



DevOps

Description:

Development and Operations as one.

This means faster deployments and updates and a better user experience. It becomes easier to make your applications highly available and to scale with demand. You'll be able to address coding issues and roll out updates with maximum efficiency.

When building DevOps-centric solutions, we'll use tools native to AWS like AWS CloudFormation, CodeCommit, CodePipeline, CodeBuild, CodeDeploy, ElasticBeanstalk or OpsWorks alongside our expert use of 3rd party tools like Chef, Jenkins and Gerrit to automate infrastructure, testing and QA, meaning your release times will be dramatically reduced and your infrastructure will be automatically scalable and repeatable.

Our DevOps service provides;

Resilience and Fault Tolerance

By placing instances across multiple AWS availability zones (AZs), we can achieve fault tolerance and resilience should a server or whole AZ go down. New servers self-provision in line with the code, so it is easy to replace and upgrade instances.

Autoscaling

Autoscaling policies allow your infrastructure automatically react to peaks in demand, automatically adding new servers and configuring them, based on metrics such as server load, visitor levels, or customer-specific data.

Adaptable

Through each stage of design, installation, configuration, monitoring, and troubleshooting you will be able to spot any issues and adapt underlying templates, before retesting the new infrastructure design on test and QA environments, then pushing to live.

Easily Replicable

The infrastructure for your dev, staging and production environments is defined in code and can be version controlled and replicated across each environment, meaning that potential issues are more likely to be identified earlier in the development process. This means that test environments are a much better representation of the live environment, giving more confidence in testing and QA.

Reducing Human Error

Rather than having an ops team manually logging into production instances and applying patches and performing maintenance, the work is done on the underlying infrastructure templates. Any change is pushed to the test environment, tested, and finally deployed on live.

Our Offering:

We like to get involved on a consultancy basis, ideally at the planning stage of a project. We can also help teams who are already well-versed in DevOps methodologies, but who want to utilise more AWS-centric technologies such as CloudFormation and CodePipeline.

Equally, we can work with teams who are just starting on their DevOps journey and want to build this into their AWS infrastructure.

Often we find that when customers are considering moving to the cloud, the path of least resistance is to migrate a carbon copy of their infrastructure ("lift and shift"). While this can be a viable strategy, we often find that the move to the cloud is an ideal time to reconsider the underlying architecture and design of all systems.

When we get involved with clients at a consultancy level, we will often work with them early on to identify areas where the underlying AWS tools and systems can give efficiency and cost improvements. Designing these in, right at the start of the cloud journey, can make the process simpler, more cost-effective, and more scalable.

Cost:

Pricing available on request.