

# IBM Turbonomic Application Resource Management (ARM) for Amazon Web Services

Cloud optimization you can continuously automate to prevent performance risk and cost overruns.

Achieve real business outcomes with automation you can trust.



Improve app performance **↑ 20%**



Reduce cloud spend (and carbon footprint!) **↓ 30-50%**



Faster time to market **↑ 40%**



Increase IT productivity **↑ 35%**



## Accelerate safe cloud migrations & adoption of PaaS services

Optimize on-prem workloads first, assess proper cloud consumption, then maintain optimal operation in AWS



## Unlock cloud elasticity with continuous optimization

Leverage software (not people) to continuously match real-time app demand to the public cloud's unprecedented number of configuration options



## Connect cloud optimization to the end-user experience

Application context is critical to operationalizing automation. Cloud teams confidently automate because App Owners and the LOB can see exactly how dynamic resourcing ensures great end-user experiences.

Correlate application response-time or transaction throughput to dynamic resourcing. Turbonomic integrates with...

- Instana
- Dynatrace
- New Relic
- AppDynamics
- And more!

No APM? No problem. We've got you covered with our purpose-built data integration framework.

# Unified platform delivers optimization across all app resources.

## Elastic Compute (EC2)

Automatically determines the correct EC2 instance type for cloud application workloads, accounting for the following with every compute scaling decision:

- VCPU
- VMem
- Network & Storage IO
- Throughput
- RI Inventory
- Pricing/Discounts
- Disk count, quota, available region capacity, and more

The only solution that simultaneously considers IOPs, RIs, and discounts.

Full-stack visibility includes Graviton support!

## Elastic Block Storage (EBS)

Considers IOPS and throughput, to determine when you need to...

- Scale between cloud tiers for performance (IOPS, throughput) and cost
- Size up volumes for performance (IOPS, throughput)
- Modify capacity of IOPS & throughput limit for IOPS limits for EBS io1 & io2.

Increase volume sizes to improve performance. Identify & delete unattached volumes. Always, use exactly what you need.

## Relational Database Service (RDS)

Considers storage & compute when generating RDS scaling actions. Continuously analyzes vCPU, vMem, DB Cache Hit Rate, Storage Amount, & IOPS, generating specific scale up / down actions, which include changes in:

- The compute tier
- The storage tier
- The storage amount
- The provisioned IOPS (for the io1 storage type)
- Or a combination of actions

Supports:

- Amazon Aurora
- MySQL
- Maria DB
- PostgreSQL
- Oracle
- Microsoft SQL Server

## Reserved Instances

Delivers RI-aware scaling and purchase recommendations.

**RI-aware EC2 scaling actions** increase existing RI inventory utilization.

**Demand-based RI purchasing actions** maximize reservation-to-VM coverage.

## Elastic Kubernetes Service (EKS)

Continuously optimizes for performance and cost via container rightsizing, pod moves, cluster scaling, and planning.

- Automate resourcing to assure application performance while minimizing cost
- Understand costs associated with your EKS clusters (and execute actions to minimize it)
- Confidently suspend unneeded nodes
- Scale responsibly (and support environmental sustainability!)

Operationalize automation for real business outcomes

Only Turbonomic provides specific actions that prevent performance risk and cloud waste. Automation at scale necessitates a proactive approach. Integrate with any pipeline, IaC, ITSM, or communication tool in your organization!

- Ansible
- GitHub
- GitLab
- Jenkins

## AWS Competencies

–Migration & Modernization Competency

–Cloud Management Tools Competency

–Microsoft Workloads Competency

Supports:

- Amazon EC2
- Amazon EBS
- Amazon RDS
- Amazon EKS

Available on the AWS Marketplace!

# Explore in a live sandbox environment

[turbonomic.com/try](https://turbonomic.com/try)

