling Over 2 Trillion JPY in Daily Stock Trading Transactions

SBI Securities is also using AWS Distributed Load Testing to validate that its infrastructure can scale to meet spikes in customer demand by mimicking sudden surges in traffic.

Source: <https://press.aboutamazon.com/aws/2024/4/sbi-securities-completes-migration-of-its-online-trading-system-to-aws-handling-over-2-trillion-jpy-in-daily-stock-trading-transactions>

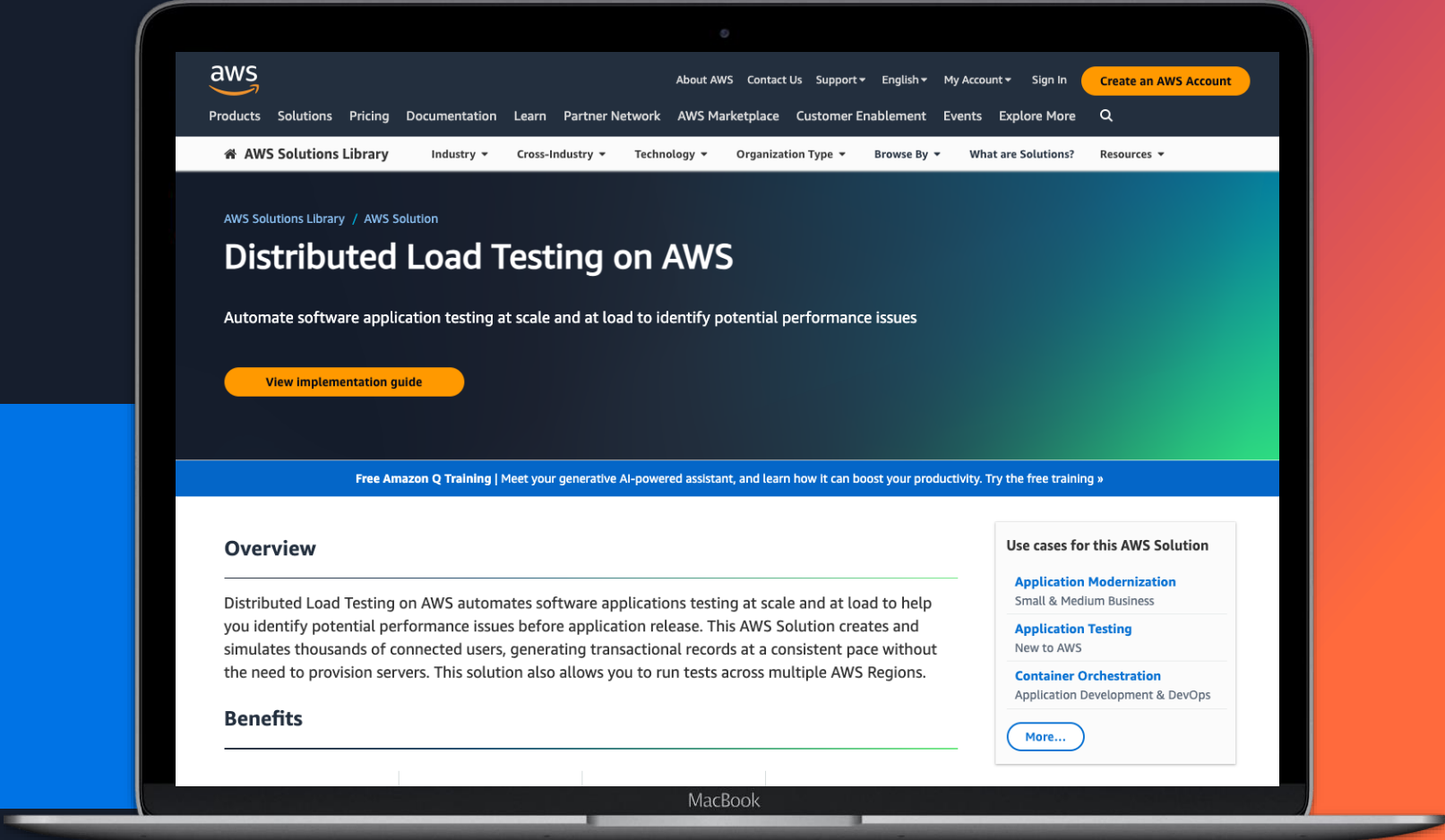


Get started!



Distributed Load Testing on AWS

<https://a.co/arUKzr9>



Demo

Thank you!

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