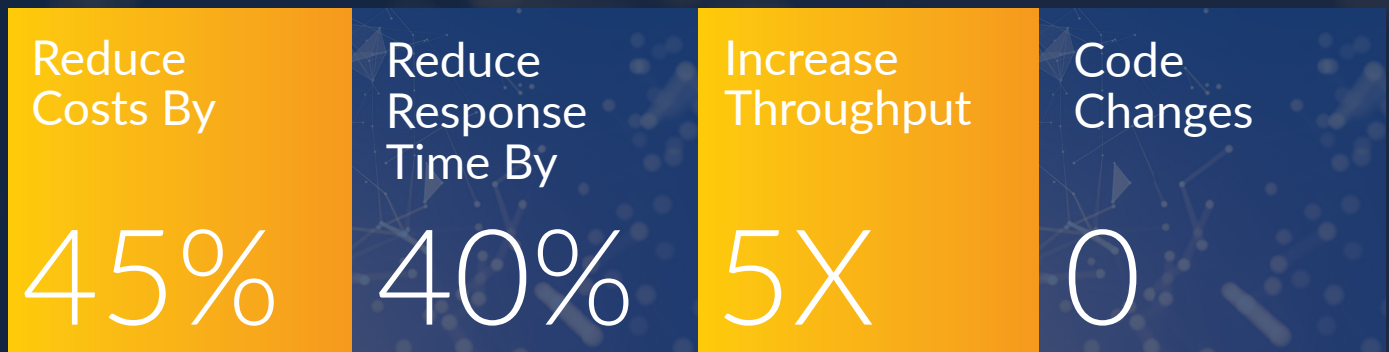


Granulate for AWS

Improve AWS Performance to Cut Costs by 45%

Granulate's real-time, continuous optimization solution cuts AWS compute costs by 45% while improving latency and quality of service. Granulate agents run on EC2, EKS, EMR, and ECS by learning the application's specific resource usage pattern and data flow.

Connecting Amazon Web Services (AWS) to Granulate is simple and secure, accomplished by setting up a new IAM role with Read-Only permissions according to AWS best practices. Integration helps AWS customers take advantage of Granulate more effectively.



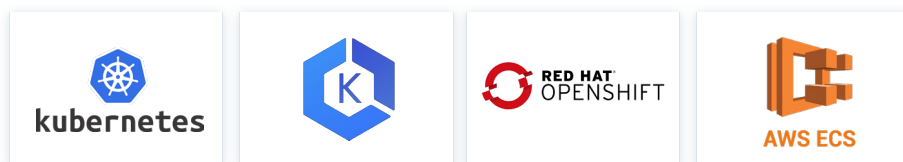
AWS Ready, Out-of-the-Box

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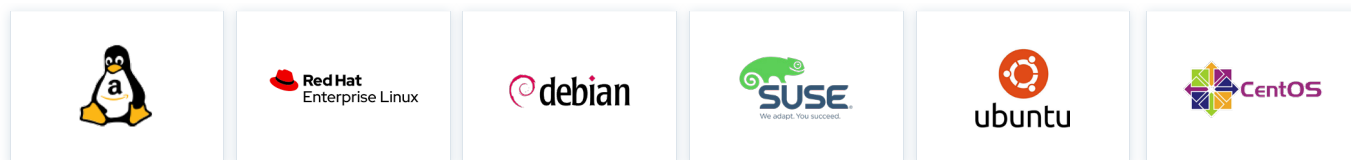
Granulate supports AWS by running on:

- EC2
- EKS
- EMR
- ECS

Orchestration



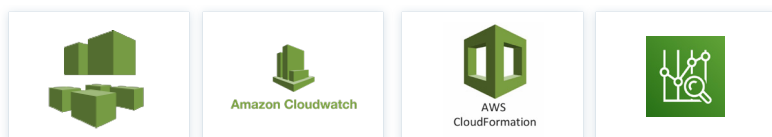
Operating Systems



Compute



AWS Services



Simple Installation with No Maintenance Required

Installation and ongoing administration of Granulate requires very little overhead.

- **Easy Installation** - By entering just one line of code in the command line, organizations can manually install Granulate's agents in minutes. Standard provisioning tools such as AWS CloudFormation, EMR bootstrap, Chef, Ansible, and Puppet are fully supported as well.
- **No Maintenance** - Each Granulate agent is fully autonomous and does not require adjustments or ongoing maintenance, they continuously tune and update themselves.
- **No Code Changes or R&D Required** - Agents monitor and then automatically and continuously update to reflect the application's needs - without human intervention, code changes, or any R&D efforts.



No
Maintenance



No
R&D effort



No
code changes



Line of code
installation

Use Cases

Granulate supports a wide variety of AWS use cases, including:

1 Kubernetes Orchestration on EKS -

Granulate's Kubernetes monitoring and orchestration agent is only deployed on Kubernetes clusters. The Maestro provides full visibility into EKS clusters, seamlessly interacts with HPA scaling policies, and achieves your cost-performance goals by applying custom rightsizing recommendations based on actual usage in production.



2 Optimizing Big Data Workloads on EMR

Granulate excels at operating on Amazon EMR when processing large data sets. Granulate optimizes resource allocation on YARN on EMR autonomously and continuously, so that your data engineering team doesn't need to repeatedly manually monitor and tune the workload. Granulate also optimizes JVM runtime on EMR workloads.

3 Runtime Optimization on AWS Services

Granulate sAgents perform PGO (profile-guided optimizations) of resource allocation decision-making at the runtime levels. Granulate's sAgents load the runtime optimizations to the running processes which perform continuous optimization to the runtime resource management and code execution, resulting in immediate improvement in CPU utilization and processing time.

Why Granulate? Immediate Benefits

Cut AWS Compute Costs by up to 45% -

The same workload can be supported with much less compute. By customizing to each application's specific needs, Granulate ensures the same workload can be supported with much less compute.

Improve Workload and Application Performance -

Granulate's agents dramatically increase throughput (by as much as 10X) while slashing response time by 15% or more.

For more information contact info@granulate.io

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