AWS re:Invent

MGT220-P

Centralize control & visualization of your multi-account environments

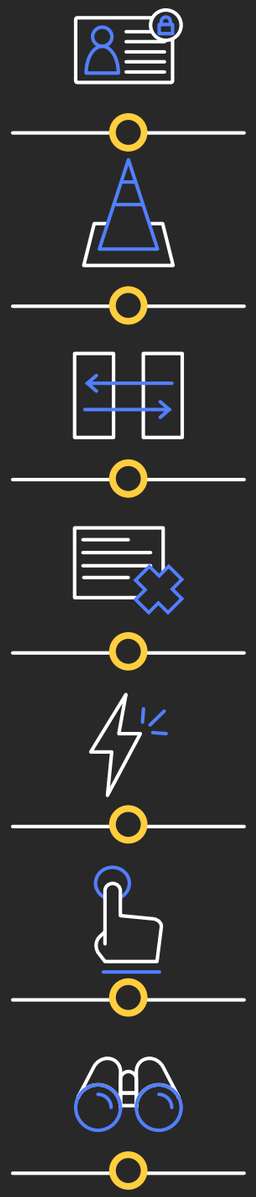
Sam Hennessy
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AWS re:Invent

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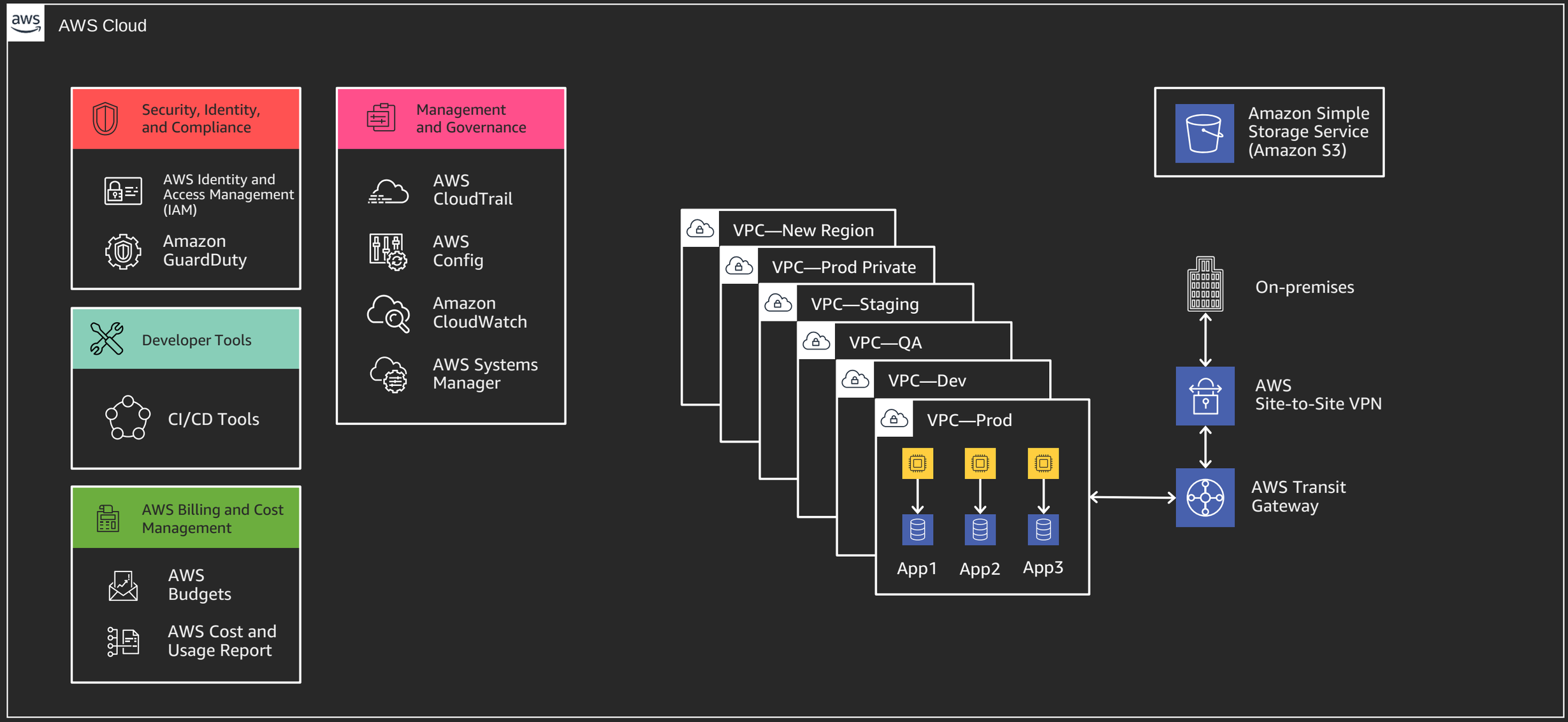
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Agenda



- Typical starting point (one account)
- Challenges to this approach
- Migrating to multi-region, multi-account
- New set of problems to manage
- Introducing AWS Systems Manager Explorer
- Demo
- How other management tools fit into the picture

Where it all begins . . .



Challenges to a single-account approach



Account limits



Governance/
operational/
cost visibility

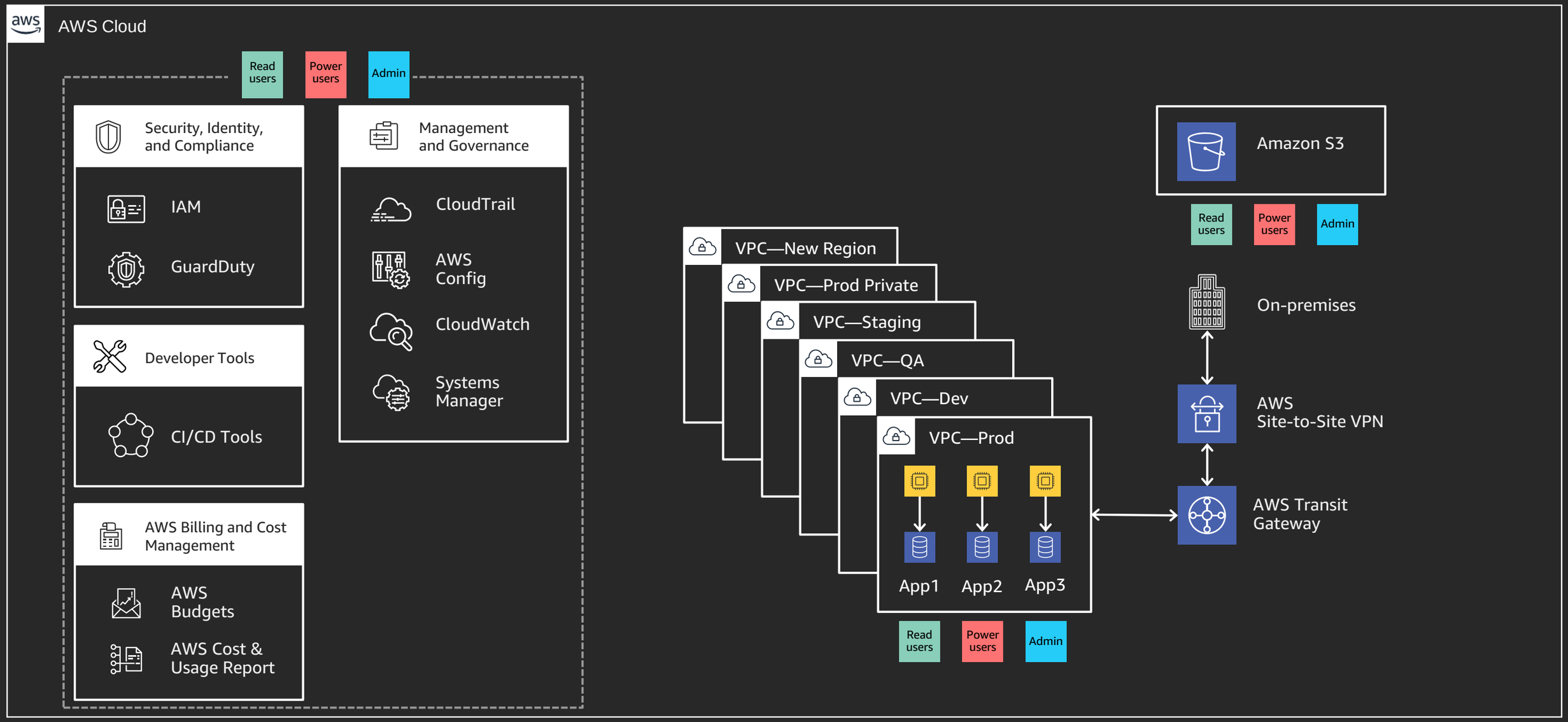


Permissions



Blast radius

Single-account permissions





$> cat ~/.aws/credentials

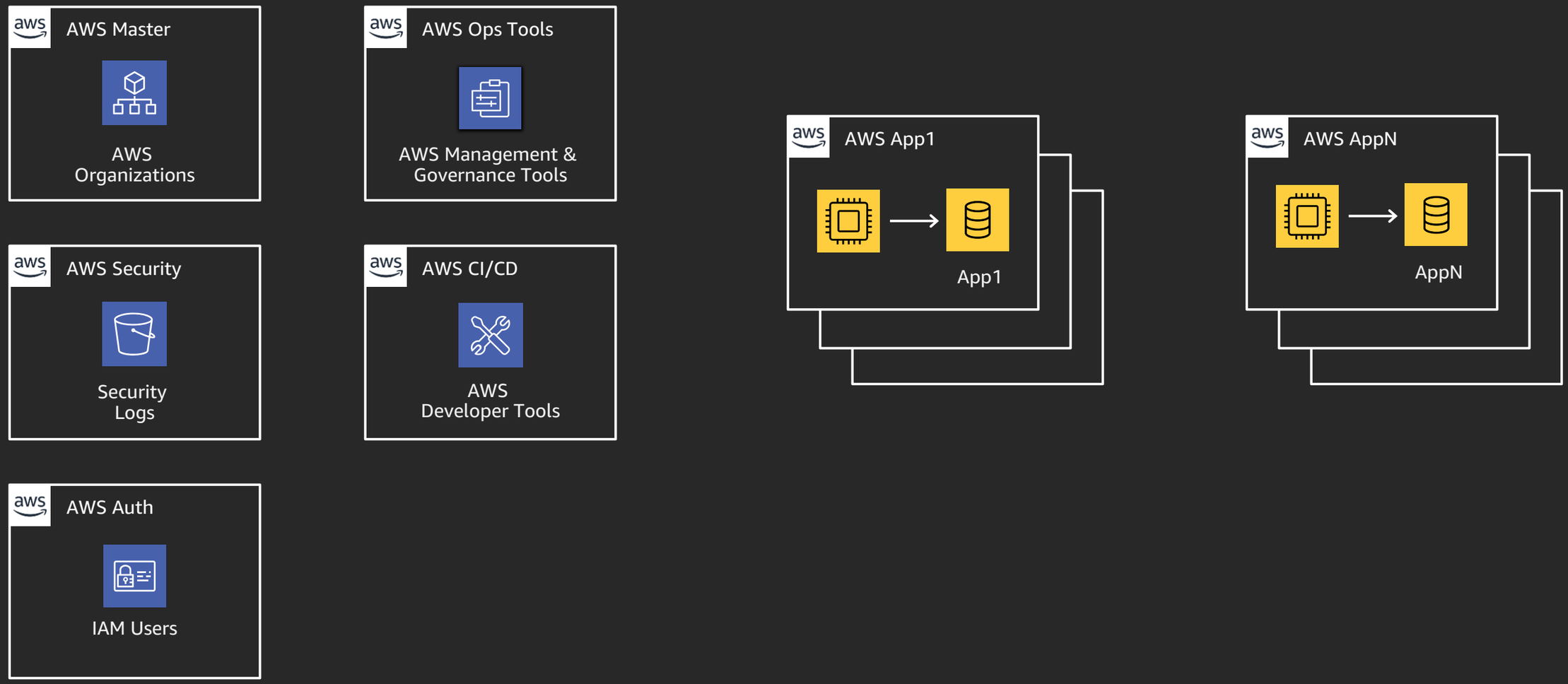
Blast effect impact

AWS Cloud

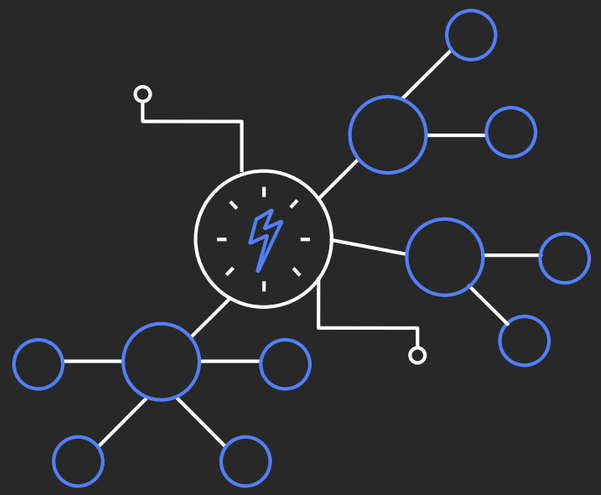
Launch executions against fleet

Modification in case of resource creation (Bitcoin mining)

Let’s do this multi-account thing

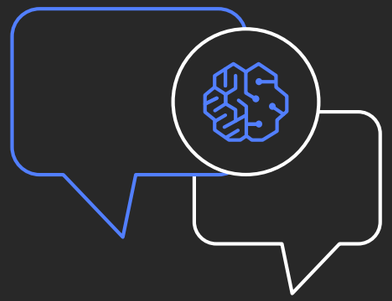


New solution, new challenges



Decentralized tools for a centralized problem

- AWS Config
- Systems Manager
- GuardDuty
- CloudWatch
- IAM
- AWS Budgets
- Organizations
- Etc.



Introducing AWS Systems Manager Explorer!

Visualize and prioritize actionable items

Trendlines provide insight into operational issues over time

Group data based on business unit, account, or Region

Aggregated operational view

Centrally report on operational issues across accounts and Regions

View data from across AWS services in a single dashboard

Notify stakeholders of required actions via SNS with operational issue reports

Demo

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Some other multi-account tips and tricks

Amazon EventBridge



Event bus system, push items across accounts and Regions, create a pub/sub pattern to central location

Systems Manager



Control system for OS level and resource level across accounts and Regions

AWS CloudFormation



Provision infrastructure through AWS CloudFormation StackSets across accounts and Regions

Amazon S3



Cross-region replication to move data across accounts and Regions

Recap



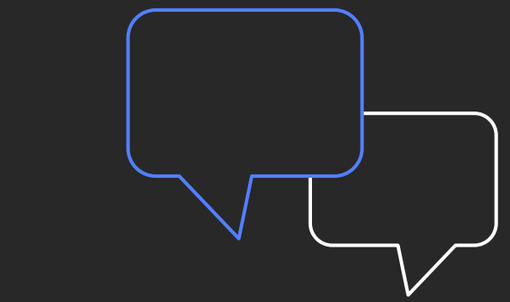
Start thinking about your multi-account strategy as early as possible



Set up centralized governance and tooling as a service downstream accounts can consume in a self-service manner



Aggregate data into a single location for ease of visibility and response



Let’s talk

Join us at the AWS Management Tools Booth in the main Expo Hall.

Thank you!

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