

EC2 Optimizer: Automating AWS Compute Resource Optimization

Reduce your Amazon Elastic Compute Cloud (EC2) cost by over 50% by completely and transparently automating the optimization process

Public clouds are transforming the way businesses deploy business applications, making cost management of cloud infrastructure including Amazon EC2 a major challenge.

Depending on specific user needs, customers can pick and choose a combination of available options to optimize their AWS compute resources.

Instance Resizing Helps identify Amazon EC2 compute resources that are overprovisioned in order that you only provision and pay for resources that are consumed. FittedCloud provides you with full control over determining if resources should be optimized and if so when the optimization should be carried out.

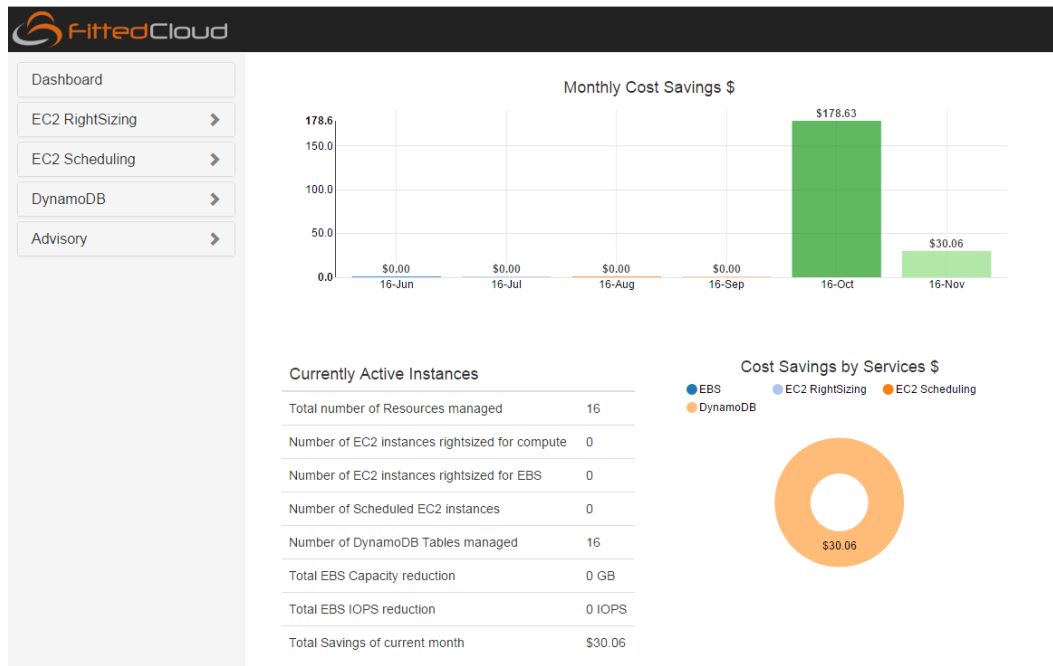
User Defined EC2 Instance Switching Allows customers to specify simple schedules that can be used to switch instance types. This is designed for users that want to reduce cost by using different types of instances at different times based on known workloads.

User Defined EC Scheduling – Enables customers to specify a simple schedule to be used to manage the power of instances. Scheduling options include weekdays, weekends, or any day of the week.

Machine Learning Based EC Scheduling – Machine learning algorithms are used to analyze historical idle times of EC instances and recommend optimum start/stop times. Machine learned policies are continuously monitored to ensure that recommended policies are accurate. If system activities are detected within the suggested start/stop times, schedules are automatically adjusted and reflected in future optimization policies.

SOLUTION BENEFITS

- Automating the rightsizing of compute resources
- Application agnostic
- Support for a wide range of AWS compute instance types
- Support for Amazon Linux, RedHat/CentOS, Ubuntu and Oracle Linux (EC2 scheduling, instance switching are OS independent)
- Real-time reports on utilization for management, compliance and cost savings



Innovative Automated EC2 Optimization

FittedCloud EC2 Optimizer is a dynamic compute resource provisioning and optimization software application for public clouds based on patent pending technology. FittedCloud constantly monitors resource utilization of customer environments and adjusts resource provisioning to match required compute utilization. Resource resizing is done in a such way that there is minimal or no impact to compute performance. It's architecture is comprised of four key components:

Information Collector

FittedCloud Information Collector constantly monitors customer environments and collects utilization information for managed resources, which is then stored in a database.

Decision Engine

FittedCloud Decision Engine uses multiple algorithms to make optimization decisions based on the information collected. Machine learning algorithms are used to predict resource utilization based on past usage. In some cases decisions are also made based on real time information.

Optimization Agents

Decisions made by decision engines are executed by resource specific agents. Agents perform executions in a completely transparent manner wherever applicable. In some cases, customers are required to confirm optimization actions before executing decisions. Agents also ensure that resource utilization is monitored constantly and any further adjustments (up/down) are performed as needed.

Reporting Tools

Reporting tools create reports on utilization and cost savings across configurable timeframes.

FittedCloud solutions can be deployed in two ways depending on a customer's requirement. In a SaaS/Hosted model, the servers comprised of the decision engine, information collectors and reporting tools are hosted and managed by FittedCloud. In the Enterprise model all the components run inside customer's environment. Both versions are identical from technology and product feature/functionality perspective and are extremely secure and vetted.

About FittedCloud

FittedCloud was founded with a vision to help customers realize the true potential of cloud – a truly elastic platform. FittedCloud's Dynamic Cloud Optimization solutions help customers reduce their public cloud infrastructure costs significantly by ensuring that resource provisioning matches application utilization. FittedCloud solutions achieve this transparently, automatically and without any user intervention or application disruption. For additional information visit fittedcloud.com.