

# Granulate for Azure

## Improve Azure Performance to Cut Costs by Up to 45%

By learning the specific resource usage pattern and data flow of the application, Granulate's real-time, continuous optimization solution is able to reduce Azure compute costs by up to 45% while improving both latency and quality of service.

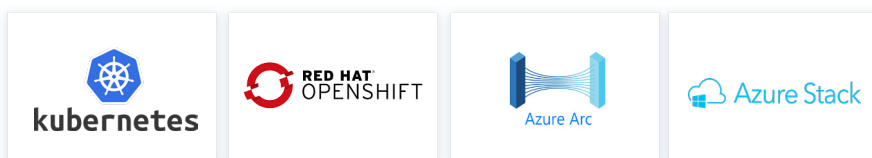


## Azure ready on-the-spot

Granulate is Azure-ready from day one, with broad support for Azure compute resources and services. Granulate supports Azure by running on:

- AKS
- HDInsight
- Azure Compute

### Orchestration



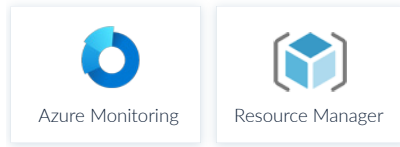
### Operating Systems



## Compute



## Microsoft Azure Services



# Easy Installation - No Maintenance Needed

Improving workload performance on Azure has never been easier with Granulate, as it only requires one line of code for installation and no ongoing maintenance.

- **Simple 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 Azure Resource Manager, Chef, Ansible, and Puppet are fully supported as well.
- **No Maintenance** - Each Granulate agent is autonomous and does not require 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

# Sample Granulate Use Cases

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Granulate supports a wide variety of IT infrastructures and use cases, including:

## 1 *Kubernetes Orchestration on AKS*

Granulate's Kubernetes monitoring and orchestration agent is only deployed on Kubernetes clusters. gMaestro provides full visibility into AKS 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 HDInsight*

Granulate excels at operating on Azure HDInsight when processing large data sets. Granulate optimizes resource allocation on HDInsight 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 HDInsight workloads.

## 3 *Runtime Optimization on Azure 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? Prompt Benefits

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### *Cut Azure Compute Costs by up to 45% instantly -*

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](mailto:info@granulate.io)

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