



APEXON AWS CLOUD ENGINEERING SERVICES:

# AWS APPLICATION MODERNIZATION

Accelerate your move to the cloud with Apexon and AWS



## MODERN APPLICATION DEVELOPMENT SERVICES FOR INCREASED BUSINESS AGILITY

**Apexon's modern application development offerings enable enterprises to increase their business agility and resilience with scalable cloud-native applications.**

We help development teams lay the foundation for cloud native architecture with a continuous delivery model that modernizes complex legacy systems.

Our all-in-one services include cloud enablement, industry-specific development solutions, ongoing application management, and continuous improvement to equip businesses to:



Drive shorter release cycles and faster time to market for new digital offerings



Overcome organizational cultural barriers to increase cloud-native adoption



Better position themselves to adjust to the continuously changing needs of the business

### AWS APPLICATION MODERNIZATION

## SERVICE OFFERINGS



### Re-Factoring

Apexon enables development teams to leverage the full power of AWS with minimum changes to applications by adopting cloud-native services as replacements for data, streaming, API management, logging, monitoring, and alerting.

**As a result, businesses get:**

- Reduced cost and increased scalability and reliability without refactoring or rewriting applications.
- Improved elasticity and responsiveness of monolithic applications.
- Continuous integration and delivery pipelines, and infrastructure automation for applications.



### Re-Platforming

Apexon equips delivery teams to build responsive, self-healing, auto-scaling, and serverless applications without worrying about capacity planning and monitoring.

**By leveraging the managed concurrency and routing provided by AWS, we enable applications to:**

- Scale seamlessly through unpredictable traffic and remain resilient in the face of unexpected failures.
- Incur no additional costs during idle time.



## Re-Hosting

Apexon can “lift and shift” a part of an application or the complete application — from on-premise or existing cloud environment to AWS — with no changes to the application.

**This provides several advantages:**

- Reduced cost and faster go-to-market.
- Increased elasticity and high availability.
- Continuous integration and delivery pipelines.
- Increased infrastructure automation.
- Improved elasticity and responsiveness of monolithic applications.
- Continuous integration and delivery pipelines, and infrastructure automation for applications.



## Container Adoption

When serverless isn't an option, Apexon leverages containers to deploy modern, complex, distributed applications. Containers typically require minimal changes to applications, making them an ideal next stage for applications not appropriate for major refactoring.

**And they deliver multiple benefits:**

- Reduced complexity and scale by leveraging the advantages of the container ecosystem and orchestration frameworks such as Kubernetes and ECS.
- Increased application portability and improved developer workflows by creating isolated sandboxes for each component.



## Customized Application Development Environments

Apexon can also customize your application development environment with advanced capabilities and specialty practices:

- Automated governance and security.
- Advanced app orchestration.
- Blue/green deployments.
- Self-healing patterns.
- Advanced operation metrics.
- App and infrastructure scaling patterns.

## OUR APPROACH



### STEP 1

#### Discovery & Solution Ideation – 2 weeks

Technical discovery and future state planning.



### STEP 2

#### Iterative Delivery – 10-12 weeks

Includes two-week sprints, demos, and checkpoints, and future-state technical design documentation and checkpoints. During this step, Apexon builds automation pipelines for deploying solutions; deploys pilot services via pipeline to lower environments; tests app functionality, performance and security before promoting to production; and conducts knowledge transfer of the completed solution.

# AWS APPLICATION MODERNIZATION DONE RIGHT

Apexon offers several important advantages for application modernization efforts on AWS:



## Agile Methodologies

Modern application development using agile methodologies, well-architected framework practices and clean code practices are best suited for cloud technologies. This enables the full benefits of modern age computing power, high scalability, high reliability, security and cost effectiveness.



## "Infrastructure as Code (IaC)" Approach

An "Infrastructure as Code (IaC)" approach for making development environment management and maintenance easier and more cost effective.



## Speed Development

Proven automation tools to speed development.



## AWS Certified Architects

A large pool of AWS Certified Architects with hands-on experience designing, building, migrating, and optimizing architectures that follow the AWS Well-Architected Framework.



## Accelerators & Enablers

A set of Apexon accelerators and enablers designed specifically for AWS:

- Auto-scaled compute platforms for microservice applications; one using AWS-ECS (with service discovery), and another using AWS-EKS.
- A tool for overcoming max connection issues when using AWS-RDS with Lambda.
- Auto scaled workers for AWS-SQS.
- Cognito federated identity FB/Gmail/Custom/User Pool/SAML.

# TAKE CONTROL OF YOUR APPLICATION MODERNIZATION EFFORTS WITH APEXON & AWS

**aws**  **certified**  
AWS PARTNER NETWORK



Apexon also has experience with a variety of AWS services and tools to further streamline and optimize your application development efforts.



AWS Lambda



AWS Fargate



AWS ECS



AWS EKS



AWS EventBridge



AWS SQS



AWS SNS



AWS API Gateway



AWS AppSync



AWS AppMesh



AWS DynamoDB



AWS RDS



AWS Aurora Serverless



AWS Document DB



AWS ElastiCache



AWS CodeCommit



AWS CodeBuild



AWS CodePipeline



AWS CodeDeploy



AWS CloudFormation



AWS Amplify

**AWS CUSTOMER  
SUCCESS**

**westhill**™

**intermiles**



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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