

Take Back Control - Operating Applications on AWS

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How did we get here?

- What resources make up my application?
 - Define the resources that represent your application
- Are my resources and applications healthy?
 - Visualize and track the state of your running applications.
- Do I have what I need to make sure my applications stay healthy?
 - Safely remediate infrastructure issues, incl. on-host, container-based or serverless.

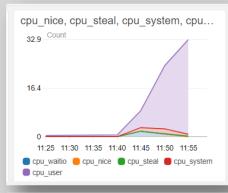
The pursuit of operational excellence

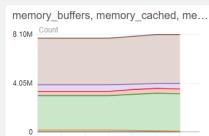


Operate Safely and At Scale

AWS Systems Manager helps you shorten the mean time to detection and resolution of operational issues.

- ✓ **Group** the building blocks of your applications
- ✓ Visualize operational insights for applications
- ✓ Act using AWS best practices with built-in safeties

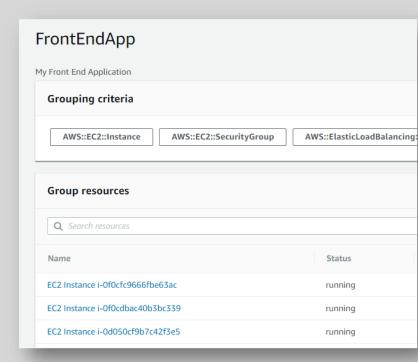


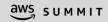


AWS Resource Groups – Group Resources

Define the building blocks of your application

- AWS Resource Groups v2 just launched
- Search AWS resources based on tags using a simple query
- Save a search as a heterogeneous group of (dynamic) resources
- Create hierarchies that reflect your actual working structures





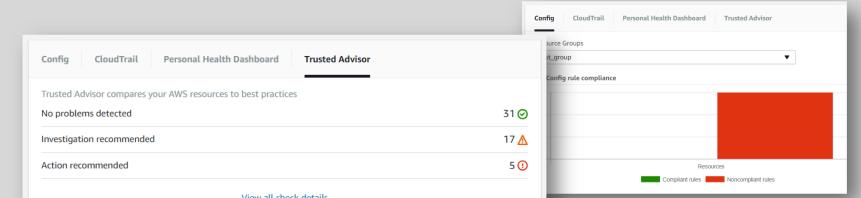


Grouping Resources Demo

Integrated (cross-service) Insights

Gain operational insights

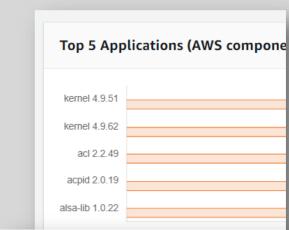
- View recent API calls through AWS CloudTrail
- View recent configuration changes through AWS Config
- View recent events through AWS Personal Health Dashboard
- View recommendations through AWS Trusted Advisor

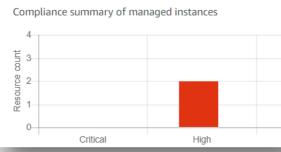


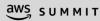
Track Software Inventory and Compliance

Amazon EC2 Instances and On-Premises Servers

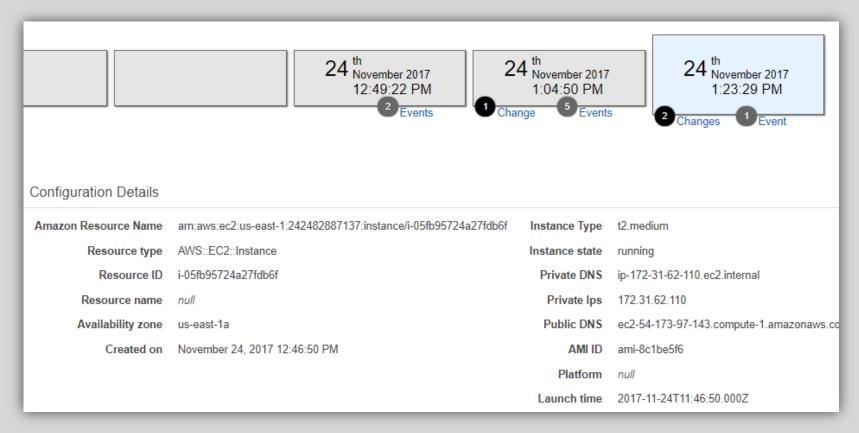
- □ Track on-host software inventory like application packages, file meta-data, network configuration, OS details, etc.
- ☐ Define on-host configuration and software compliance checks.
- ☐ Track configuration drifts like OS changes, files,







Track Software Inventory Over Time





Gathering Operational Insights Demo

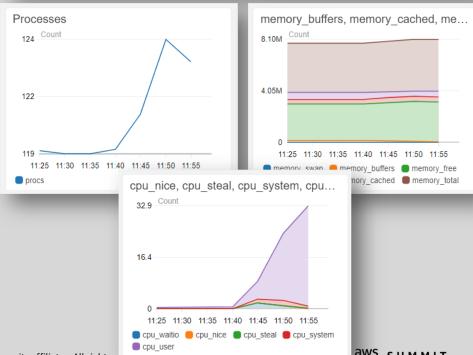
Build your own operational dashboards

Setup operational dashboards

- Build your and customize your own ops-dashboards
- Leverage your existing Amazon
 CloudWatch dashboards
- Leverage your existing CloudWatch metrics
- Visualize your application's metrics

Front End Fleet

Please reach out to John Mcclane for additional info on the fleet





Building Operational Dashboards Demo

Taking Action

Take action using AWS Systems Manager

- ☐ Automate manual tasks into repeatable steps
- ☐ Constrain or delegate to authorized users
- ☐ Set up execution triggers through CloudWatch Events

Perform bulk operations with built-in safeties

- ☐ Run against resource groups or tags
- ☐ Velocity controls, error thresholds and approval actions



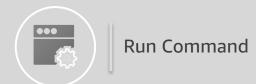
Kull Collilland

Patch Manager

Maintenance Windows

State Manager

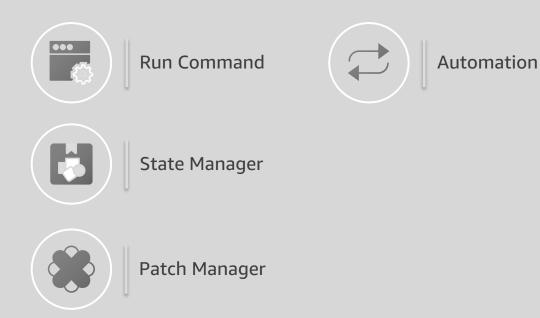
Take Reactive and Proactive Action



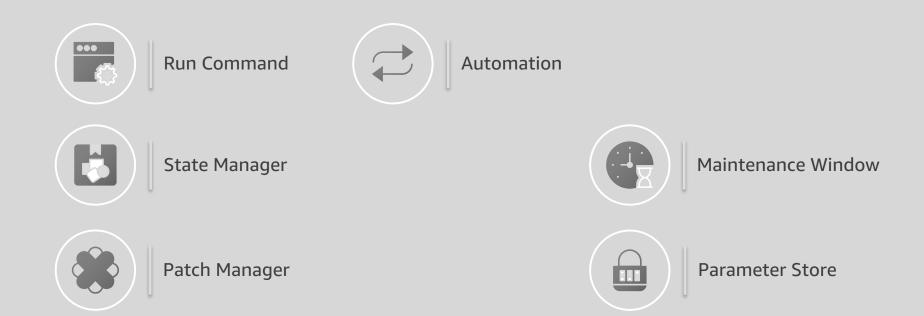




Take Reactive and Proactive Action



Take Reactive and Proactive Action





Taking Action Demo

AWS Systems Manager Customers & Partners





















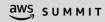




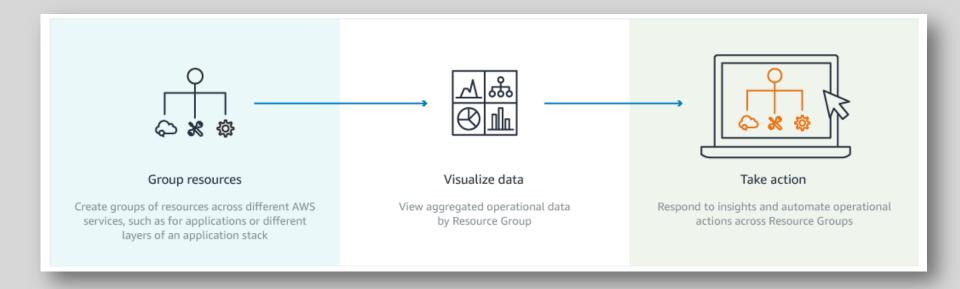








AWS Systems Manager Gain operational insights and take action



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