

How to Align Every AWS Resource with Your Business Using Workloads



Meet the Speakers



JT Giri

CEO, Founder



James Wilson

VP, Engineering



Mahanth Jayadeva

Solutions Architect





Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 175 fully featured services from data centers globally.

Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster.



nOps allows organizations to operationalize well-architected framework. We are on the mission to align every resource in AWS with your business goals.



powered by aws

aws marketplace

AWS Well-Architected

Optimizing Your Workloads on AWS

AGENDA

DETAILS *(All times PT)*

- 11:00 - 11:05 am - **Welcome & Intros** - JT Giri, nOps
- 11:05 - 11:20 am - **Challenges with unmanaged resources** - Mahanth Jayadeva, AWS
- 11:20 - 11:35 am - **Defining workload to bring accountability across teams** - JT Giri, nOps
- 11:35 - 11:50 am - **Using ML to define workloads, create cost and security controls, and enforce a robust cloud tagging policy** - James Wilson, nOps
- 11:50 - 12:00 pm - **Live Q&A** - nOps & AWS



AWS Well-Architected

Challenges with Unmanaged Resources



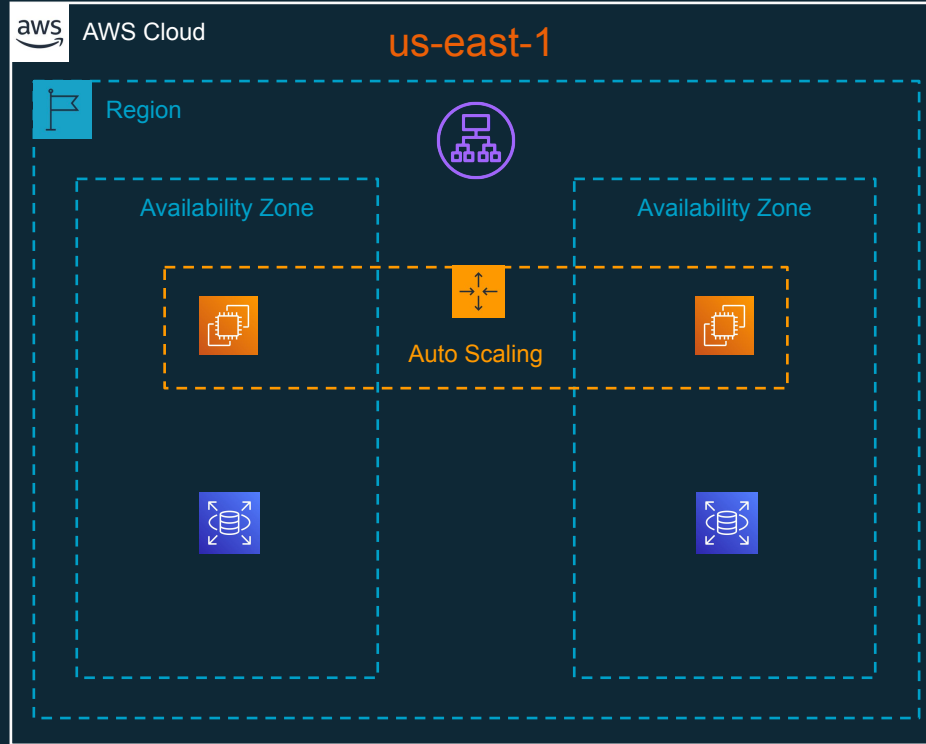
Mahanth Jayadeva
Solutions Architect
Amazon Web Services

What *really* is an application?

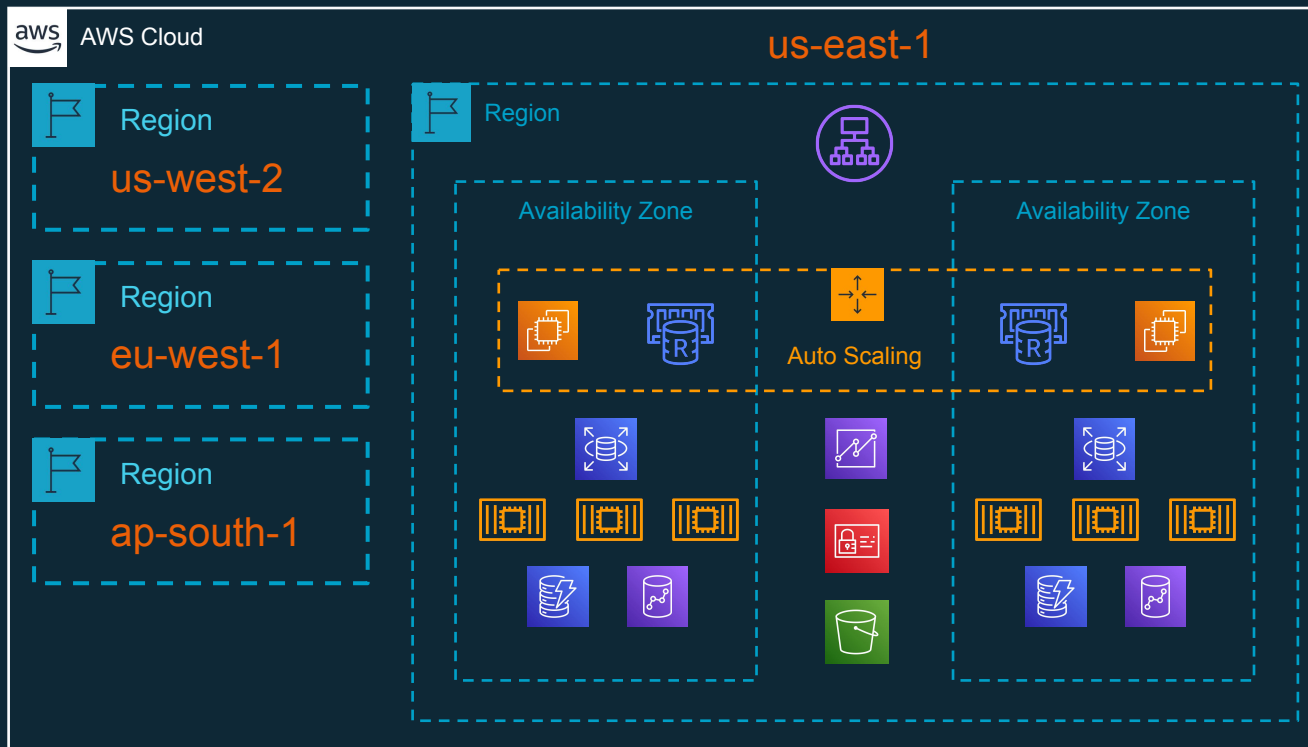
- Code that executes business logic
- Line of Business determines “end state”
- Developers create it



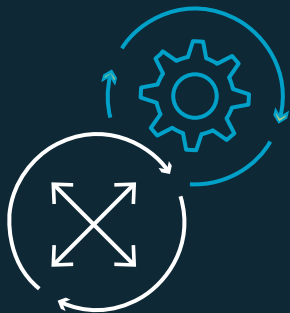
The *first* application



Growth is natural



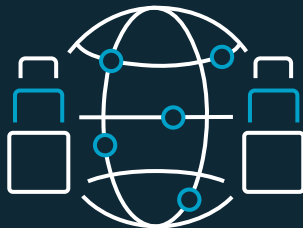
Pillars of AWS Well-Architected



Operational
Excellence



Security



Reliability

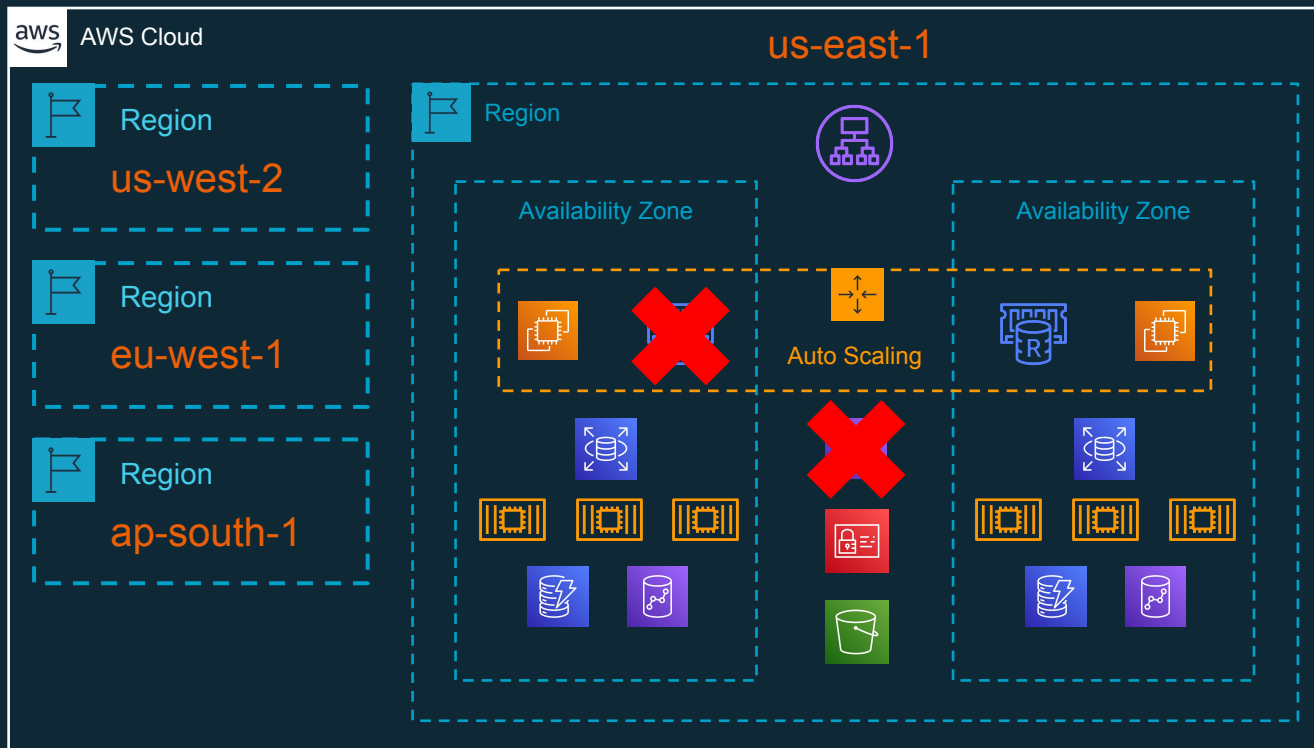


Performance
Efficiency

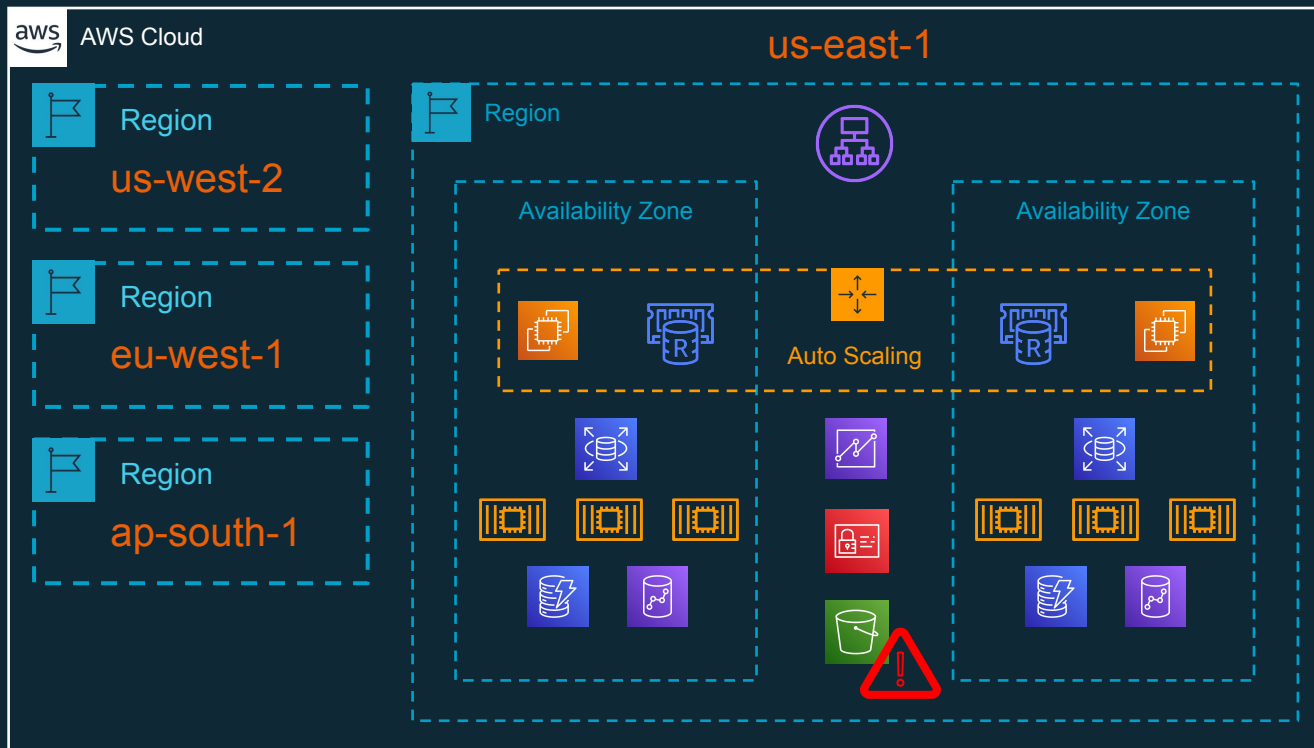


Cost
Optimization

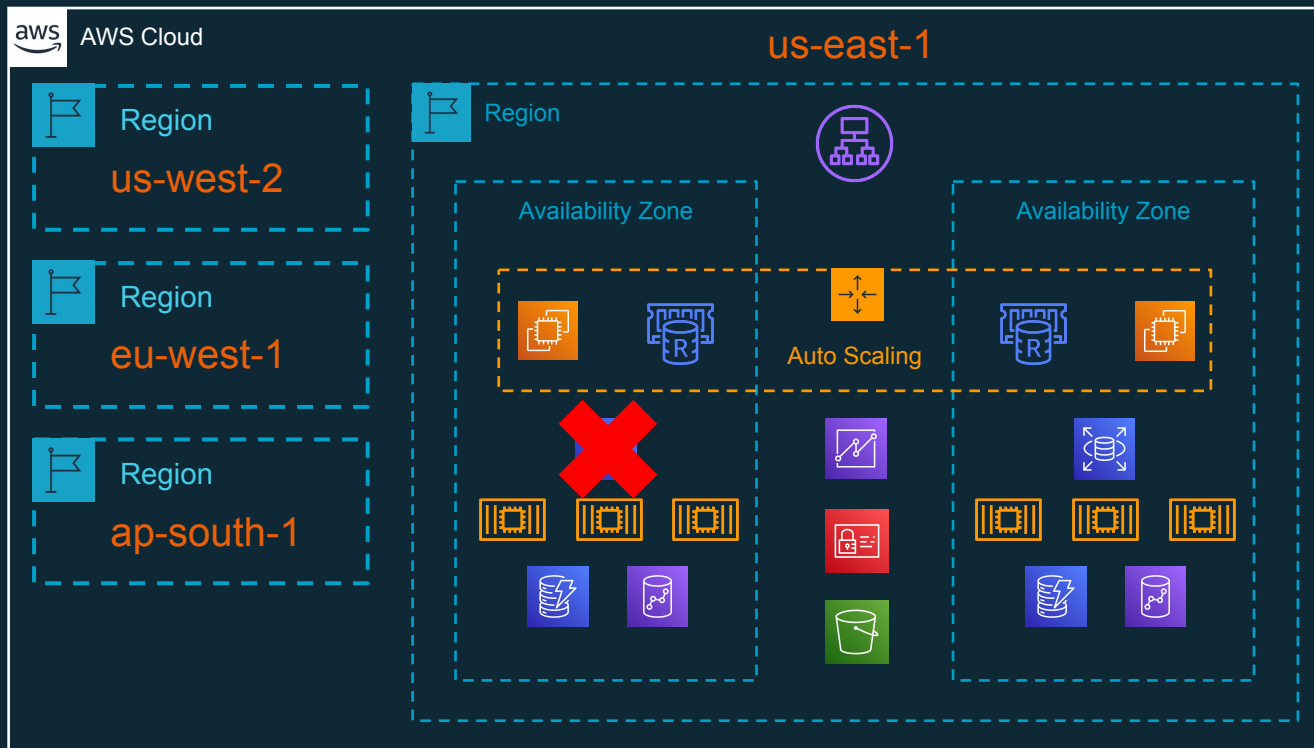
Operational challenges



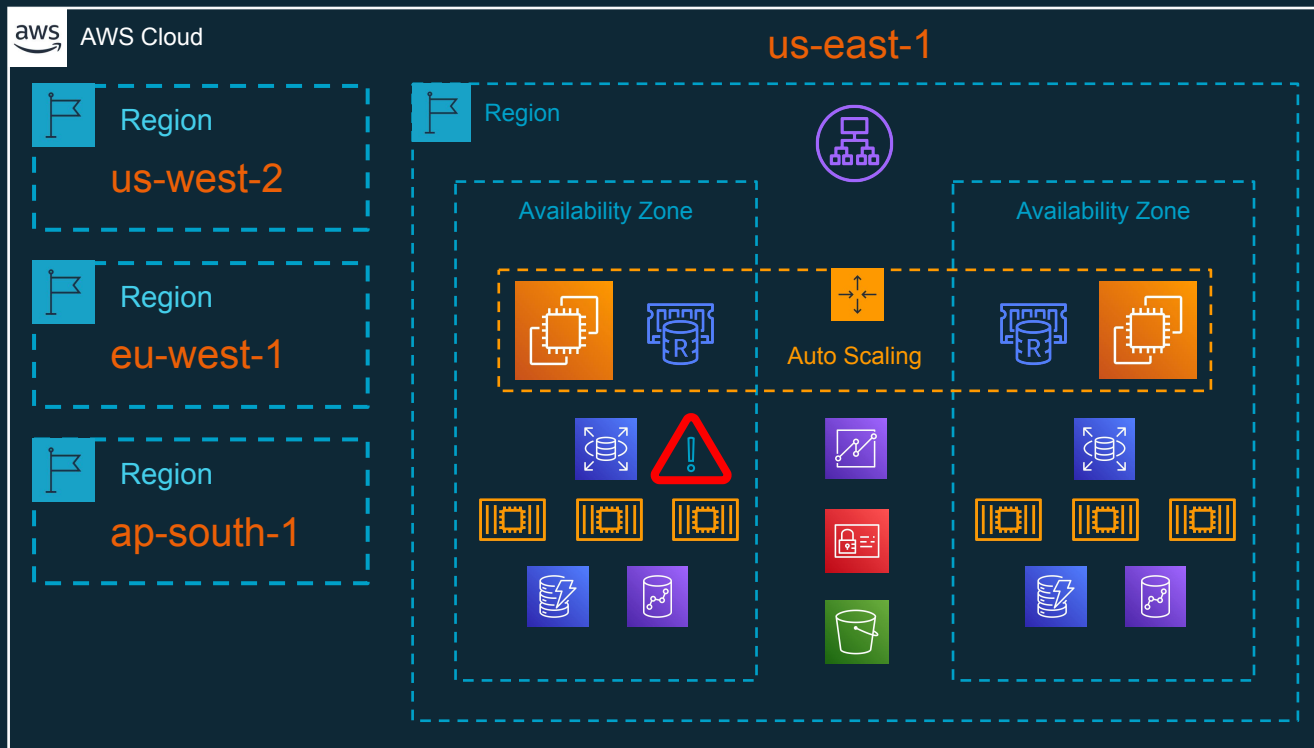
Security challenges



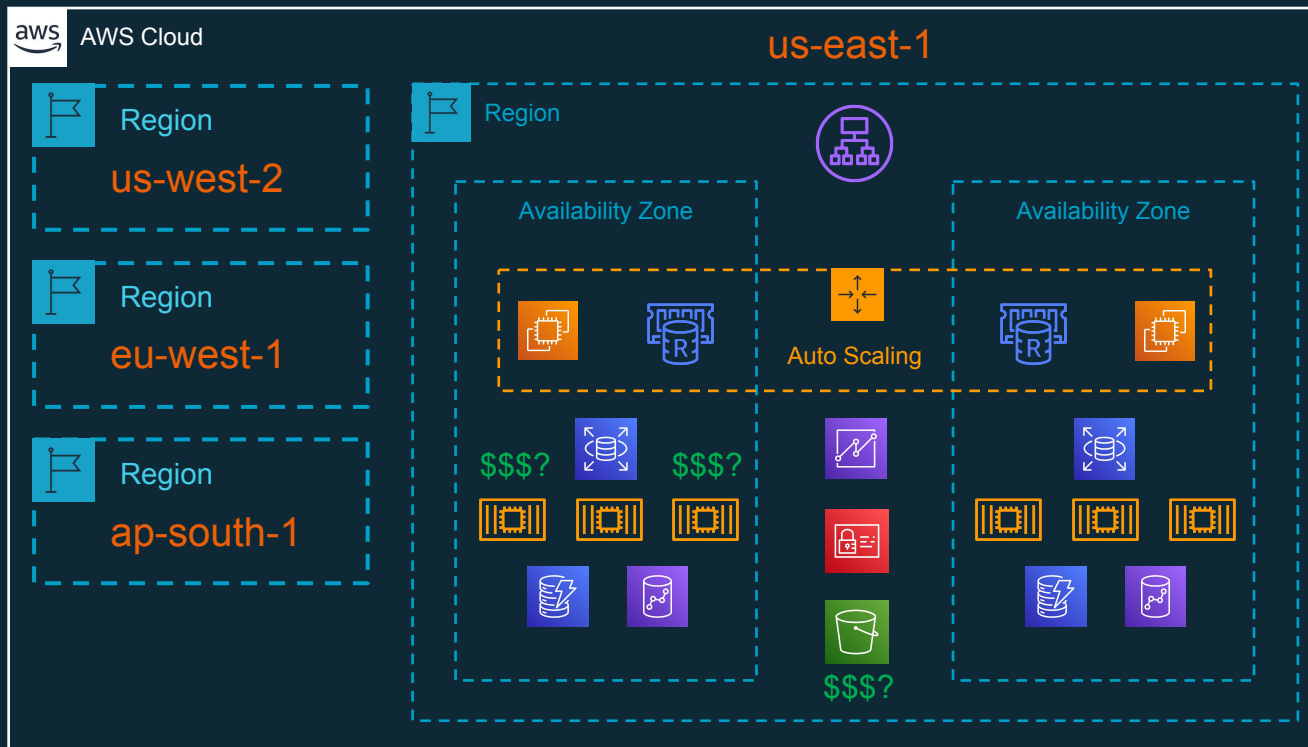
Reliability challenges



Performance Efficiency challenges



Cost Optimization challenges



When you look at the workloads your team is building, can you answer the question:

“Are you Well-Architected?”

Defining a workload



People and Teams



Infrastructure and Services



Plans and Procedures

Defining workloads to bring **accountability** across teams



JT Giri
CEO & Founder
nOps

If it's everyone's responsibility,
it's no one's responsibility.

Define clear roles and responsibilities



Cost optimization function



RI management



Define role for assigning budget



Upload security incident management

Workloads in nOps

TasksMembersCalendarRolesWorkloadsNotifications

Responsibilities

Add new

Sort by: pending


My Tasks

Responsibilities	How often?	Role
Responsible for assigning budgets for workload	As detected	Budget owner
Responsible for reviewing right-sizing	Weekly	Cost optimization admin
Responsible for reviewing under-utilized resources	Weekly	Review optimization
Responsible for reviewing unused RI capacity	As detected	Cost optimization admin


Roles

+ New Role


☒ Budget owner




☐ Cost optimization admin



☐ Review optimization



☐ Cost optimization admin



Not all workloads are created equal.

In some workloads, you might optimize cost.
In others, you might **prioritize SLA.**

nOps workload view



Workloads

Create workloads to group resources and start assessments or see reports



+ Create New Workload

East-Payments-Prod

Last updated: 4 hours ago

HIPPA

PCI

SECURITY ISSUES

571

↓ -41 than previous month (612)

COST ISSUES

1,124

↓ -26 than previous month (1,150)

RELIABILITY ISSUES

399

↑ +9 than previous month (390)

OPERATIONS ISSUES

164

↓ -2 than previous month (166)

SECURITY ISSUE

21

↓ -6 than previous month (27)

Compute

Storage

Containers

Networking

OTHERS

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OTHERS

Automatically create workloads.

Using ML to **define workloads**, create cost and security controls, and enforce a robust cloud tagging policy



James Wilson
VP, Engineering
nOps

The truth about Cloud Infrastructure

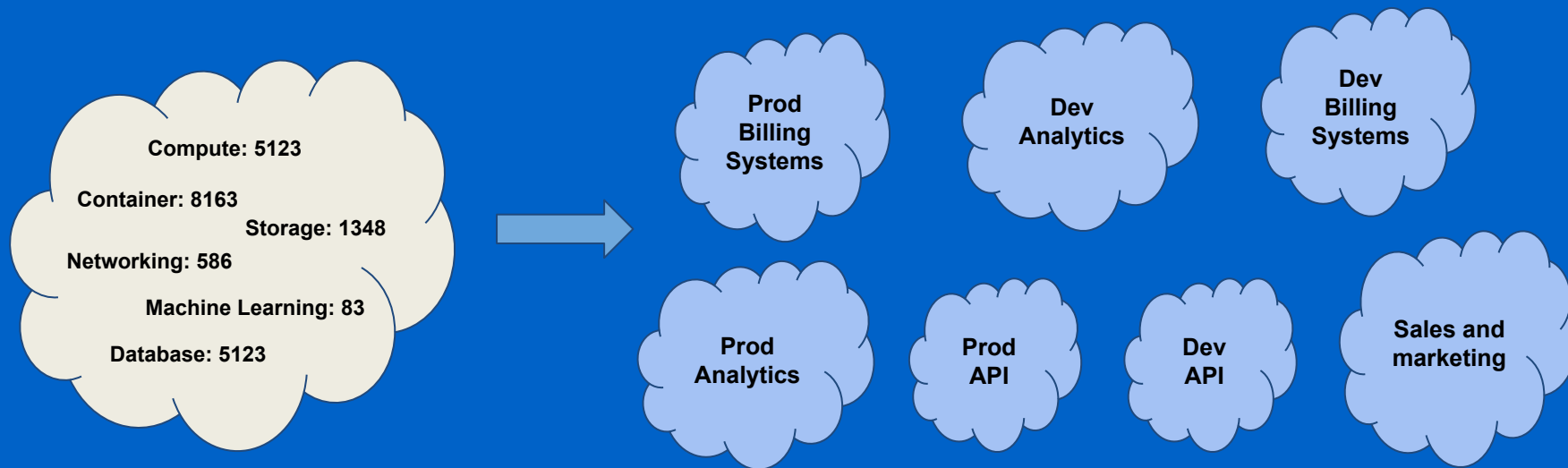
- Cloud environments evolve over time
- Humans will follow best practices when it's easy
- The best laid tagging strategies will always still lead to inconsistent results
- Perfection is easier to model in a green field - most organizations don't have that luxury



Let nOps analyze your cloud environment...

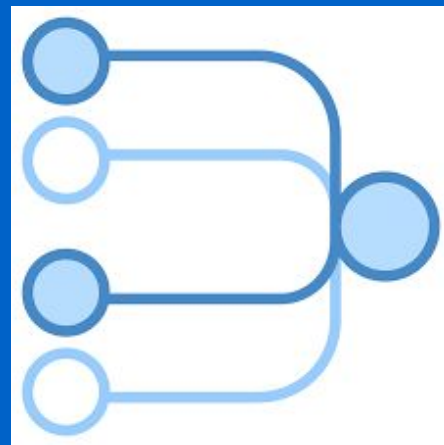
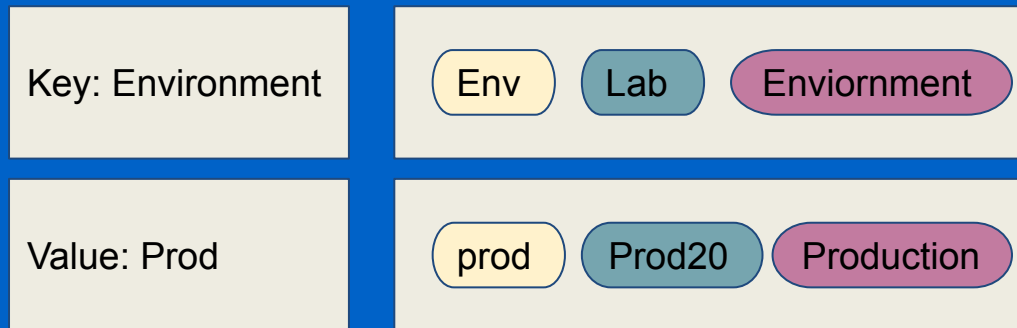


nOps will auto-detect your workloads.



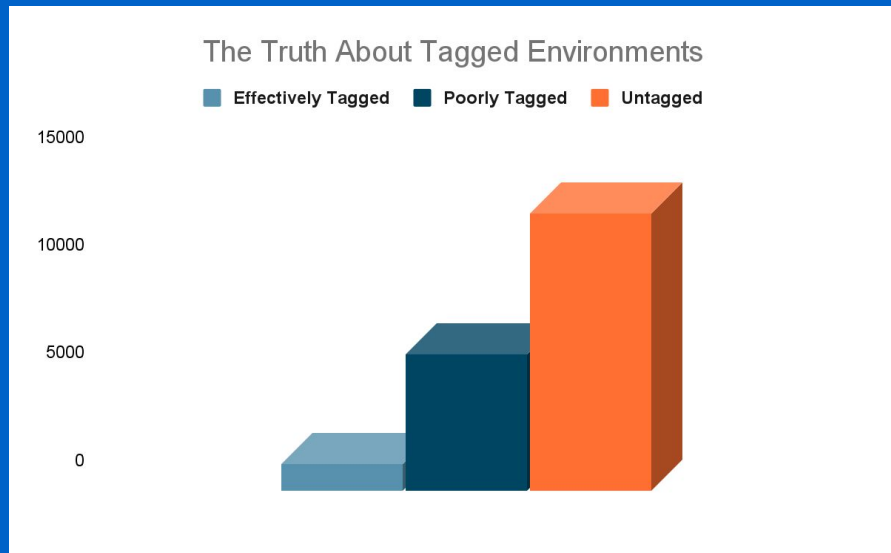
Normalize tag inventory and build strong policies

nOps uses ML to detect and correct tag anomalies.



Untagged Resources

Cloud environments have thousands of untagged resources.



ebs ebs snapshot

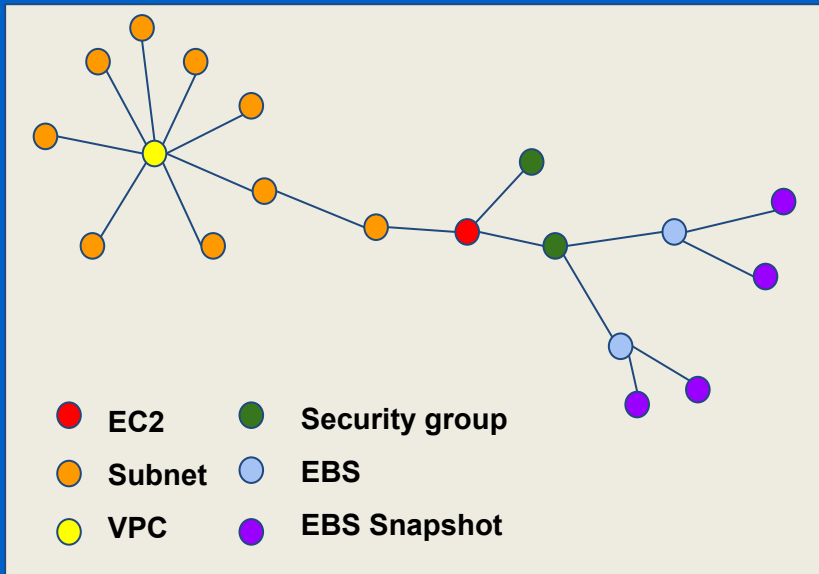
security group
lambda

subnet
iam_role

vpc

Automatically Assign Untagged Resources

nOps uses relationship networks to classify and align resources to your business.

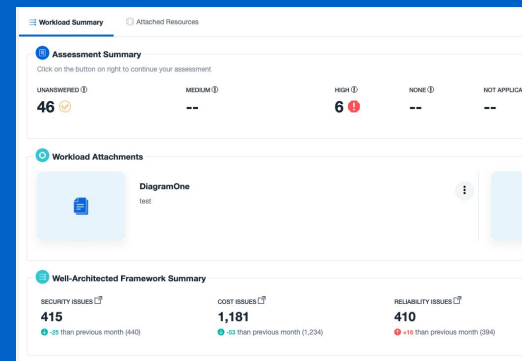
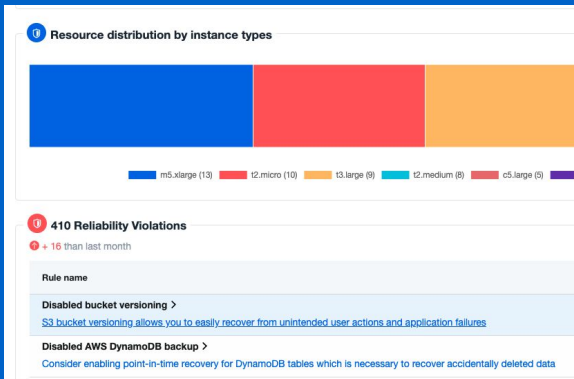


Impact of Relationship Networks on Managed Resources



nOps Workloads Align Resources to Business

nOps will align your team to operationalize and build accountability around every workload resource



Next steps

Free Workload Assessment with nOps

- Identify high-risk issues (HRIs) immediately.
- Optimize AWS costs – typically 18-50% cost savings.



Q&A

Thank **You**