atsistemas

Microsoft Partner

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Gold Application Integration
Gold Application Development
Gold Cloud Platform
Gold DevOps
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Start modernizing your Apps to Azure Stack

About atSistemas:

We are a consulting, IT services and software development company created in 1994 with more than 1,700 professionals. We offer innovative solutions and help more than 400 clients in their Digital Transformation, as well as work on international projects

App Modernization PoC

We address organizations that currently have a set of existing Web or Web API applications and want to start their modernization with a first contact focused on one of them.

The goal of the service is to **take an existing application** in technology that is hosted in a CPD or on-premises under custom source control, and to carry out the necessary work so that its source code is incorporated in a CI and CD environment under Azure DevOps, which can deploy it using the services provided by Azure.

The tasks will be considered **completed when and existing application is fully migrated to Azure DevOps serv**ices, and a CD pipeline is created to get the **application and all its components are fully deployed and functional under Azure Kubernetes Services**, along with the rest of necessary Azure Services.

Why modernize your Applications to Cloud?

Benefits and patterns

App modernization to the Cloud enables an organization to protect its investments and refresh its software portfolio to take advantage of contemporary infrastructure, tools, languages, and other technology progress.

An application modernization strategy that includes Cloud migration can reduce the resources required to run an application, increase the frequency and reliability of deployments, and improve uptime and resiliency, among other benefits.

There are several modernization approaches and patterns, such as **Lift and Shift** (sometimes called rehosting) or **Refactoring**, that consists of rewriting and restructuring the application to transform it from monolithic to smaller, decoupled pieces. Our approach on this service is **Replatforming** , which is a compromise between the lift-and-shift and refactoring approaches and does not require major changes in code or architecture.

Assessment execution and deliverables

This service will be carried out in three phases:

1. **App analysis**. Such as components, frameworks and separation of frontend and back end.
2. **Definition of modernization strategy**. And redefinition of estimated efforts and costs. This strategy will be validated by the customer prior to next phase.
3. **Execution**.

The tasks will be considered completed and validated when

- The source code of the app is migrated and maintainable under Azure DevOps services under DevSecOps principles, such as use of Azure DevOps Secrets and Azure Key Vault.
- A minimum Azure infrastructure is created to serve the application functionality under the premises of scalability, security, and resilience. That includes database such Azure SQL or Azure Cosmos and a preproduction and production environment, including net
- The application backend and its dependencies are evolved to container ready.
- The application frontend, if any, is evolved to Angular or React modern frameworks and dockerized.
- An Azure Kubernetes Services (AKS) is configured to serve the application.
- A pipeline for CI and CD is created, enabling the application to be deployed on Kubernetes.
- The application is tested to be deployed directly from Azure DevOps.

The estimated effort for a small application, consisting of 10 screens and 20 entities is about four-week. But this approximation will be reviewed with a previous analysis of the application and its dependencies.

We are constantly growing with the spirit of a start-up, creating value and attracting talent.

Our offices are located in Madrid, Barcelona, Cadiz, La Coruña, Santiago de Compostela, Mallorca, Zaragoza, Huelva, Seville, Milan and Lisbon

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