ATLAS: Application Transformation Leveraging Agile Strategies

YOUR CLOUD ARCHITECTURE IS NOT THE PROBLEM. IT CONCEPTS CAN SOLVE YOUR TECHNOLOGY CAPABILITY BACKLOG.
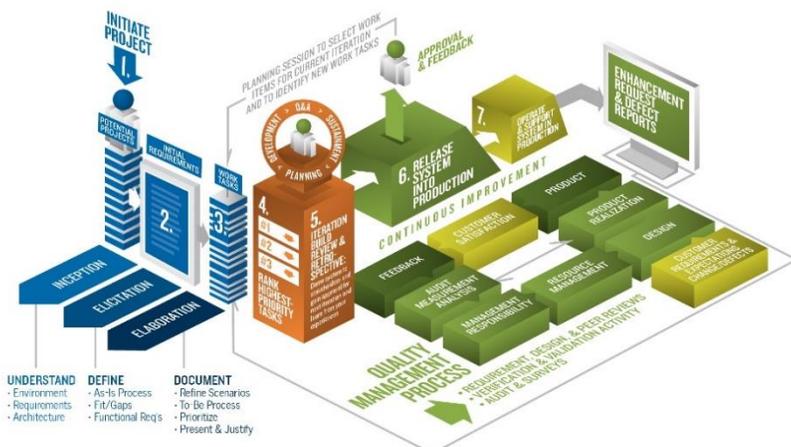
A problem in today's enterprise architectures is speed. Not the speed of the architecture itself, but rather the speed of a capabilities inception to its realization that is inclusive of adherence to budgets, security, and quality. There are many aspects to this problem and ITC has an approach called ATLAS: Application Transformation Leveraging Agile Strategies that resolves many of these issues. ATLAS addresses enterprise architecture, development, and operations creating a simple and repeatable model that iteratively improves quality while being fast, cost effective, and secure to solve your capability backlog.

OUR APPROACH

ATLAS approaches enterprise architecture transformation though the implementation of microservices and Development Operations (DevOps). A microservice architecture is especially effective in environments that expect innovation but are stuck under the weight of process and can't deliver effectively. Microservice architectures bring speed and flexibility to adapt to your ever changing conditions by rapidly implementing new services. Proper implementations of microservices permit iterative development practices to flourish. Enterprises don't have to spend time, budget and risk to deploy large changes all at once through an already complicated configuration management process. With microservices and DevOps, you can eat the elephant one bite at a time.

To support rapid development of microservices, we utilize DevOps. DevOps merges development and operations by automating the path from code check in to deployment. This is done by integrating development tools, code repositories, library management tools, build tools, automated testing, and cloud-based deployment. This merger frees up resources to build more capabilities instead of managing deployments.

OUR MERGED MIRCOSERVICES/DEVOPS APPROACH BENEFITS YOU IN MANY WAYS.

With microservices and DevOps we are able to continuously develop, test, and deliver new capabilities. Each cloud based microservice can be elastically scaled based on their individual load. Microservices are language agnostic opening the capability to you entire enterprise. By utilizing microservices instead of building large monolithic applications we build lots of very small services that each address a single concern that can be used over and over across your enterprise.

OUR SUCCESS

The ITC Team has a proven track record of implementing DevOps and cloud based development environments. We have worked with two different customers at the Defense Intelligence Agency in helping to design and implement micro services in a DevOps environment.

Our first deployment was working with the DoDIIS Application Engine team to help integrate our development environment into an open source DevOps stack built around GitHub, Jenkins, Puppet etc. to stream line the development and deployment of HUMINT tools. These tools were built upon the principles of RESTful services providing capability to lightweight web frontends.

We have also implemented a DevOps environment for the Defense Counter Terrorism Center (DCTC). For this effort we tied our open source DevOps stack into the unclassified Federal AWS cloud as well as the C2S Classified cloud. Here we build multiple microservices for deployment through the DevOps process on both networks. We are currently deploying all of the microservices to Docker containers to continue to improve the movement of code from development into production in an automated manner.

FRAMEWORKS
AWS
Openstack
VMWare

SERVICES
Data Ingestion
Data Indexing
Geospatial
Temporal

CLOUDS
Public
Private
Virtual

ITC HAS HELPED SEVERAL ORGANIZATIONS CHOOSING THE RIGHT CLOUD BASED SOLUTION

Implementing cloud based solution requires an organization to balance its portfolio of IT services for customers, providers, and partners. An effective strategy will take Frameworks, Services, and Clouds into perspective when providing critical cloud based infrastructure.

ITC ONCEPTS
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