

Mit Platform Engineering die Produktivität von Entwicklern verbessern

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Driving business performance through software development by empowering developers, creating the right environment for them to innovate, and removing points of friction.

azure.com/developerverLOCITY



By 2026, 80% of software engineering organizations will establish platform teams!

Gartner ranks Platform Engineering as top technology trend in 2023.

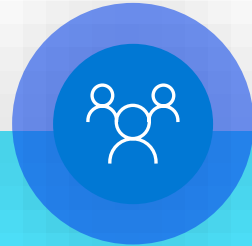
Definition:

[Platform engineering](#) is the practice of building and maintaining the underlying infrastructure and tools that support software development, deployment, and delivery.

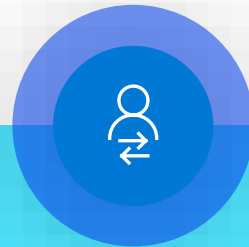
Common pain points in software engineering



Time spent
onboarding new
projects



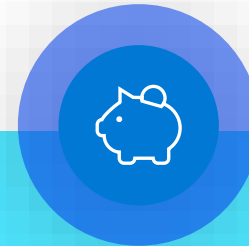
Limited reuse
and
collaboration
across teams



Slow to adopt
new tools or
technology



Difficulty to
meet governance
and security



Manage costs
across projects

What is state of the art in software engineering

	Top Enterprise Customer	Top Division at Tech Company	What can we achieve?
Setup Environment	3 days	2 days	<1 minute
Test Code Change	14 days	4-8 hours	10 minutes
Merge New Code	3-5 days	2-3 days	30-60 minutes
Deploy to Production	5 days	0.5-1 day	1-2 hours

Challenges

Keep all development resources secure while allowing flexibility

Share/adopt common services and architecture across teams

Collaborate with inconsistent tools

Onboarding new projects or new employees in a timely manner

Optimize costs across various tools, vendors, and teams

Platform Engineering



Developer Teams



use

central engineering platform

Reusable Components



Developer Tools



Self-Service



provide

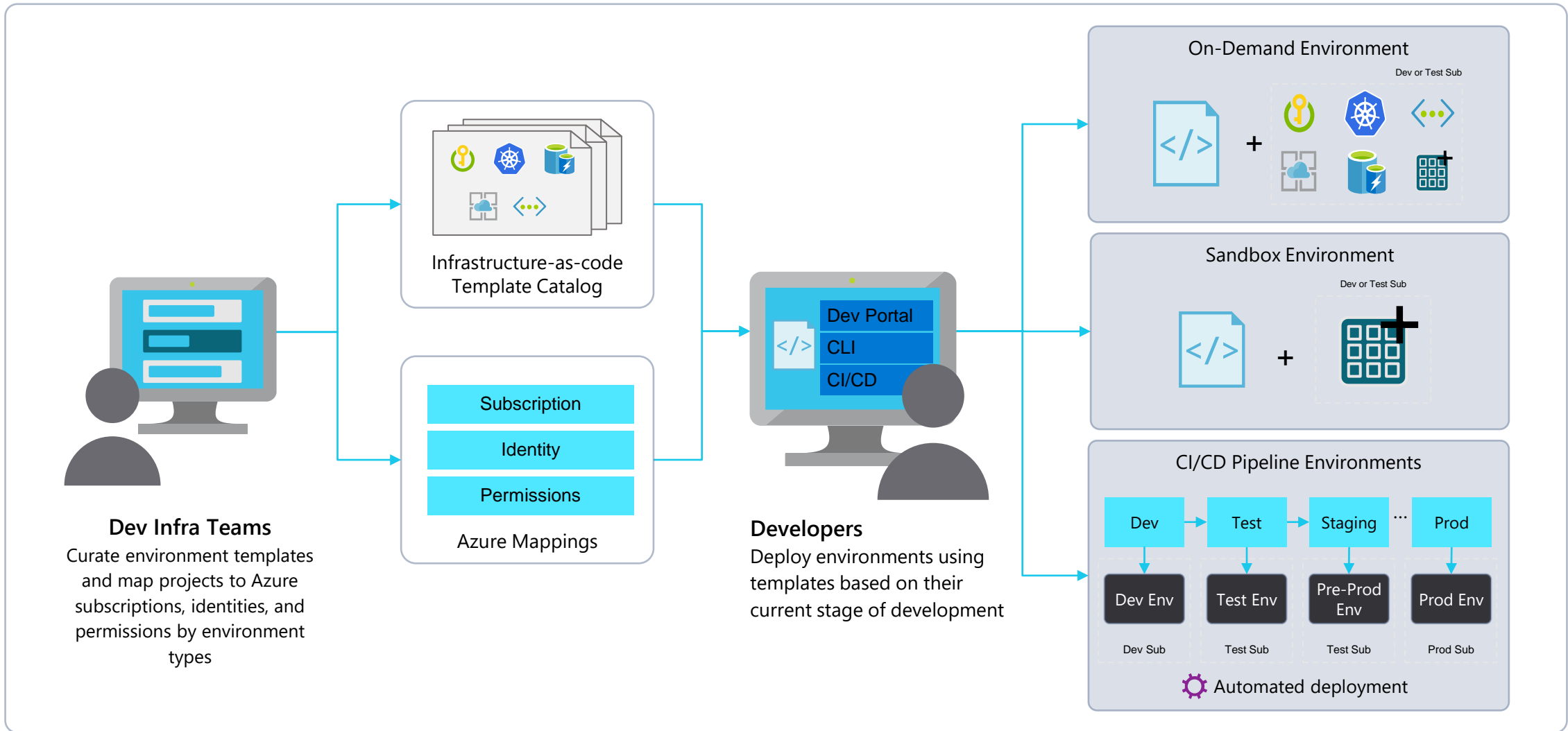
complex infrastructure



DEMO: PART 1

PLATFORM ENGINEERING TEAM

Setting up the Azure DevCenter





What is Microsoft Dev Box good for?



Developer onboarding

Get devs up and running with ready-to-code, preconfigured dev boxes



Complex configurations

Empower devs to deploy multiple workstations tailored to different tasks



Legacy applications

Quickly spin up dev boxes built for troubleshooting legacy apps



Remote dev experience

Ensure a low-latency, high-performance dev experience wherever they are in the world



Security and compliance

Centrally manage dev devices and keep them secure across locations



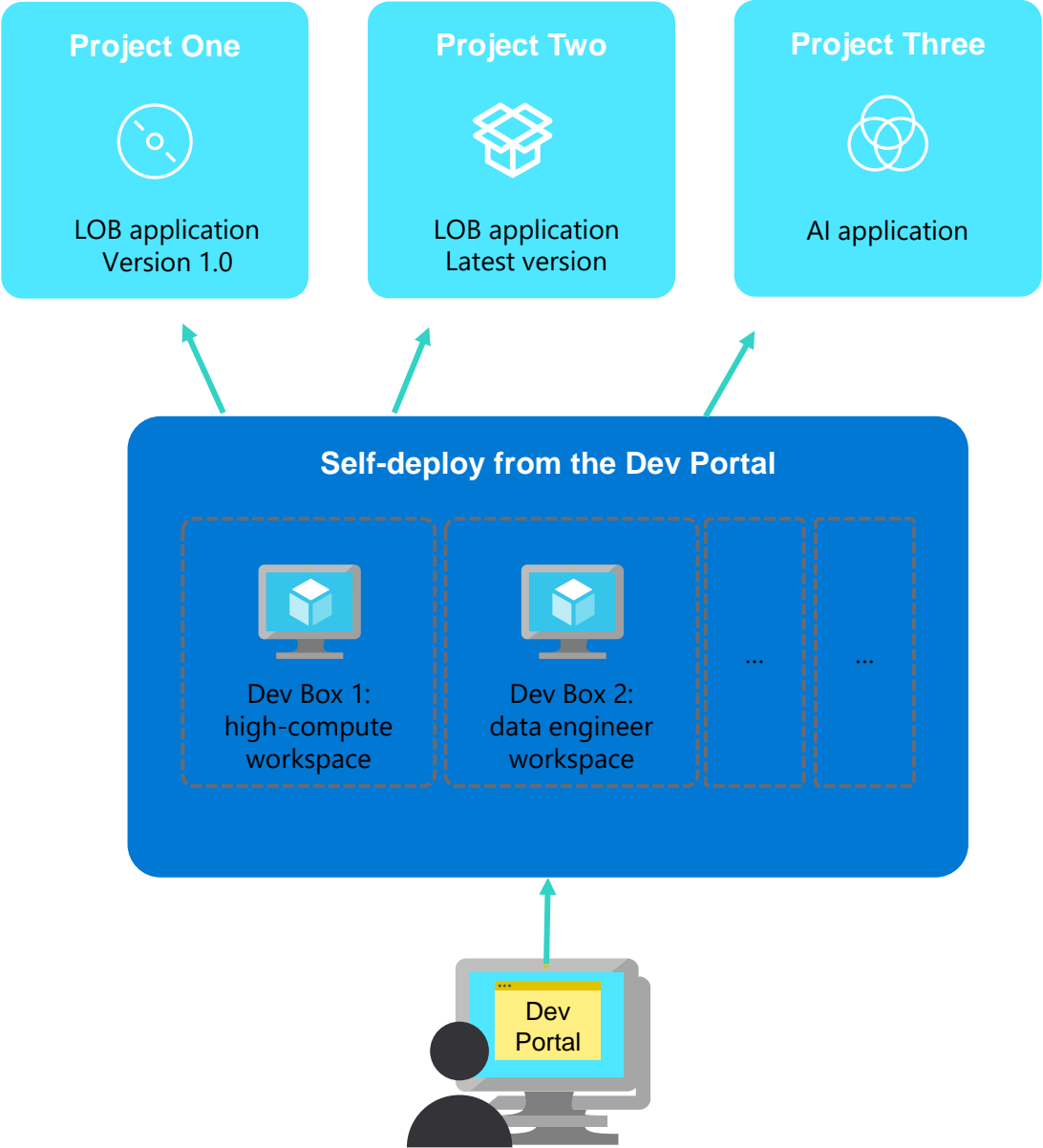
User permissions

Provide different permissions for contingent staff and fulltime devs

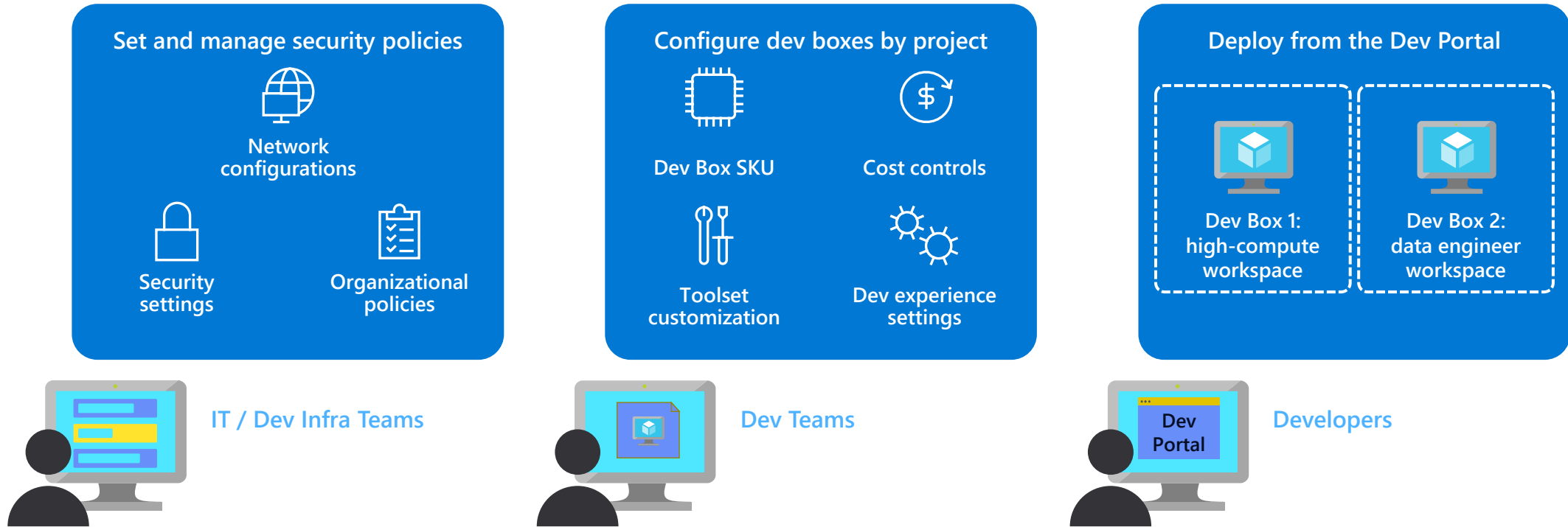
DEMO: PART 2

IT / DEV INFRA TEAM

& DEV TEAM LEAD



How different roles use Microsoft Dev Box



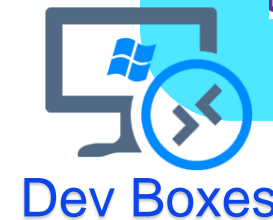
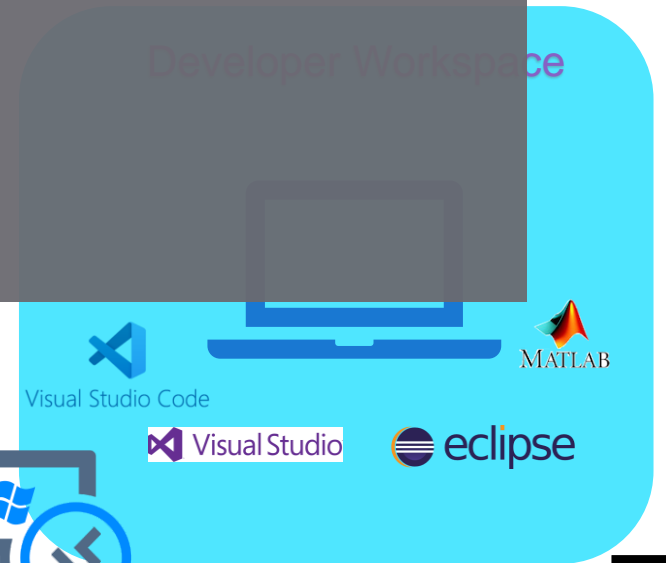
Mercedes Benz embraces cloud to innovate faster



Self-service of GitHub Copilot, provided by central engineering platform



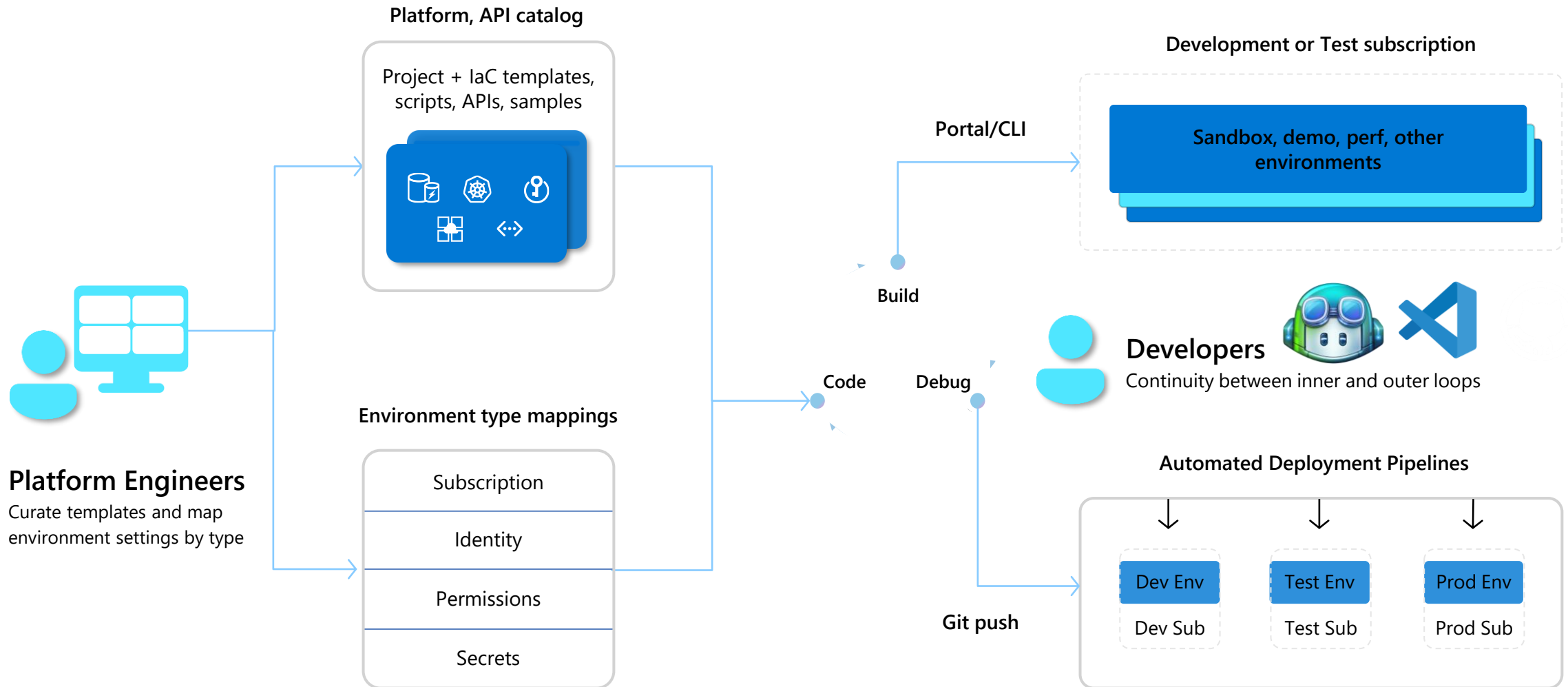
DevTest
Labs



DEMO: PART 3

DEVELOPER

Empowering developers through end-2-end platform engineering



← Build and Deploy

✓ new items in list #33

Re-run all jobs



Summary

Jobs

- ✓ build-app
- ✓ deploy-infra
- ✓ deploy

Run details

- Usage
- Workflow file

Triggered via pull request 5 days ago
sebafo opened #3 items

Status	Total duration	Billable time	Artifacts
Success	5m 43s	7m	1

deployWebApp.yaml
on: pull_request



Artifacts

Produced during runtime

Name	Size
node-app	1.75 MB

← Build and Deploy

✓ new items in list #33

Re-run all jobs



Summary

Jobs

- ✓ build-app
- ✓ **deploy-infra**
- ✓ deploy

Run details

Usage

Workflow file

deploy-infra

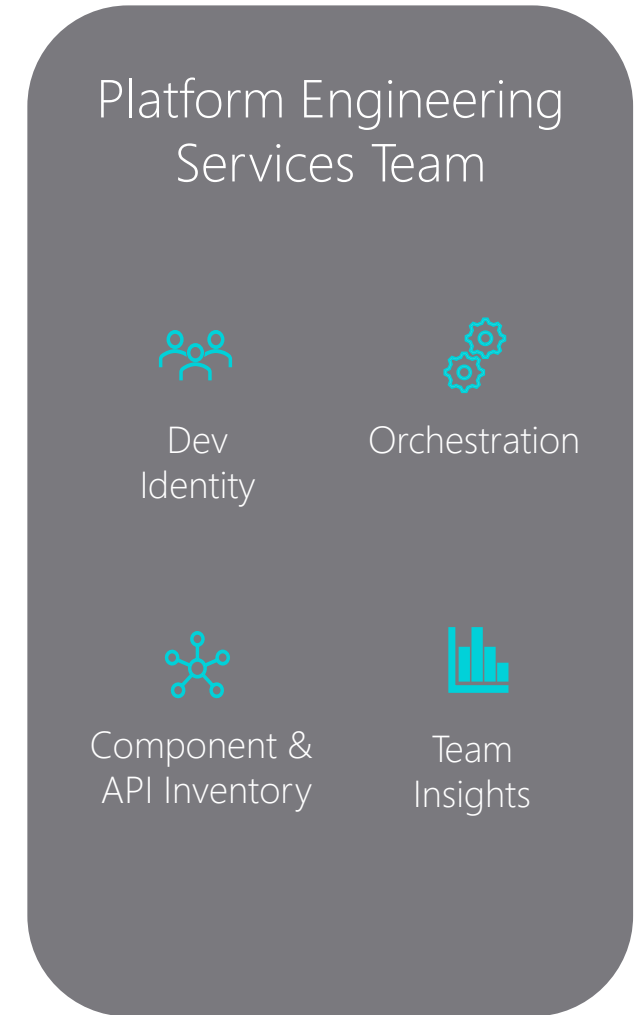
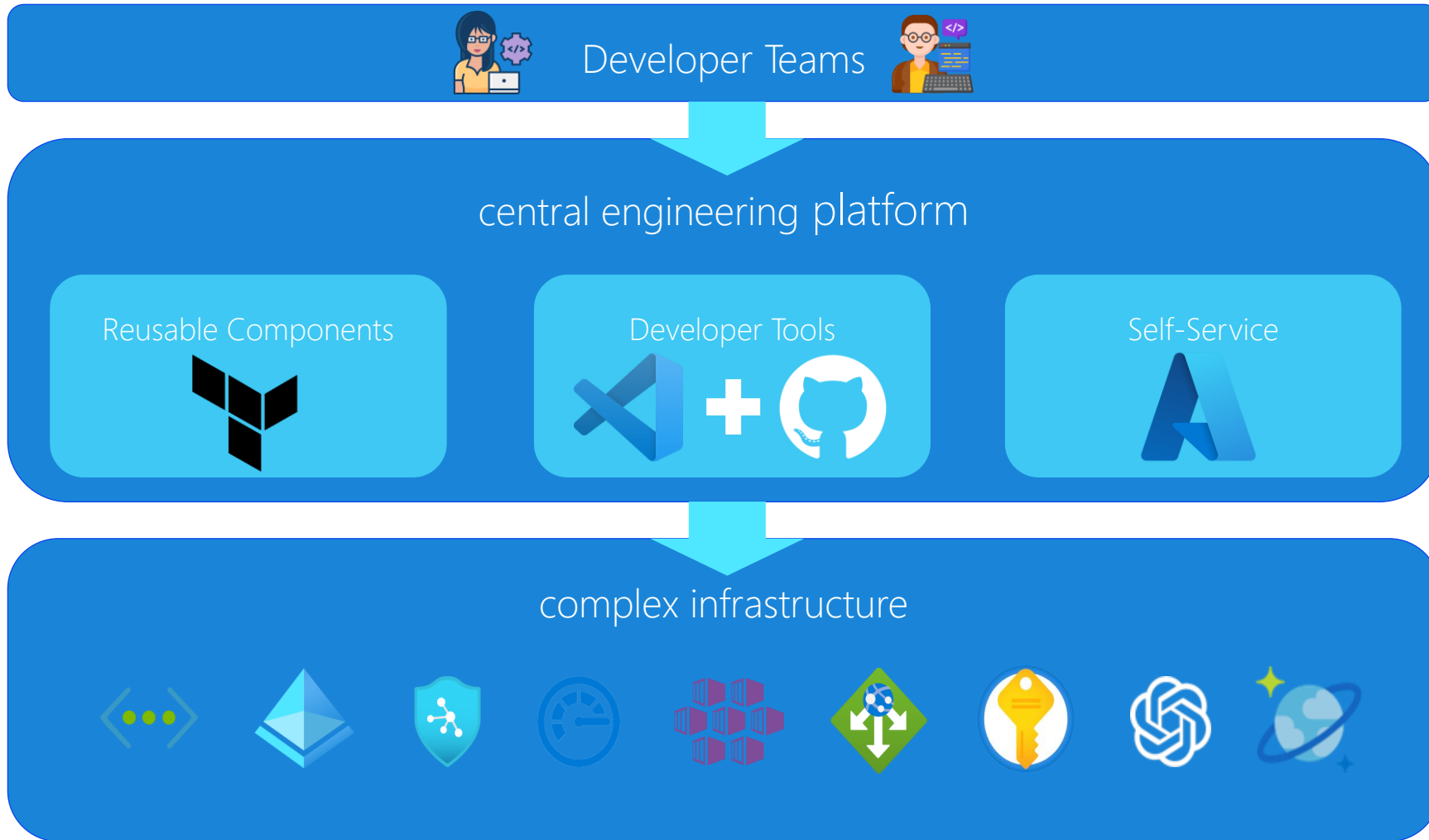
succeeded 5 days ago in 2m 44s

Search logs

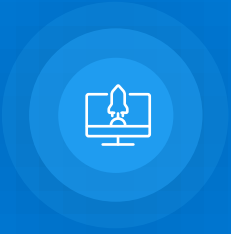


- > ✓ Set up job 5s
- > ✓ Install AZ CLI DevCenter Extension 9s
- > ✓ AZ CLI login 5s
- ▼ ✓ **AZ CLI Deployment Environments** 2m 24s
 - 1 ▶ Run ENVIRONMENT_NAME=\${ENVIRONMENT_NAME}-\${openssl rand -hex 5}
 - 26 {
 - 27 "catalogName": "sf-dev-podcast-catalog",
 - 28 "environmentDefinitionName": "webApp",
 - 29 "environmentType": "dev",
 - 30 "error": null,
 - 31 "name": "webapp-43029e109e",
 - 32 "parameters": null,
 - 33 "provisioningState": "Succeeded",
 - 34 "resourceGroupId": "/subscriptions/***/resourceGroups/podcast-app-webapp-43029e109e",
 - 35 "user": "49e7a1ab-b3ae-43aa-bf22-e2fa948b91d2"
 - 36 }
- > ✓ Complete job 8s

Platform Engineering Mindset



Greatest benefits of platform engineering



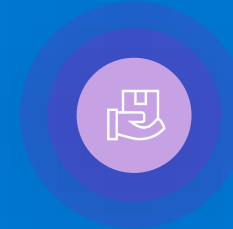
Accelerated Development

Platform Engineering streamlines development and reduces time-to-market for new applications.



Consistency and Compliance

Ensures adherence to company guidelines, best practices, standards, and regulatory requirements.



Scalability and Efficiency

Offers scalable infrastructure and resource optimization for cost-effective operations

SESSION FEEDBACK

Session Title: Mit Plattform-Engineering die
Produktivität und Zufriedenheit von
Entwicklungsteams verbessern



<https://aka.ms/AzSum-S023>

Thank you!