AWS Cost Optimisation Solution

Assessment

Our AWS Cost Optimisation Solution starts with an initial assessment phase. This phase is important for us to understand your AWS usage and utilization. All we need is read-only access to your AWS account(s) and regular collaboration sessions with your "Dev" and "Ops" teams.

The assessment phase usually takes up to 2 weeks (This depends on the number of the AWS accounts) which is handled by AWS Professional-level Certified Engineers.

The output of this phase is a detailed report which includes our discrete suggestions and potential cost saving.

Roadmap

Considering the suggestions, the actions to be taken will be decided based on your regulatory, cultural and strategic constraints.

Those action items will be divided into short-term and long-term actions which are prioritized according to the complexity of change and potential cost saving.

The output of this phase is a concrete roadmap which has a prioritized list of actions and a detailed plan of the execution.

Execution

This phase includes all engineering work which needs close collaboration with your team.

Based on your constraints, we share the responsibilities of each change, together with pre-agreed change intervals wherever required.

The changes are applied straightaway beginning from short-term changes, which begins effecting directly your AWS monthly costs.

We charge 20% of the annual cost optimisation

Because the ultimate target of this solution is cost optimisation, we commit to decreasing your overall costs.

The annual cost difference between the initial state and the resulting state is your cost-saving and we charge 20% of that annual saving as the cost of the engineering efforts.

Cost Optimisation Best Practices

In our solution, we help our customers to benefit from AWS cost optimisation best practices as well as some other practices that we had applied within our successful projects. Here you can find some of the best practices we apply during our execution phase:

- Right-sizing services
- Leverage the right pricing model like Spot instances and Reserved Instances
- Appropriate provisioning
- Geographic selection
- Using managed services
- Optimising data transfer
- Using elasticity and scalability
- Migrating unused/infrequently-accessed data to an appropriate tier
- Scheduling instance usages for non-production workloads
- Terminating obsolete resources
- Cost Usage awareness

AWS Solution Provider Program

As an AWS Solution Provider program authorised partner, we are able to manage, service, support, and bill Amazon Web Services (AWS) account(s) for our customers. Depending on the customer's account, whether it's a new or an existing one, we may offer discounts both on AWS usage and also AWS support packages as long as the customer does the billing with us.

This program has benefits as listed below:

- Discounts on AWS services
- Ability to create and manage customer accounts end-to-end
- License Rights to Resell AWS to End Customers
- Business Planning & Management Support
- Discounts on select AWS Marketplace offerings

Cost Optimisation by Application Modernisation

Application Modernisation has several aspects which also have benefits for cost optimisation, like:

Containerisation/Kubernetes: There is a potential cost-saving by containerisation of your applications which then orchestrated by Kubernetes, bringing the option to run the same workload with less number of cloud instances.

Decoupling the architecture: Decoupling brings several advantages including
- Splitting the monolith to microservices and serverless
- Functional level scaling rather than just horizontal
- Applying Eventual Consistency with Event Sourcing which can bring High-Availability under high load without a need to increase resources

Cloud-Native Services: We define "Cloud-Native" not only containerisation and microservices but also introducing cloud services which, at-the-end, will decrease the load on the existing architecture, some examples:
- Triggers rather than polling
- Scheduled(cron) jobs management
- Business agnostic services like Email Gateway, Object Storage ...

Implementing various level of caches
- Output-cache
- Data-layer cache
- Custom-cache
- API-level cache
- Which results in decreasing the number of hits on DBs, APIs and between services…

Cost Optimisation by leaving Proprietary Licensing

One of the hidden costs of the Cloud resources are the implicit license rentals, which are added to the hourly pricing. Those can include

Microsoft Windows Licenses: Windows Operating System licensing costs have the potential to be zeroed with a possible Linux migration

Database Licenses including MSSQL, Oracle have potential to be migrated to Cloud Managed Databases which can be based on MySQL/PostgreSQL which brings great potential for cost reduction.

We always recommend our customers the optional Continuous-Optimisation package! Your account is live and you keep on working in it which means you can keep on adding more and more resources/services to the account(s). Our Continuous-Optimisation Package helps you keep your AWS Costs on track. Our engineers check your account(s) every month and take necessary actions for the most optimised structure. (Of course with discussing with you)

With using our optional Continuous-Optimisation package you can be sure that you are not paying more than you have to.

aws partner network

Advanced

Consulting Partner

DevOps Competency

Microsoft Workloads Competency

Solution Provider