



Europe 2023

USING DEVSPACE TO USHER IN AN ERA OF PEACE FOR OUR DEVELOPERS

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Europe 2023



Software Engineer

Specialize in Cloud computing

Site Reliability Engineer -> Developer Experience

DEVELOPER CHALLENGES OVERVIEW





LOCAL SETUP HASSLES

LONGER CYCLE TIME

MANUAL END-TO-END TESTS

Time

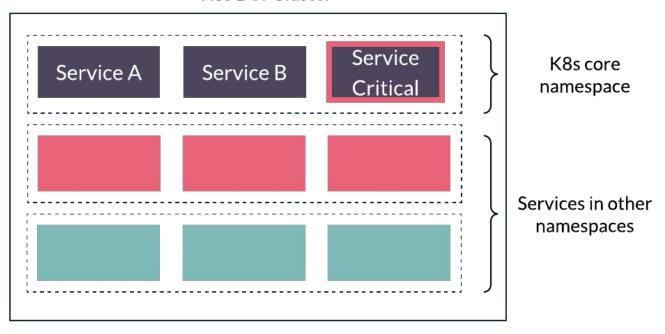
Happiness

K8s Development (Dev) Cluster



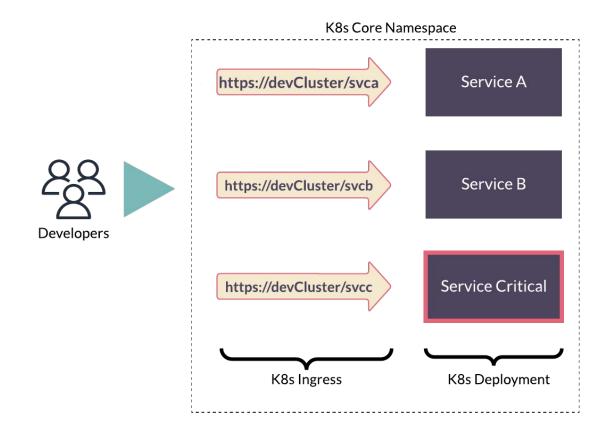
→ Dev cluster shared by Developers

K8s Dev Cluster



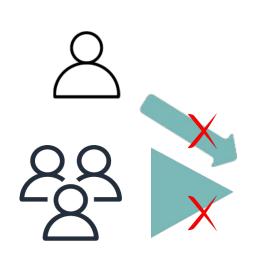
K8s Core Namespace

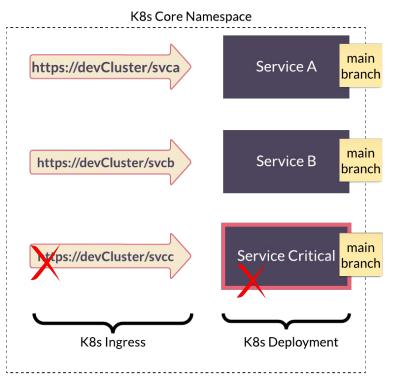




DEPLOY TEST BRANCH TO DEV CLUSTER









BAND-AID SOLUTION: GOOGLE CALENDAR!



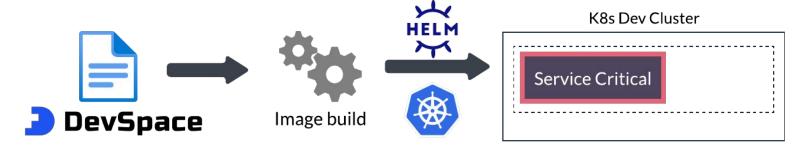




DEVSPACE OVERVIEW



- → CNCF project
- → Docker-compose for K8s
- → Command line tool to develop and deploy apps on K8s clusters
- → Abstracts K8s functionalities



DEDICATED EPHEMERAL TESTING ENVIRONMENTS



- Dedicated ephemeral testing environments via devspace
 deploy for core services
- **→ Dependency** feature deploys multiple services

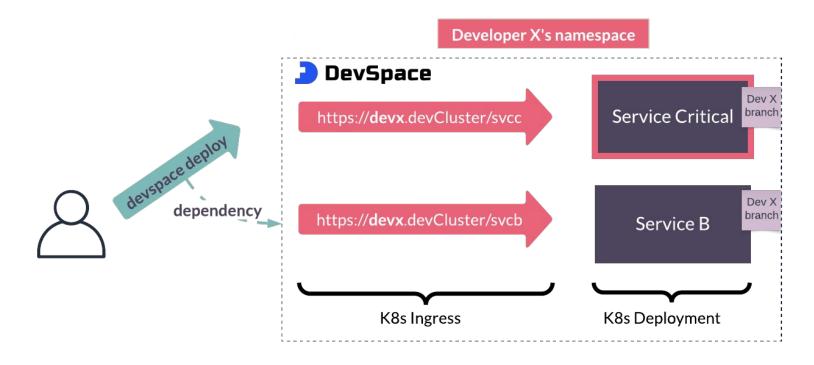
```
$ git clone <repo url>
$ devspace create space YOUR-UNIQUE-NAME
$ devspace deploy
```

DEDICATED EPHEMERAL TEST ENVIRONMENTS (CONTD.)



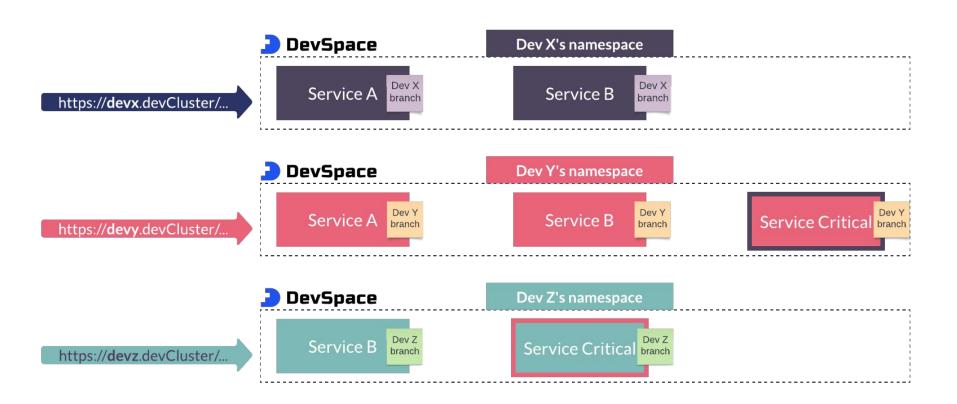
V

Developer deploys Service Critical and Service B on unique namespace



DEVSPACE FOR DEPLOYMENTS





EPHEMERAL TEST ENVIRONMENT BENEFITS









DEVELOPER EXPERIENCE JOURNEY



LOCAL SETUP HASSLES Happiness LONGER CYCLE TIME MANUAL END-TO-END **TESTS**

Time

LOCAL ENVIRONMENT SETUP





LOCAL ENVIRONMENT SETUP CHALLENGES







OUTDATED DOCUMENTATION



WORKS-ON-MY
-ENVIRONMENT
SYNDROME



DEVSPACE DEVELOPMENT MODE



- Deploy remote development environment on K8s cluster via devspace dev
- Syncs local files to pod
- Hot reloads service
- Connect Integrated Development
 Environment (IDE) with remote debugger

```
$ git clone <repo url>
$ devspace create space ...
$ devspace dev
```

REMOTE DEVELOPMENT BENEFITS



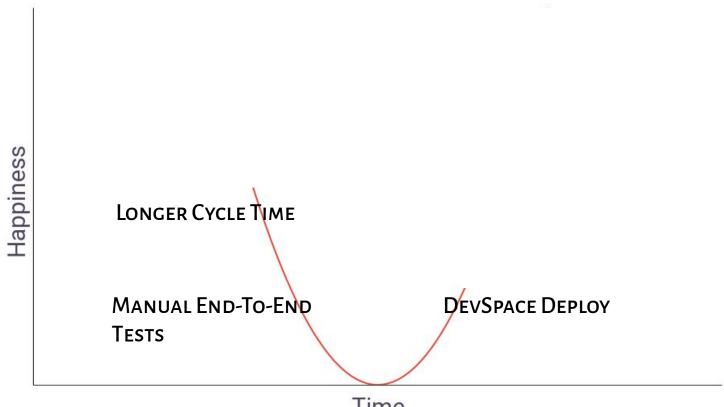






DEVELOPER EXPERIENCE JOURNEY



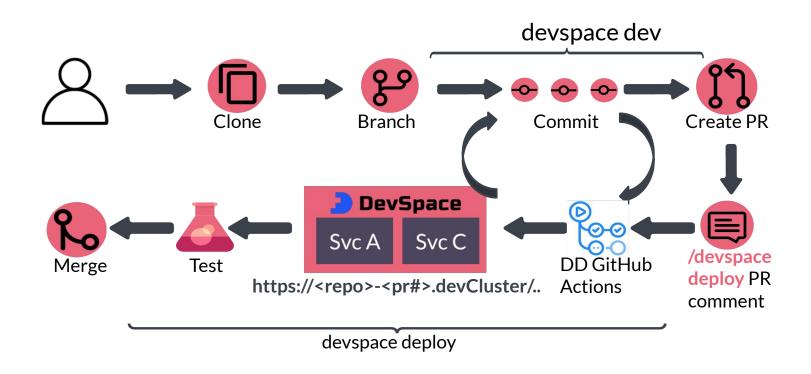


Time

DEVSPACE DEPLOYMENTS FOR PULL REQUESTS (PRS)



DevSpace deployments as part of continuous integration (CI) workflow



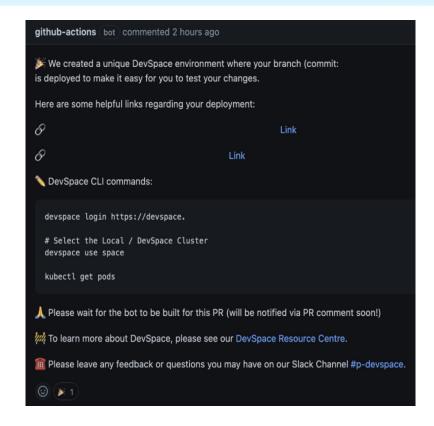
DEVSPACE DEPLOYMENTS FOR PRS BENEFITS



PART OF CI WORKFLOW

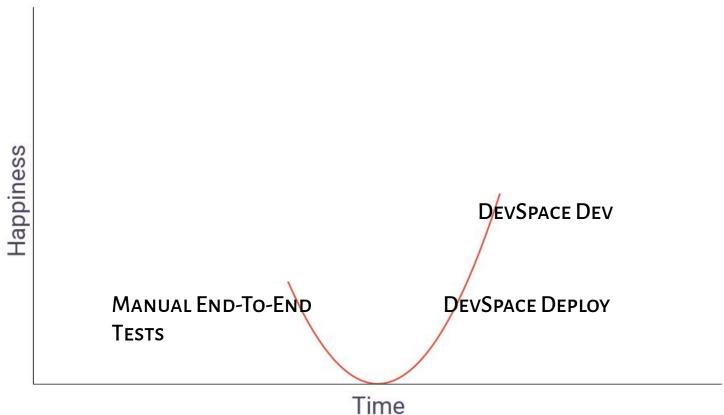






DEVELOPER EXPERIENCE JOURNEY

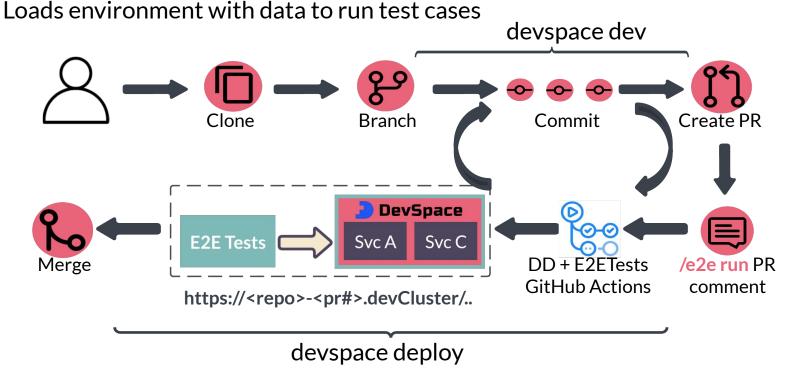




END-To-END TESTS + DEVSPACE DEPLOYS FOR PRS



- ➡ End-to-end (E2E) tests with DevSpace deployments on PRs



E2E TESTS + DEVSPACE DEPLOYS FOR PRS BENEFITS



AUTOMATED E2E TESTS SETUP AND EXECUTION

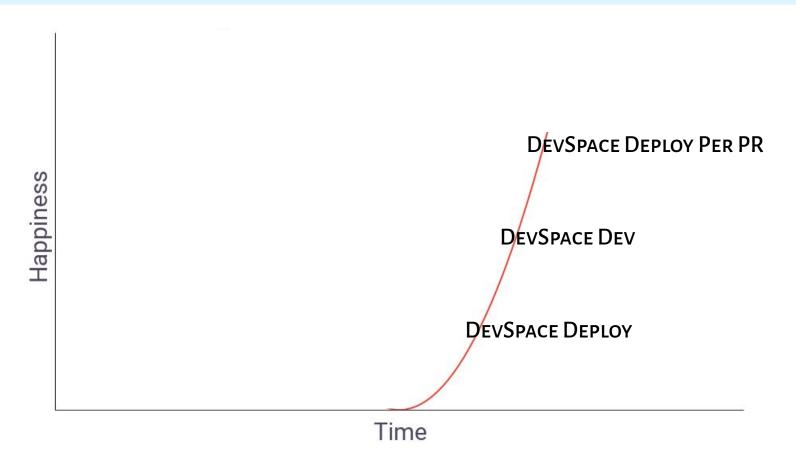
ON-DEMAND TESTING CAPABILITY





DEVELOPER EXPERIENCE JOURNEY





ROLLOUT





2 quarters with 2 engineers







ROLLOUT LESSONS





Not enough communication and feedback



- Better visibility of DevSpace deployments
- Champions for teams
- DevSpace experts on teams to take ownership
- Dedicated support Slack channel
- Support from Loft Labs (maintainers)

RECEPTION







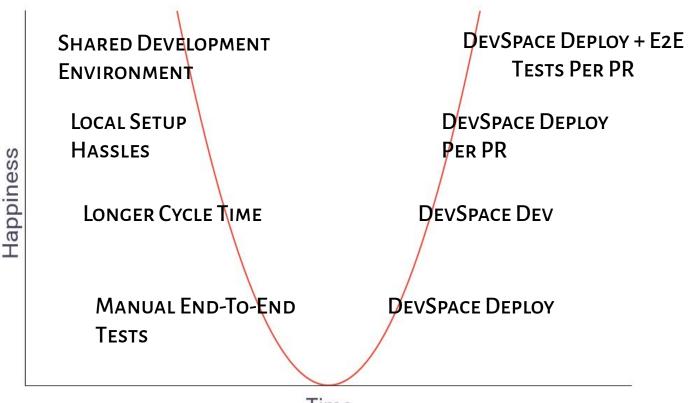




Standardize new developer workflows across other services

DEVELOPER EXPERIENCE JOURNEY





Time







Europe 2023 ——



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