
AWS
re:Invent
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Let’s build a self-service developer portal

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Where are we today?

- Leveraging the cloud and managed services
- Using modern technologies
- Taking advantage of infrastructure as code
- Leveraging pipelines in some form
- Modern application development approaches

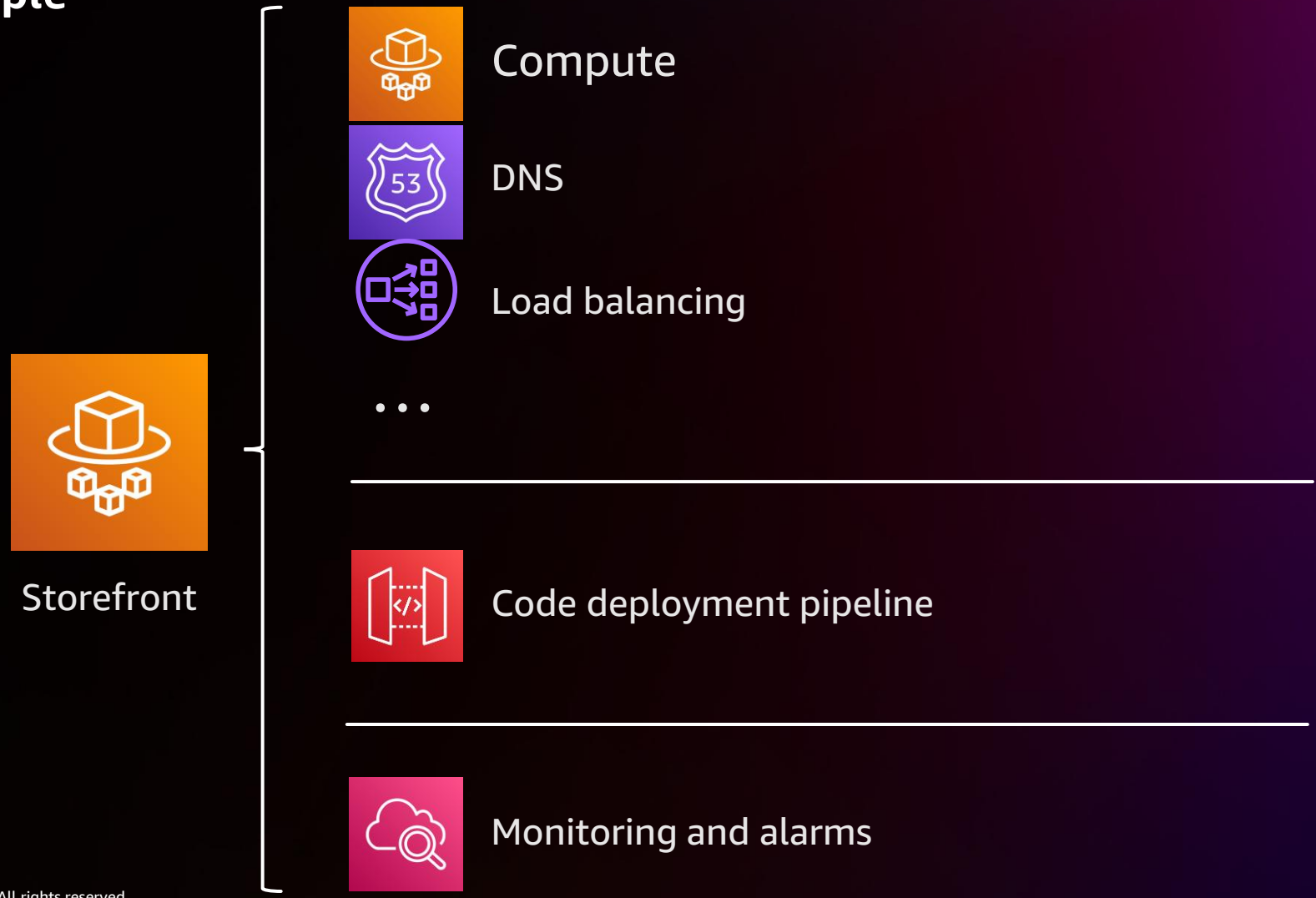




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What we hear from our customers

“Simple” is not so simple



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What we hear from our customers



We want developers to focus on applications not infrastructure



We want to standardize on modern application tools and best practices



We need to implement guardrails and establish controls

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Modern DevOps: What does good look like?

Challenges + solutions

Challenges	Solutions
Developers wait days/ weeks for infrastructure to be provisioned	Developers provision infrastructure on demand and deploy in minutes
Software is manually deployed on an ad-hoc basis	Software delivery is automated via continuous delivery pipelines
Security is configured ad hoc for each application	Security best practices are baked into every application and service
Developers lack visibility into applications running in production	Applications are fully instrumented for metric and log collection
Tooling is inconsistent across teams and business units	Organizations standardize on tools and best practices











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What we see from customers practicing DevOps

- Building their own abstractions
- Creating mega pipelines
- Heavy automation, lots of code
- Central template repos
- Copy paste from existing codebases
- Creating modules/libraries for reuse



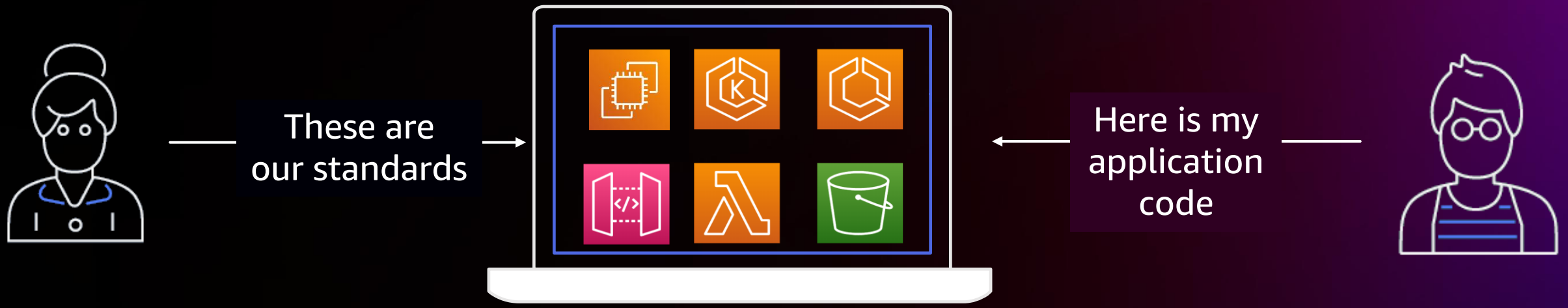




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What is a self-service developer portal?



- ✓ Compliance
- ✓ Consistency
- ✓ Reduced time to market
- ✓ Within budget

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Application management as a spectrum

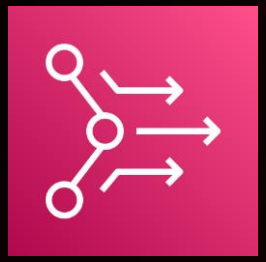
PaaS

Platform as a service



- Flexibility & control ↓
- Developer productivity ↑

Ideal



- Flexibility & control ↑
- Developer productivity ↑

IaaS

Infrastructure as a service



- Flexibility & control ↑
- Developer productivity ↓

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AWS Proton

Increase control over your cloud infrastructure,
accelerating the pace of innovation for your development teams



Infrastructure operators

Create application infrastructure templates



AWS Proton

Monitor and update deployments



Development teams

Find and deploy application infrastructure

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Why use AWS Proton?



Self-service interface for developers



Centralized management and visibility



Version control for templates



One-click upgrades to new versions



Infrastructure pipelines



Third-party integrations

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Simplifying platform operations

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Simplifying developer enablement

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Get started!

Proton Workshop: http://protonworkshop.com

Proton Roadmap: https://github.com/aws/aws-proton-public-roadmap

Sample Templates

- CloudFormation: https://github.com/aws-samples/aws-proton-cloudformation-sample-templates
- Terraform: https://github.com/aws-samples/aws-proton-terraform-sample-templates
- CodeBuild: https://github.com/aws-containers/proton-codebuild-provisioning-examples

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Thank you!

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