TECHNICAL CASE STUDY

Landing Pad in AWS

Customer Profile

Quality Punch Inc. provides award-winning quick-turn digital rendering for branded clothing and accessories. A dozen web applications accept orders worldwide for fulfillment in Southeast Asia and global distribution.

What was the challenge?

Quality Punch required a suitably architected and secure configuration of their AWS account as a "landing pad" ready to receive web application migrations.

Requirements

Needs Assessment	**Cloud Architecture Development**	**Auditable Security**
Build plans for cloud governance that meet the needs of the business	An architecture that balances performance against cost, without compromising on security best practices	Auditable and automated AWS account configuration, not subject to misunderstandings or fat-finger mistakes

Solution at a Glance

Qalius and the Quality Punch team decided to configure one AWS account hosting a three-tier, two Availability Zone architecture. A second AWS account facilitates delivery of ongoing support from Qalius by centralizing patch management and intrusion detection. The whole solution is deployed with infrastructure-as-code techniques.

Use Cases

- Preparation of AWS accounts before migrating first workloads

- Upgrading proof-of-concept (POC) environments prior to production use

- Formalizing deployment processes to meet compliance or security needs

Solution

Qalius implemented a three-tier web application architecture across two Amazon Availability Zones.

AWS Account Configuration

Dev / Test and Production workloads go in a single AWS Account, with two architectures according to application availability requirements. A second AWS Account is used for system administration and intrusion detection with AWS Systems Manager and AWS Guard Duty.

Infrastructure-as-Code

Qalius used custom PHP code to implement the networking, compute, storage, and security services. The PHP code provides an auditable record of the exact configuration deployed to production and it eliminates mistakes caused loss of attention during console deployments.

OS and Application Hardening

Linux operating systems are hardened with script that implements Center for Internet Security (CIS) standards. Apache is hardened to CIS standards and optimized by Qalius to achieve > 2x performance improvement.
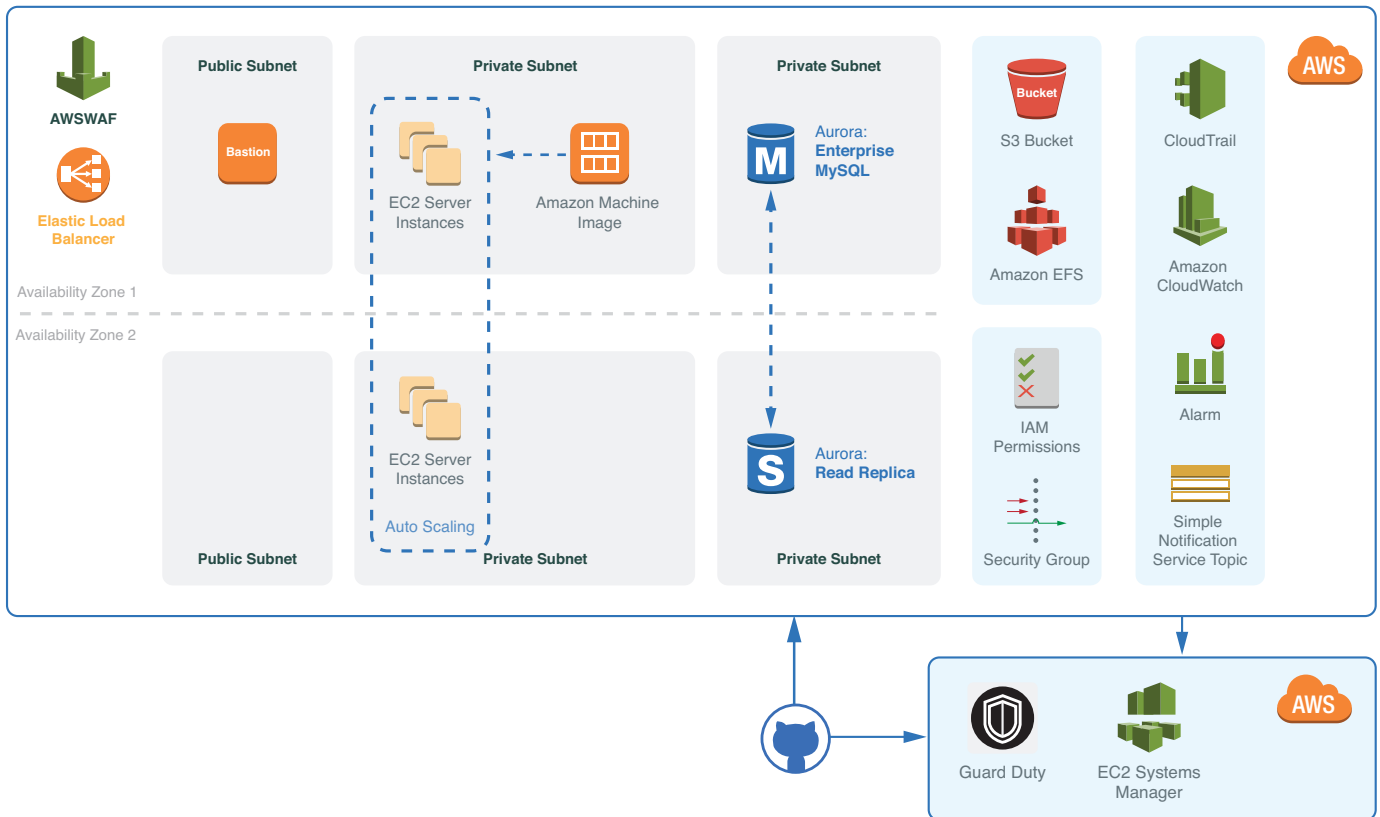
> "I call Qalius my Canada Pros because they give me the answers I need before I even know what to ask."
>
> Qasim Habib
> CEO, Quality Punch Inc.

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Advanced
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Solution Provider

At Qalius we are developers specializing in custom web applications designed for the AWS platform. AWS speeds up software development by providing a toolkit of platform services that offer best-in-class functionality and security.