

Many Faces of DevOps
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combination of software development with IT operations mgmt.

GOAL:

data-driven, automated, lifecycle mgmt. and no "on-call" for operations

more appetite now
 at S.U. than previously
 to retire services.
 SMTP? AFS?

→ there is some
 skepticism.

↳ outsourced to
 service provider experts.

to do this
 services
 must be...

- Documented
- monitored
- self-healing

"if you can do it, you can document it.
 if you can document it, you can automate it"

Take DevOps assumptions into your project plans.
 Can be challenging to introduce to executive-level stakeholders.

Cloud — container space evolving rapidly (huge improvements in AWS
 container options). → Google still more economical for Kubernetes cluster.

How to go serverless

- no java.
- not for everything — complicated can really throw curveballs to lambda
 or serverless architecture.
- SUL / RIALTO the largest serverless on campus project.

NETDB could better support lambda'z → save group using CloudFront instead.

TOOLS

CI / CD → ADAPT, ASB, etc. using code.s.e.

API Gateway

code.stanford.edu (revision control,
 partial CI/CD)
 bring your own runner.

chrome.svc.stanford.edu

CI/CD runner, but not hooked into code.s.e.

Vault.stanford.edu → secrets management (son of wallet)
 not rolled out much beyond MIT, but could be (ask!)
 needs self-service automation.

Dashlane for secrets mgmt (campus license)

In retrospect, JBickar wouldn't
 migrate all those bits to
 Acquia — he'd do a rebuild per site
 (like DT → DT)