



APEXON AWS CLOUD ENGINEERING SERVICES:

# AWS WELL-ARCHITECTED REVIEW

Get the most from your AWS environment



## IS YOUR AWS ENVIRONMENT WELL-ARCHITECTED?

AWS Well-Architected Review (WAR) is a framework designed to provide high-level best practices and guidance to optimize the way your organization builds and maintains your applications in the AWS cloud.

It is based on five pillars of success which provide a consistent method for evaluating and remediating systems and ensuring you are getting the most from your AWS cloud environment.



### OPERATIONAL EXCELLENCE

Run and monitor systems efficiently.

Continually improve supporting processes and procedures.



### PERFORMANCE EFFICIENCY

Use resources efficiently to meet system requirements.

Maintain efficiency as demand changes and technologies evolve.



### COST OPTIMIZATION

Avoid unnecessary costs.

Eliminate suboptimal resources.



### SECURITY

Protect information, systems, assets.

Apply risk assessments and mitigation strategies.



### RELIABILITY

Automate system recovery from infrastructure / service failures.

Dynamically add computing resources on demand.

Quickly mitigate disruptions, e.g., misconfigurations or transient network issues.

# THE VALUE OF THE AWS WELL-ARCHITECTED REVIEW

The review is an important checkup on your AWS cloud environment that can deliver a number of important advantages:



**Identifying pressing issues and prioritizing remediation roadmaps**



**Keeping you current on the latest AWS services**



**Reducing cloud infrastructure and operating costs**



**Ensuring your AWS environment is delivering maximum performance and efficiency**



**Minimizing system failures and enhancing system security and compliance**

The Well-Architected Review will surface new ideas for how your AWS cloud environment can create new opportunities for the business, e.g., new forms of customer engagement, faster product cycle time, increased workflow efficiency, and more.

# THE APEXON AWS WELL-ARCHITECTED REVIEW FRAMEWORK

Apexon is an accredited AWS Well-Architected Partner. We have developed a proven 10-step process for conducting effective Well-Architected Reviews with AWS customers.

We utilize the framework and tools to deliver a comprehensive review of an individual workload—defined as a set of machines, instances, or servers that together enabled the delivery of a service to internal/external users, e.g., business application, e-commerce website, or web application.

The result of this review is a detailed analysis of the workload performance measured against the five pillars of success outlined above: Operational Excellence, Security, Reliability, Performance Efficiency, and Cost Optimization. It will also provide a mitigation plan for areas that do not meet Framework recommendations.



## STEP 1

**Stakeholder Interviews** to understand business requirements



## STEP 2

**Self-Assessment** using AWS architectural tool to gather all relevant information



## STEP 3

**Architectural Review** to understand environment and dependencies



## STEP 4

**WAR Pillar Prioritization** to focus resources where needed



## STEP 5

**Current Workload State Assessment** to understand requirements



## STEP 6

**Standards Review** to ensure guidelines are being met



## STEP 7

**Risk Identification** to assess potential impact on the business



## STEP 8

**Architectural Tool Notes** to inventory services used



## STEP 9

**Due Diligence** leveraging AWS tools, e.g., nOps, CloudConformity

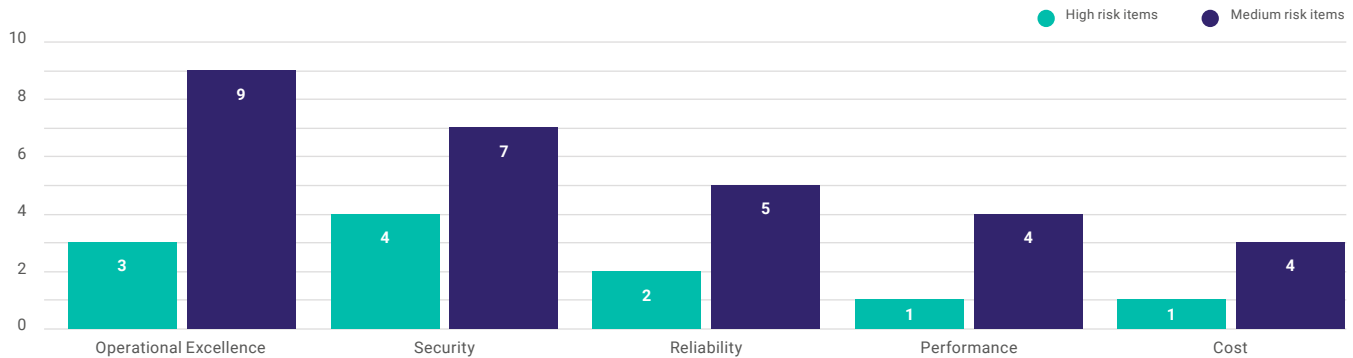


## STEP 10

**Statement of Work (SOW)** with Short (0-1 month), Medium (1-3 months), and Long-Term (3-6 months) improvement plans / deliverables

# WELL-ARCHITECTED REVIEW PROGRAM - SAMPLE REPORT

The total time required for the Well-Architected Review can vary from workload to workload, but average time from start to completion as outlined above is five (5) days.



## SAMPLE TASK PRIORITIZATION

| Remediation Ref | WA_ID | Remediation Details                                                      | Item Ref   | Work Item Detail                                                           |
|-----------------|-------|--------------------------------------------------------------------------|------------|----------------------------------------------------------------------------|
| 001             | OPS2  | Enable CloudFront logging across all regions                             | 001_ANO    | Well-Architected Program - Resource Onboard and preparation                |
| 006             | OPS2  | Enable S3 Bucket logging for all buckets                                 | 001_ANO    | Well-Architected - Perform exercise report generation                      |
| 007             | OPS2  | Enable VPC Flow logs for all VPCs in regions                             | 001_SOW    | Well-Architected SOW preparation and presentation                          |
| 013             | SEC1  | Ensure CloudTrail Bucket MFA delete is enabled for all regions           | 001_PS_PRI | Well-Architected professional services for completion of prioritised tasks |
| 015             | SEC1  | Ensure that all access keys are rotated within 45 days                   |            |                                                                            |
| 018             | SEC4  | Ensure that GuardDuty is enabled                                         |            |                                                                            |
| 021             | SEC9  | Ensure that all CloudTrail logs are encrypted                            |            |                                                                            |
| 031             | REL6  | EBS Volumes without recent snapshot (10 days) - All site                 |            |                                                                            |
| 036             | PERF3 | Multiple EBS volumes require conversion to General Purpose SSD           |            |                                                                            |
| 038             | COST1 | Unused EBS volumes found within site which require archiving and removal |            |                                                                            |
|                 |       |                                                                          | TOTAL COST | \$USD - \$5k AWS Credit if offered to Apexon                               |

OPxx - Operational efficiency SExx - Security RExx - Reliability PERxx - Performance COSTxx - Cost

OUR AWS CUSTOMERS USING  
WELL-ARCHITECTED REVIEW

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QMETRY

## DEEP AWS EXPERTISE

Apexon is a long-time AWS Advanced Consulting Partner and an expert in building secure, high-performing, resilient, and efficient cloud infrastructure for applications and workloads in the AWS environment.

# 125+

AWS Certifications across Cloud Practitioner, Architect, Developer and Operations Roles



AWS Centers of Excellence in Cloud Strategy Services, Migration, Cloud Optimization, DevOps, Data & AI/ML, and Life Sciences



Certified Experts and Process to Implement AWS Well-Architected Review



Service Delivery Program & Database Freedom

# 15

AWS accelerators & enablers

**aws 100 certified**  
AWS PARTNER NETWORK



APEXON & AWS

# SCHEDULE YOUR AWS WELL-ARCHITECTED REVIEW TODAY



Apexon is a pure-play digital engineering services firm focused on helping companies accelerate their digital initiatives from strategy and planning through execution. We leverage deep technical expertise, Agile methodologies and data-driven intelligence to modernize systems of engagement and simplify human/tech interaction.

We deliver custom solutions that meet customers' technology needs wherever they are in their digital lifecycle. Backed by Goldman Sachs and Everstone Capital, Apexon works with both large enterprises and emerging innovators — putting digital to work to enable new products and business models, engage with customers in new ways, and create sustainable competitive differentiation.



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