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DevOps is the union of people, process, and products to enable continuous delivery of value to our end users

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• We had the business that wanted to deliver value to the end users
 • Developers wanted to create new features through lots of change
 • IT Operations wanted to ensure availability and stability which is best assured through minimizing changes

As the name DevOps implies its about bringing the teams together
 In bringing together this will require new processes which is best facilitated through the proper tooling
 It is a continuous cycle to ensure continual delivery of value
 Shift in application architecture and hosting

Process and the project manager is a big piece of that continuous cycle

Waterfall used to be very popular as large, dependent phases

Today more organizations move to agile mindset

There are then different frameworks of agile



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GIT AND CI/CD · Constant, incremental value means new ways of Git for source/version control that enables concurrent development · Continuous Integration to find bugs, incompatibilities early Continuous Delivery and Deployment to deliver the value Secret handling 13

IMPORTANCE OF MONITORING Monitoring is always important to make sure some production system is behaving For DevOps almost more important is monitoring of the interactions and user • New tools and telemetry may be required • Key Performance Indicators (KPI) definitions

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INFRASTRUCTURE AS CODE Self-service is a key aspect to agility • Do not want to create services via portals • Infrastructure as Code (IaC) enables your resources to be defined as code • These are typically declarative and idempotent Use in pipelines GitOps enables a repository to become the central point of configuration and desired state pulled by infrastructure and deployed



questions?

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