TRANSFORM YOUR APPLICATIONS FOR OPTIMAL CLOUD OPERATION

HPE Application Modernization for Cloud

MODERNIZING APPLICATIONS

Has your organization just completed an HPE Application Migration Plan for Cloud engagement and the HPE Right Mix Advisor approach has suggested that one or more applications need to be refactored before moving to the cloud? Or have you determined on your own that it is time to modernize an application?

Applications that are moving to the cloud often require modernization to fully leverage what the cloud has to offer in agility, scale, and performance.

Modern application architectures employ microservices, containerization, multitenancy, cloud-native services, and other cloud features.

Advantages of using these new paradigms, frameworks, and architecture include higher performance, improved efficiency of underlying resources, increased cost savings, and access to auto-scaling and load balancing for greater scalability.

The HPE Application Modernization for Cloud service follows a proven approach to modernization that transforms your application for optimal cloud operation and speeds time to market. During a modernization engagement, our team works collaboratively with yours to:

1. Reimagine the application user experience
2. Assess the application and underlying architecture for cloud readiness
3. Transform the application to leverage what the cloud offers in agility and scale
4. Provide a road map for the continued modernization

These are done while mentoring your team on cloud development best practices.

DESCRIPTION OF THE HPE OFFERING

HPE Application Modernization for Cloud

There is tremendous value wrapped up in your existing applications portfolio; they run the business and drive customer contact. Modernizing these applications' architecture and infrastructure while maintaining that value increases business agility and improves application scalability, resiliency, and usability and enables digital innovation for the business.

The HPE Application Modernization for Cloud service approach, shown in Figure 1, consists of:

Experience design: Workshops uncover what application consumers really want by putting the consumer at the center of the solution. Then, with an understanding of desired business outcomes and empathy for consumers, design sessions quickly turn ideas into interactive prototypes to drive creative solutions.

Application assessment: Manual and automated code analyses assess an application's cloud readiness. Reviews of application architecture assess applicability of decomposing business logic into cloud architectures, such as microservices, and the suitability of incorporating cloud-native services to meet business, performance, and scalability needs.

Evaluation of nonfunctional requirements drives the definition of an appropriate cloud infrastructure as a foundation for transformation.
Proof of concept (POC): Rapid build-out of a POC validates technical decisions, demonstrates functionality to stakeholders, and prepares the foundational infrastructure and technical components for minimal viable product (MVP) development.

Planning and road map: Modernization requirements and assessment results are translated into high-level epics and user stories to be decomposed into project backlog during development sprints. User stories are prioritized, and the MVP is defined to accelerate time to value. A phased plan is developed that serves as a road map to how business value can be realized.

Cloud build-out: A new cloud environment is built out or existing cloud infrastructure is modified as defined by the architectural assessment, leveraging minimum viable cloud (MVC) methodology and automation framework Intellectual Property. CI/CD tools and processes are established, including automated testing and code promotion, to speed development cycles.

Transformation: Delivered as a series of development sprints following the MVP road map, the application is transformed for optimal cloud operation, using a lean, agile approach to drive time to market. The number of development sprints depends on the scope of the MVP.

FEATURES AND BENEFITS

There is huge value for organizations to modernize and move their applications to the cloud:

- Accelerates innovation—Builds a secure, scalable, operations-ready cloud environment deployed through infrastructure as code for maintainability with the frameworks and tools your development teams need to accelerate innovation.

- Increases efficiency and productivity—Enables your teams to drive time to value and rapidly respond to change using an agile approach to modernization. Refactoring using cloud-native architectures and services increase both application efficiency and developer productivity.

- Increases application resiliency—Speeds development cycles by deploying reliable release pipelines and infrastructure automation. Increases quality and resiliency through the introduction of automated testing.

CONCLUSION

The HPE Application Modernization for Cloud service follows a proven approach for modernizing applications for the cloud and leverages experience and intellectual property curated through hundreds of successful cloud engagements. Whether you have a single, strategic application or a portfolio of applications to modernize, this service can be tailored to meet your needs.

LEARN MORE AT hpe.com/services/cloud