

# Efficient and Secure Software Delivery with Azure Deployment Environments and DevBoxes



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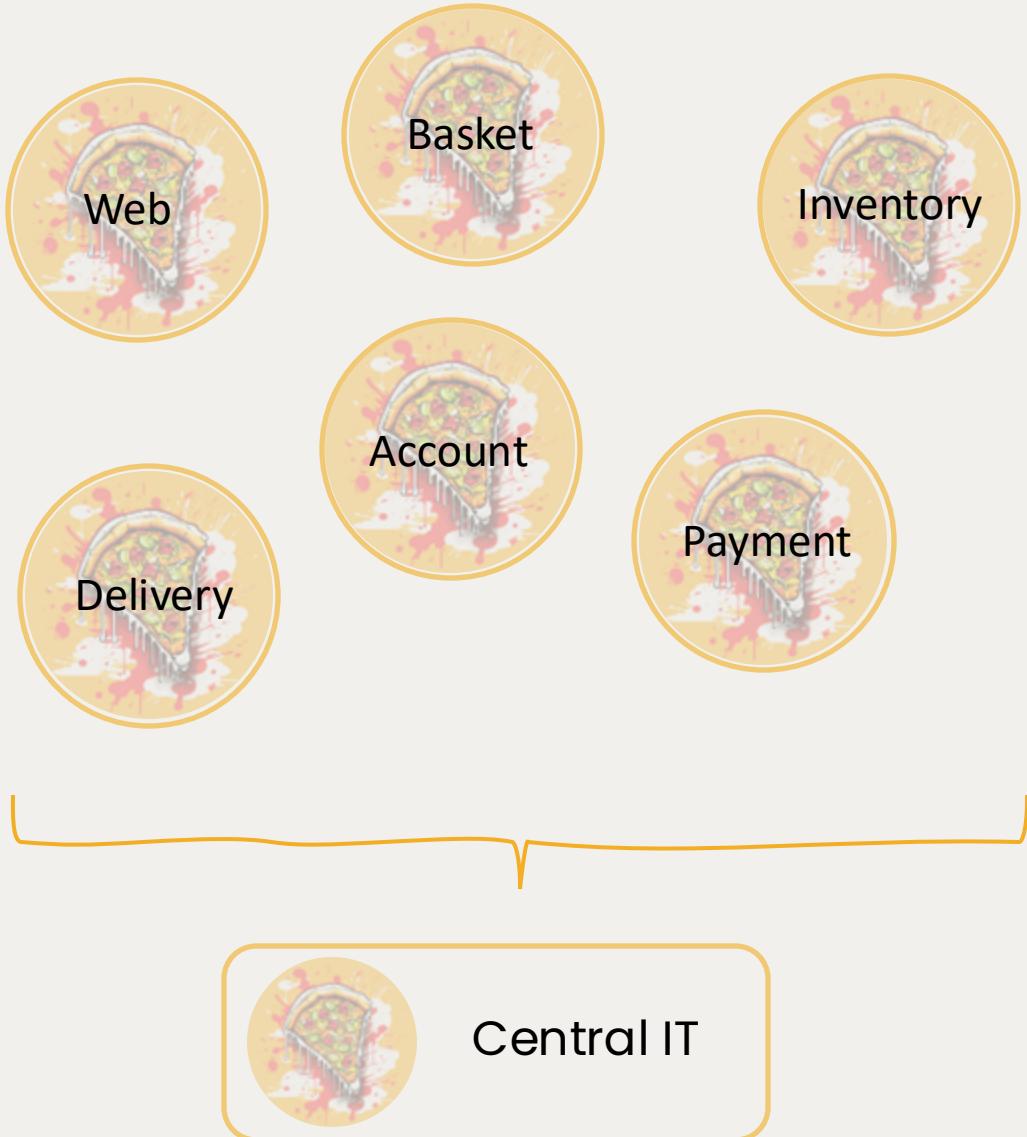
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Most Valuable  
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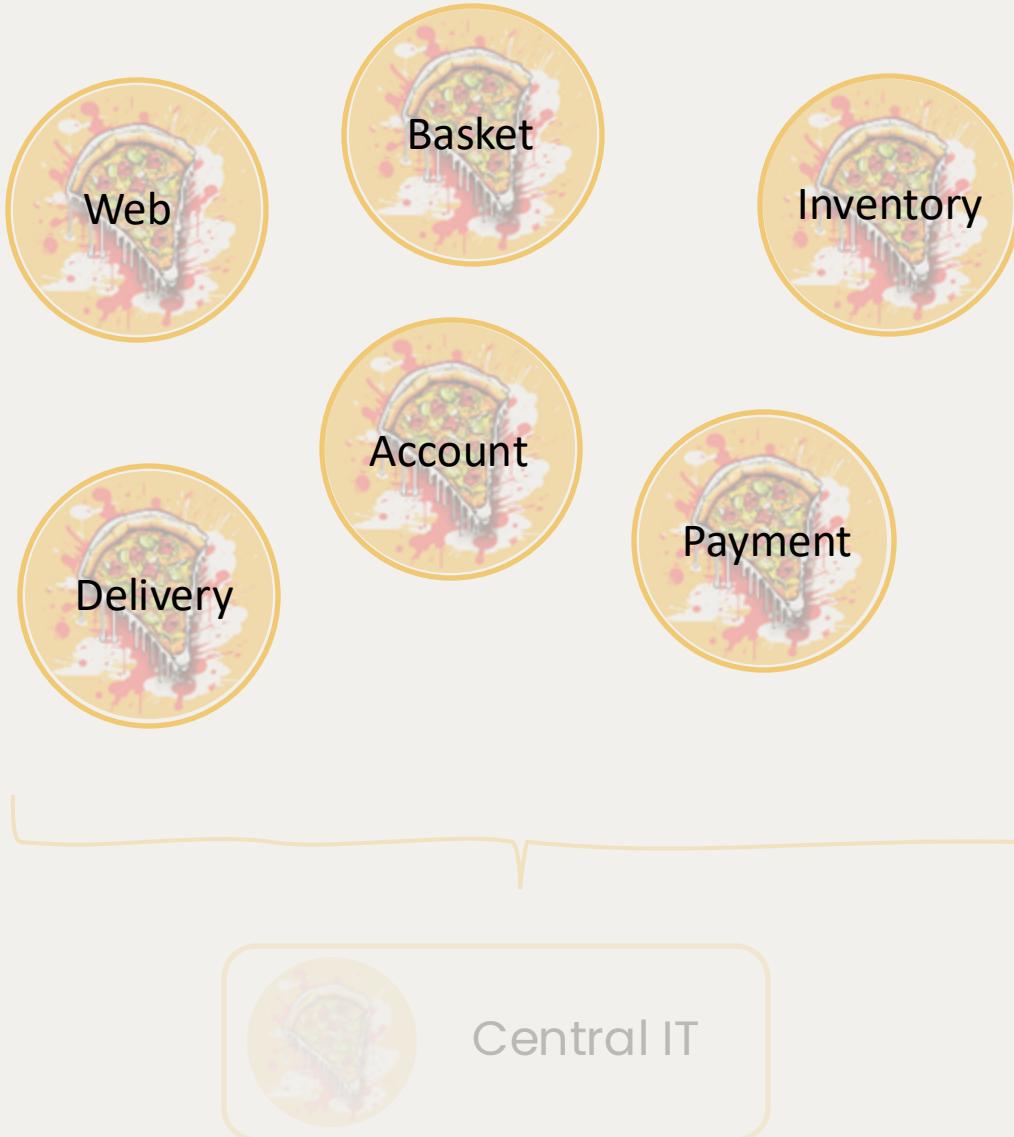


**Xebia**

Meet:  
Toma Toe  
Pizza

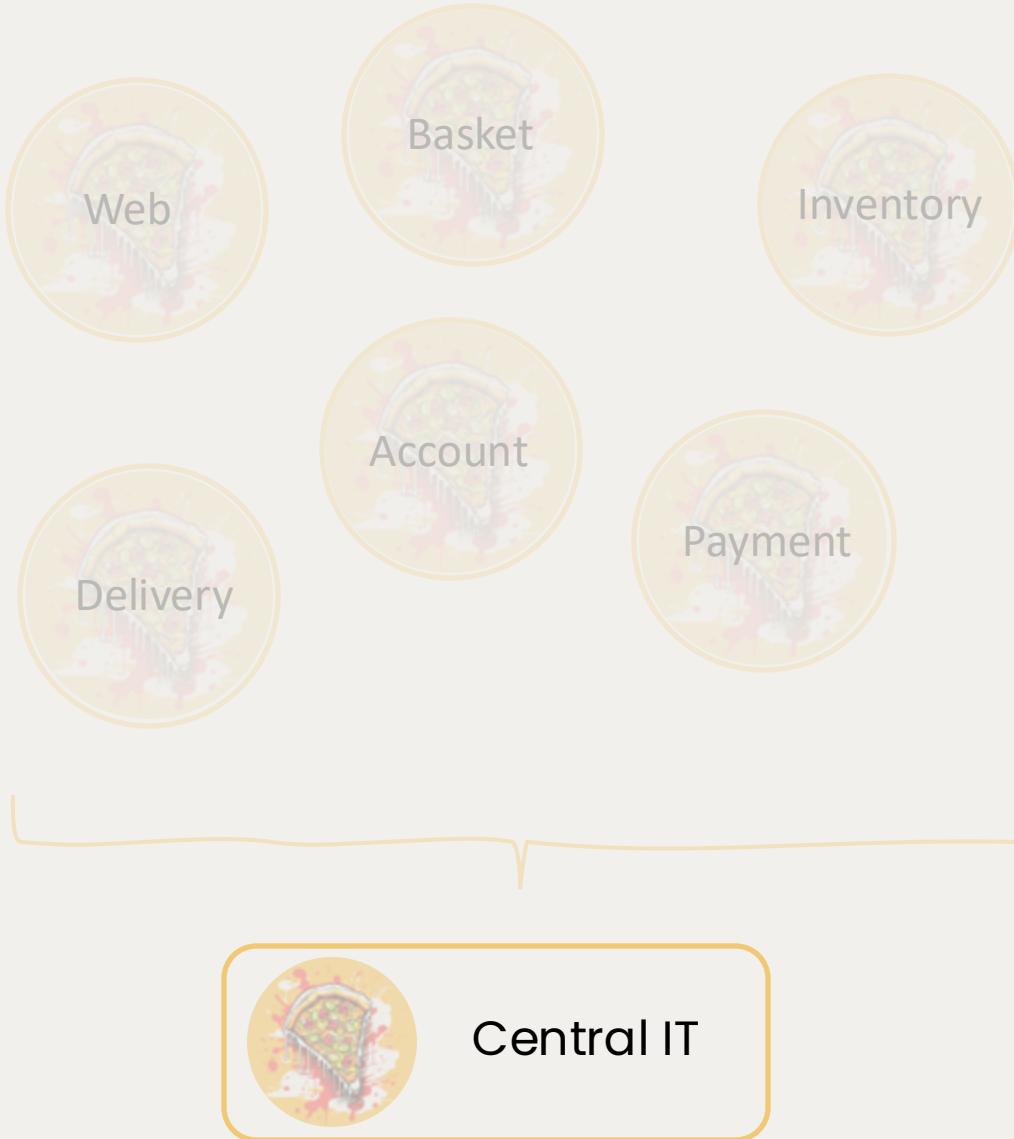






## Engineers

- 
- Lack of self-service deployment
  - Long wait times
  - Complex configurations



## Central IT



Security and compliance risks



Optimized resource allocation and utilization



Cost management and control



Standardization and collaboration

# What about the promise of cloud-based infrastructure?

## Speed

Provide developers with fast, self-service access to the infrastructure they need

## Usability

Ensure infrastructure has all the tools, services, and resources developers need

## Governance

Maintain centralized control over security, compliance, and cost management

# Platform engineering

"Platform engineering is the discipline of designing and building toolchains and workflows that enable self-service capabilities for software engineering organizations in the cloud-native era"

-  Accelerated developer velocity
-  Increased the impact of DevOps teams
-  Improve overall security and compliance

# Azure Deployment Environments

“Accelerate the development lifecycle with on-demand, preconfigured environments.”



Easy, on-demand deployment of infrastructure from the dev portal, the CLI, or CI/CD pipelines



IaC templates or custom container images help to deploy environments for any stage of development



Environment types set up by admins for a self-service dev experience while maintaining centralized governance



Comprehensive management capabilities to track costs and centrally manage Azure resources

## Edit environment type Test

When the subscription, identity, or role assignments are modified, only new environments are affected. Redeploys on existing environments will be performed in the original subscription. Updated tags will be applied to both existing and newly created environments.

### Basics

Type \*

Test

Deployment subscription \* ⓘ

Toma Toe Pizza Non-prod

### Deployment identity

Use system assigned managed identity for deployment ⓘ

### Permissions on environment resources

Environment creator role(s) \* ⓘ

Contributor, Key Vault Secrets Officer

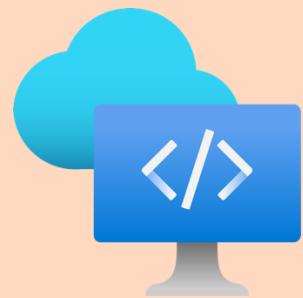
### Additional access ⓘ

Toma Toe Pizza Engineers : Contributor

Toma Toe Pizza Test Engineers : Reader

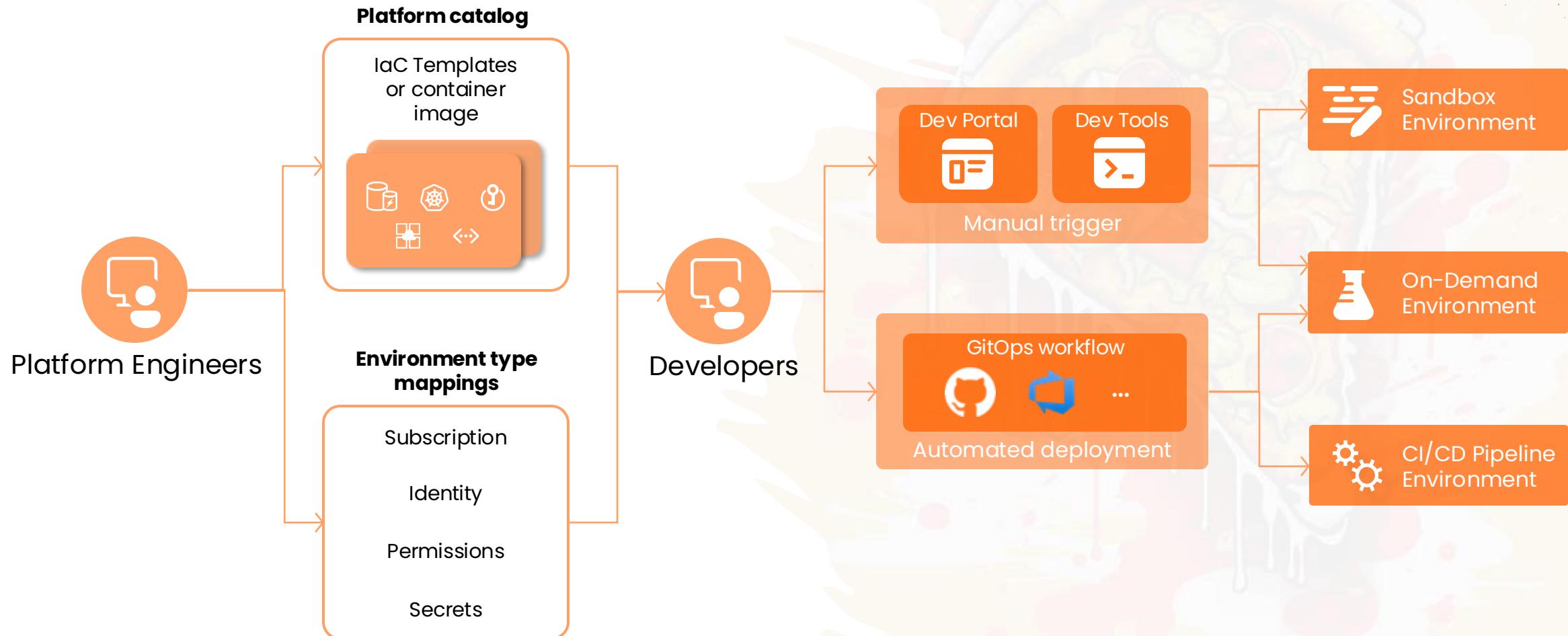
# Microsoft Dev Box

# Azure Deployment Environments

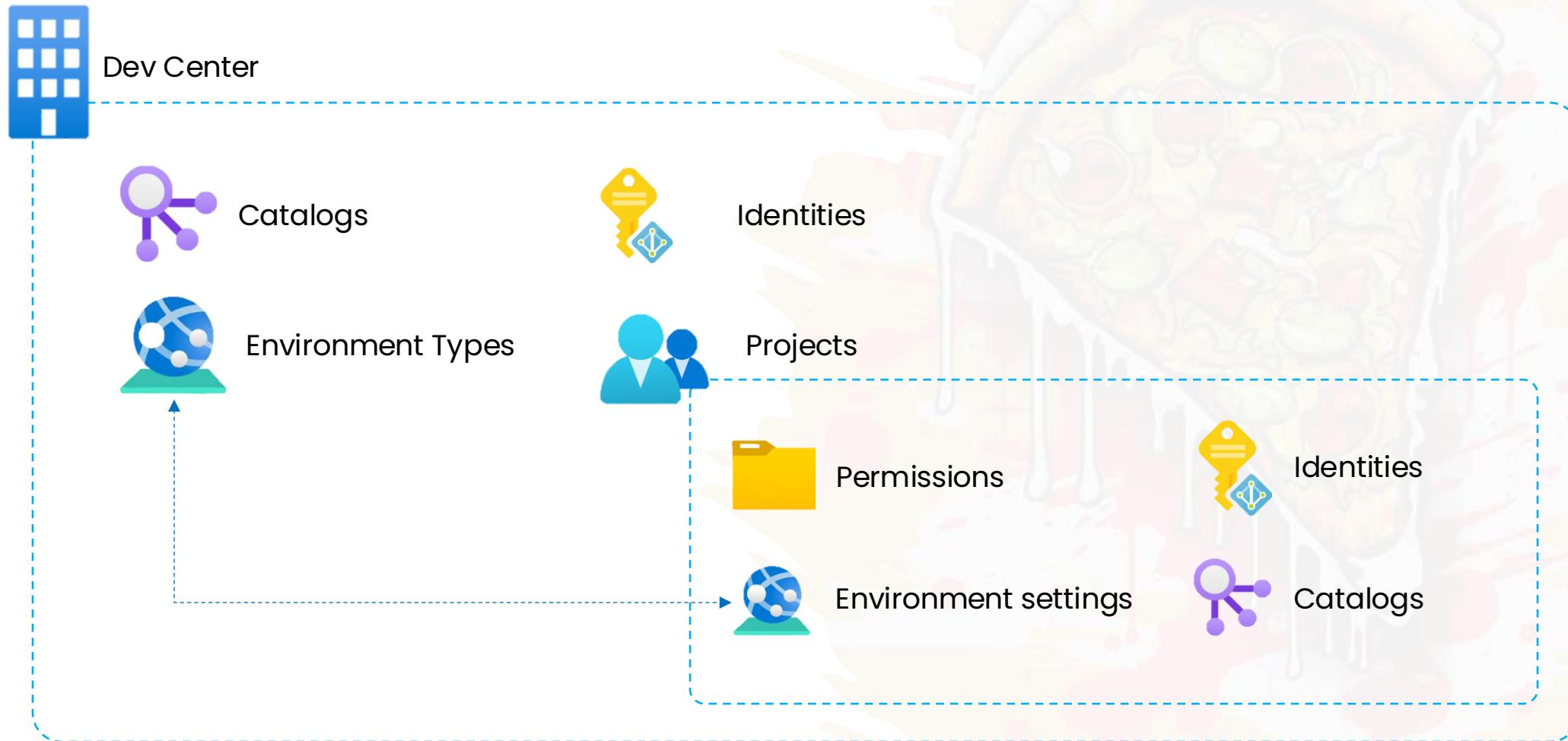


## Dev Center

# Platform Engineers and Developers



# Dev Center components



Demo!



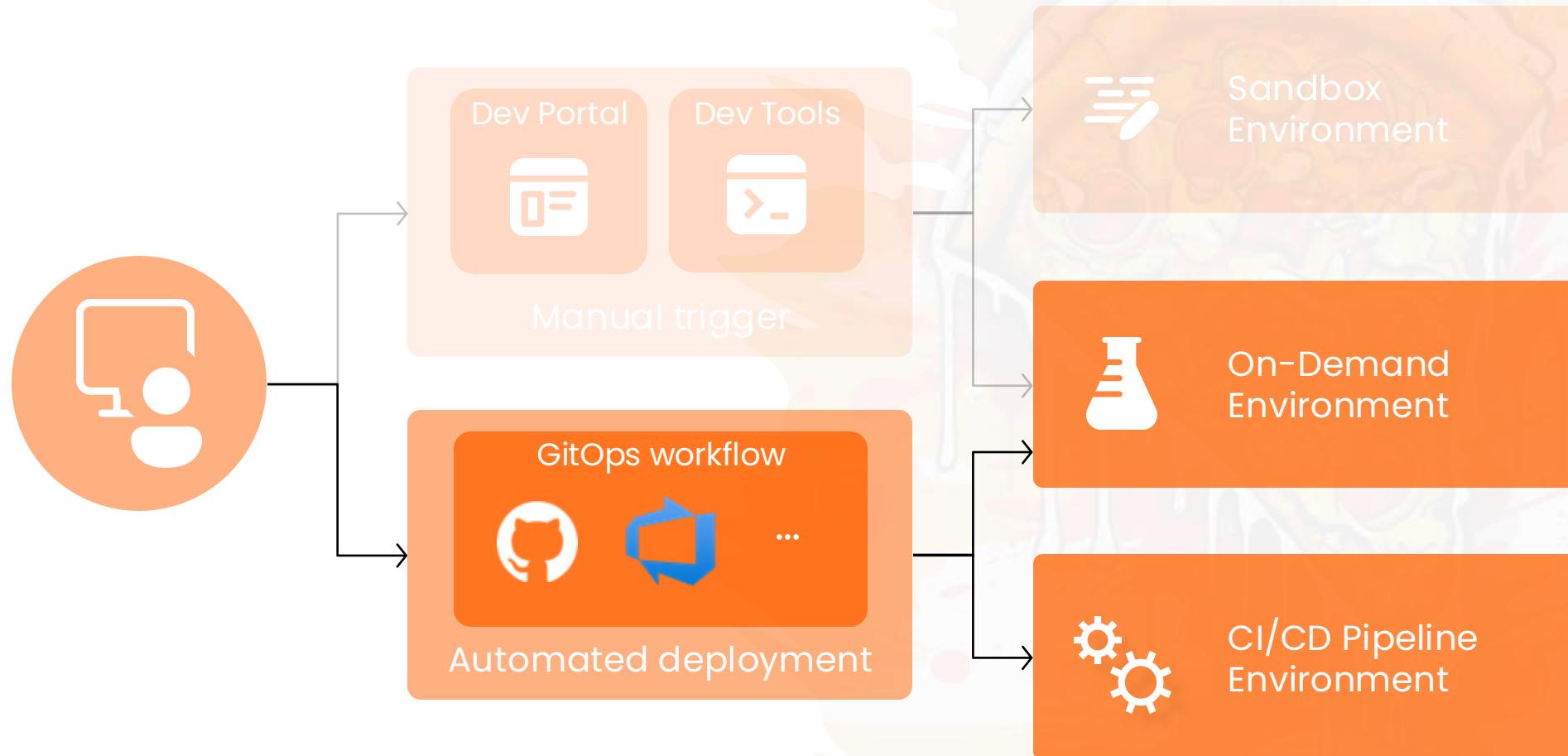
# On-demand, manual deployment



Demo!

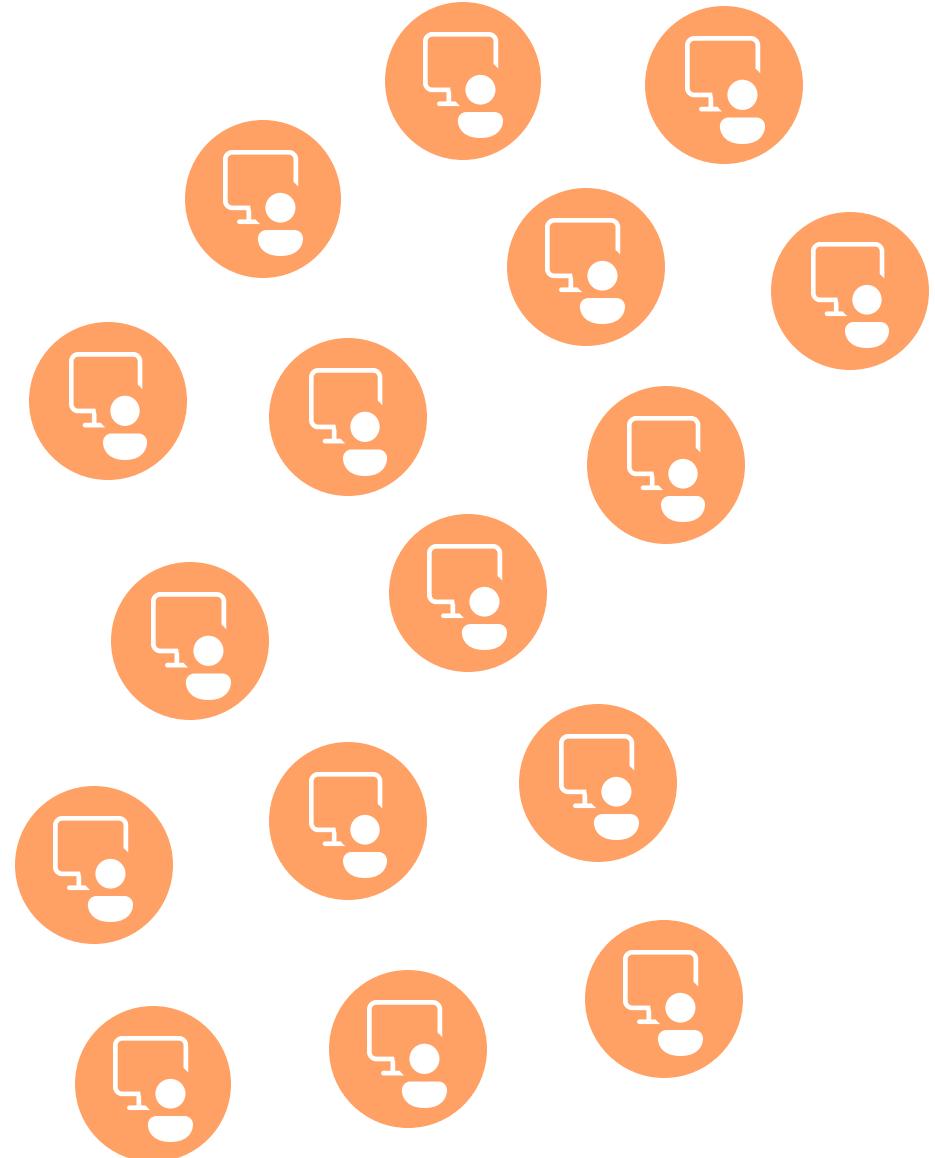


# Automatic deployments

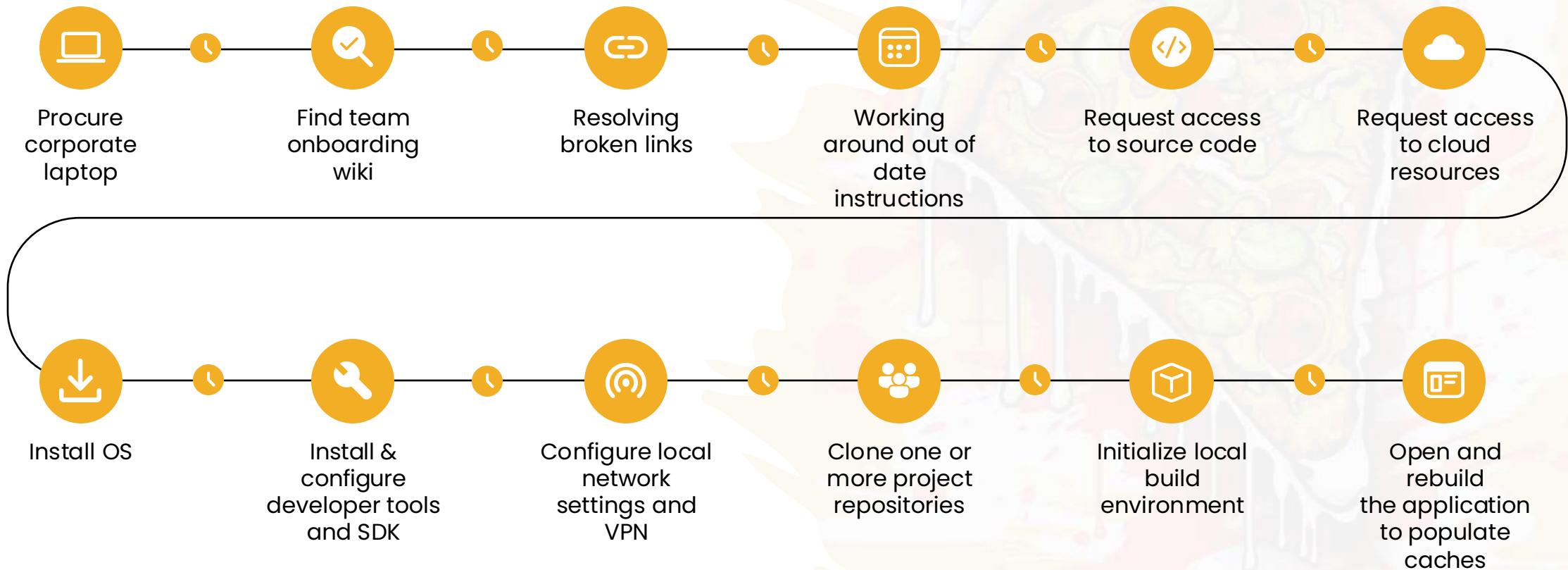


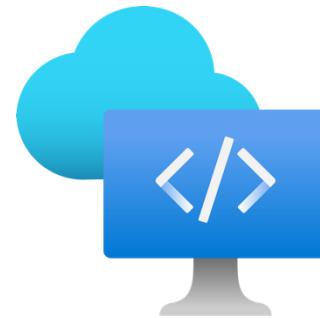
Demo!





# Getting access to a new project code base





# Microsoft Dev Box



On-demand provision a pre-configured VM



Ready to code

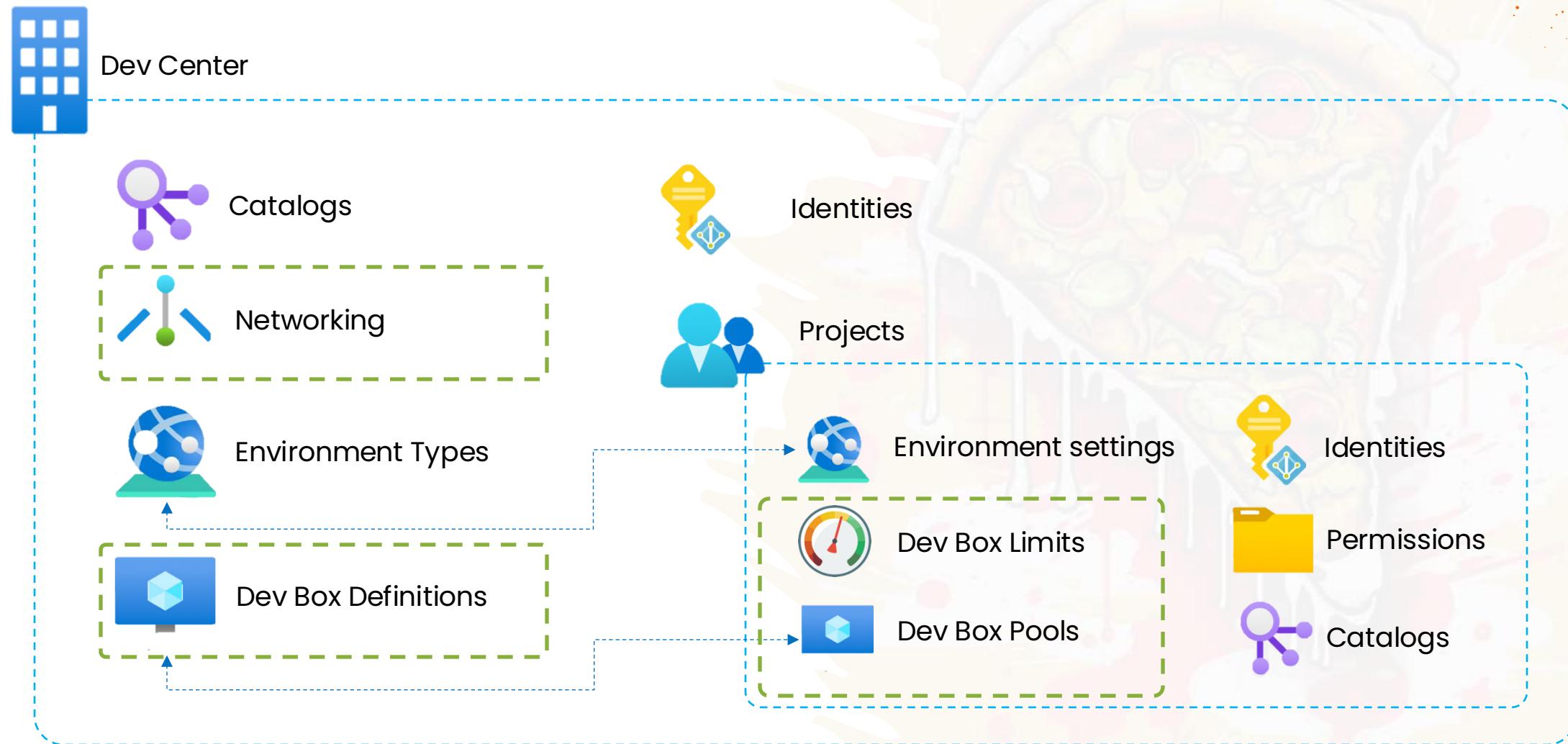


Project-based



Managed & secure

# Dev Center components



# Azure Dev Box vs GitHub Codespaces

GitHub Codespaces	Operating System		Microsoft Dev Box
Linux	SCM Support	Any Version Control system	Windows
Cloud native apps	Target workloads	Any workload	
GitHub.com	IT management	Endpoint Manager   Intune	

# How different roles use Microsoft Dev Box

Set and manage security policies



Network configurations



Security settings



Organizational policies



## Platform Engineers

Manage Dev Boxes via Intune and Microsoft Endpoint Manager

Configure dev boxes by project



Dev Box SKU



Cost controls



Toolset customization



Dev experience settings



## Dev Teams

Create pools of Dev Boxes tailored to developers' projects and tasks

Deploy from the Dev Portal



**Dev Box 1:**  
high-compute workspace



**Dev Box 2:**  
data engineer workspace



## Developers

Deploy the Dev Boxes they need to work on their current tasks and projects

Demo!



# Thank You!



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