

Running Functional Tests with Azure Pipelines

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25th June 2020



Introductions



What is your name?



What is your job role?



**What would you like
to learn about?**

Agenda



Azure Pipelines



Repos, Build/Release pipelines



Microsoft/Self Hosted agents



Selenium automated test Lab#1



Release deployment control



Azure Artifacts



Overview



Create & Consume
Your Own Packages



Discussion & Wrap-up



Questions & Discussions



Wrap-up



<https://aka.ms/PipelinesArtifacts>



Azure DevOps Overview



Azure Boards

Deliver value to your users faster using proven agile tools to plan, track, and discuss work across your teams.



Azure Pipelines

Build, test, and deploy with CI/CD that works with any language, platform, and cloud. Connect to GitHub or any other Git provider and deploy continuously.



Azure Repos

Get unlimited, cloud-hosted private Git repos and collaborate to build better code with pull requests and advanced file management.



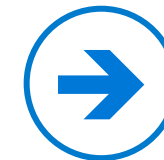
Azure Test Plans

Test and ship with confidence using manual and exploratory testing tools.



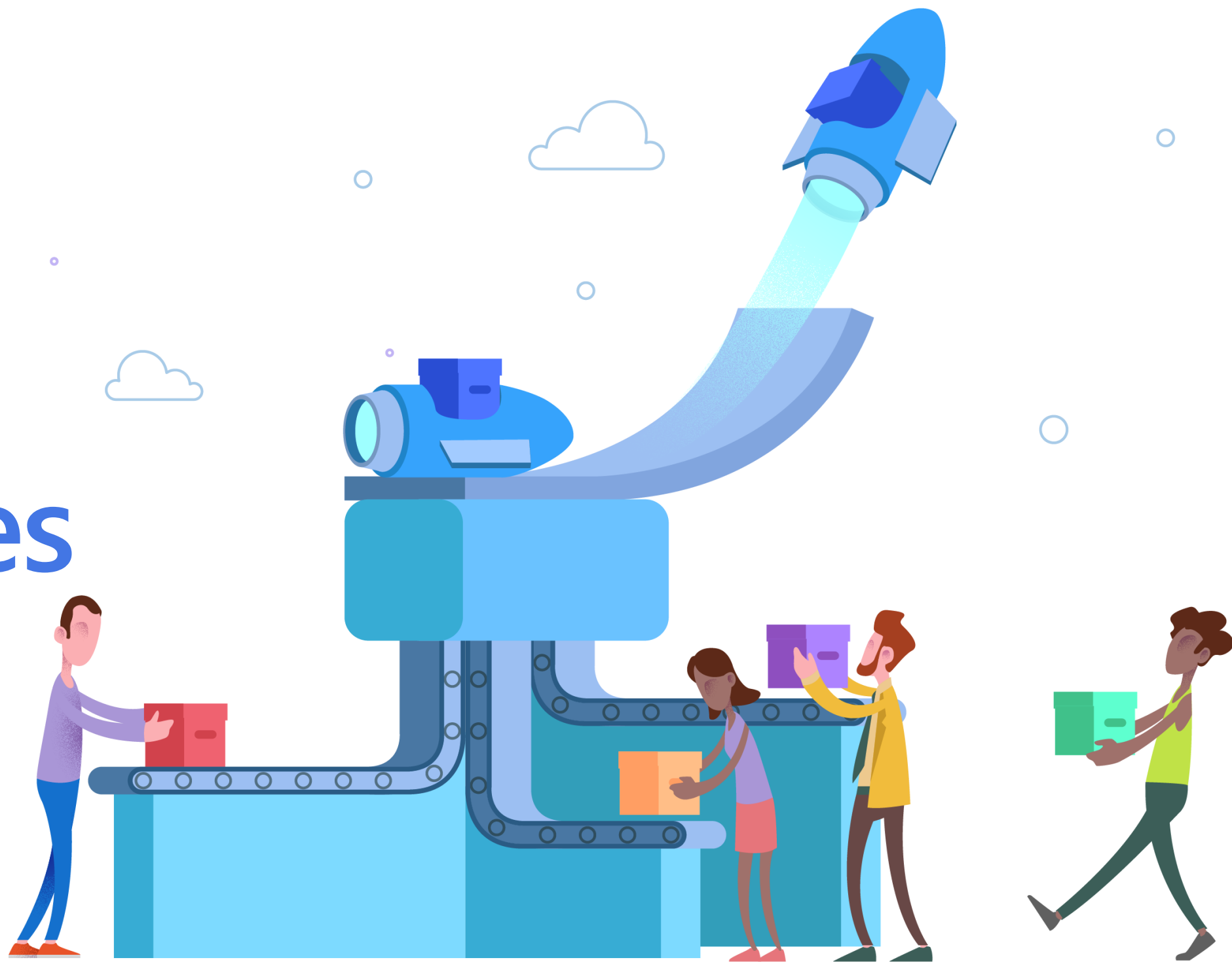
Azure Artifacts

Create, host, and share packages with your team, and add artefacts to your CI/CD pipelines with a single click.

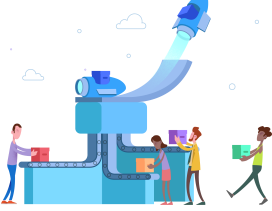


[Azure DevOps Roadmap](#)
[Azure DevOps Blog](#)

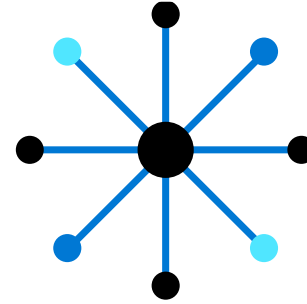
Azure Pipelines



Azure Pipeline Overview



Any language,
any platform



Extensible and Secure



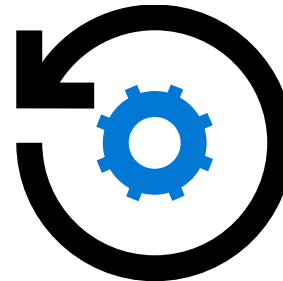
Deploy anywhere



YAML is
Pipeline as code



Build & releases
Approval gates



Orchestrate complex
workflows

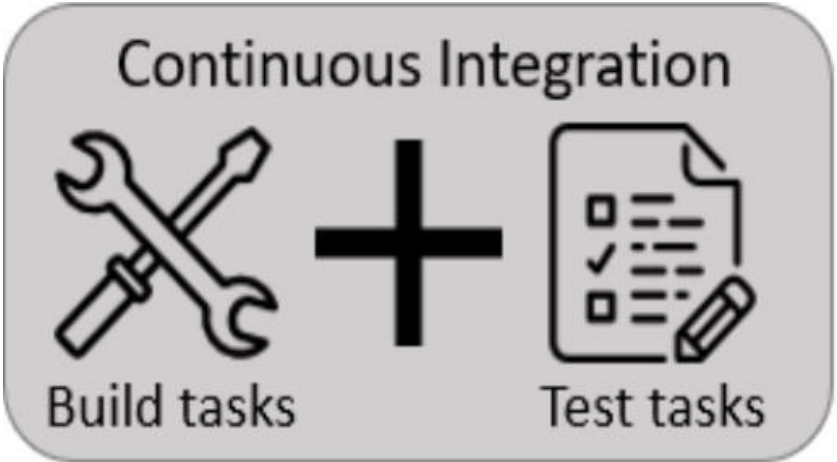
Continuous Everything



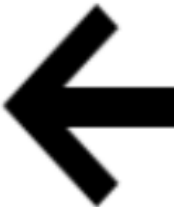
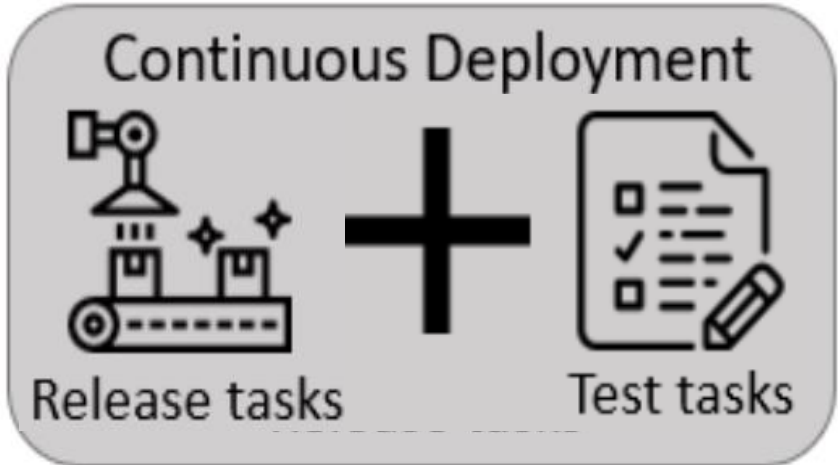
Edit Code



Push to code repo

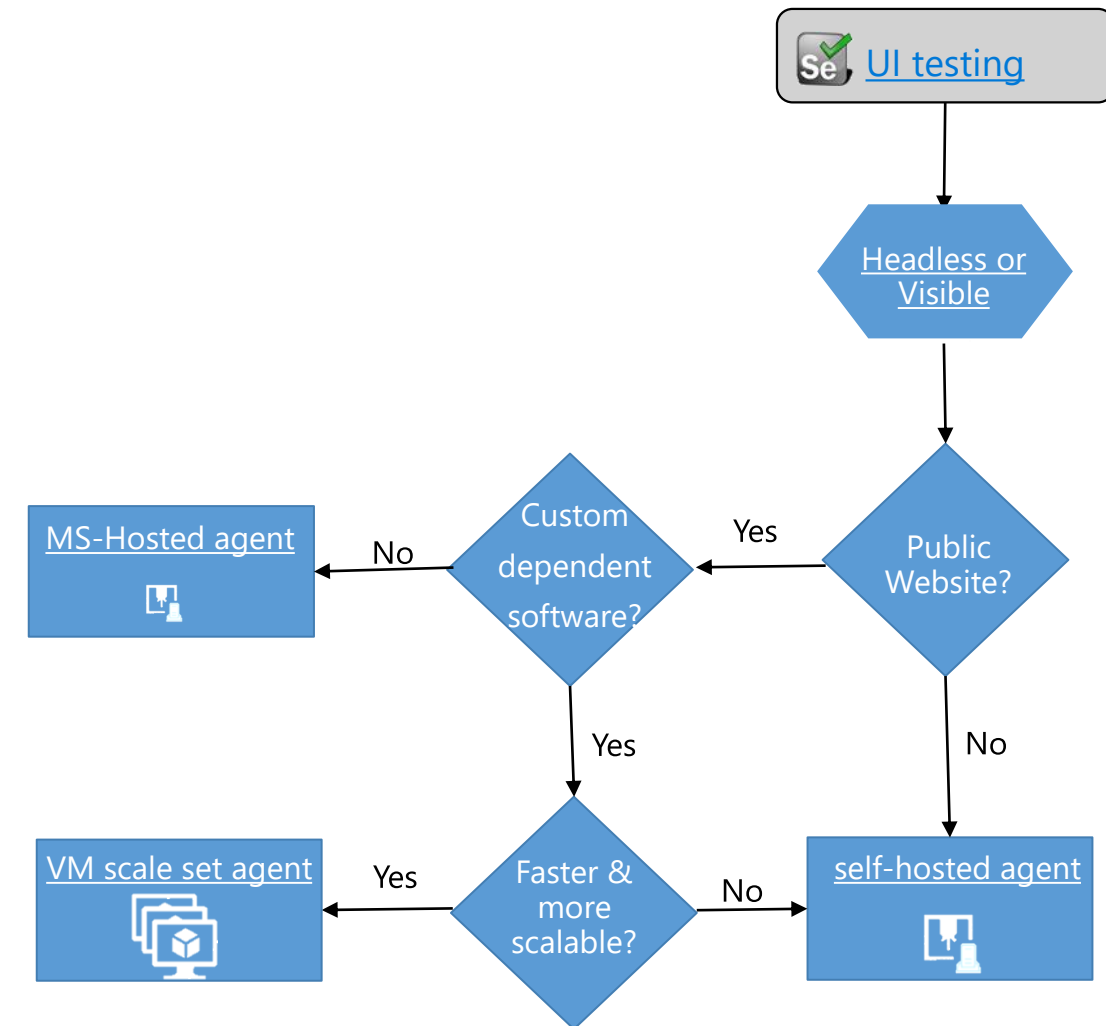
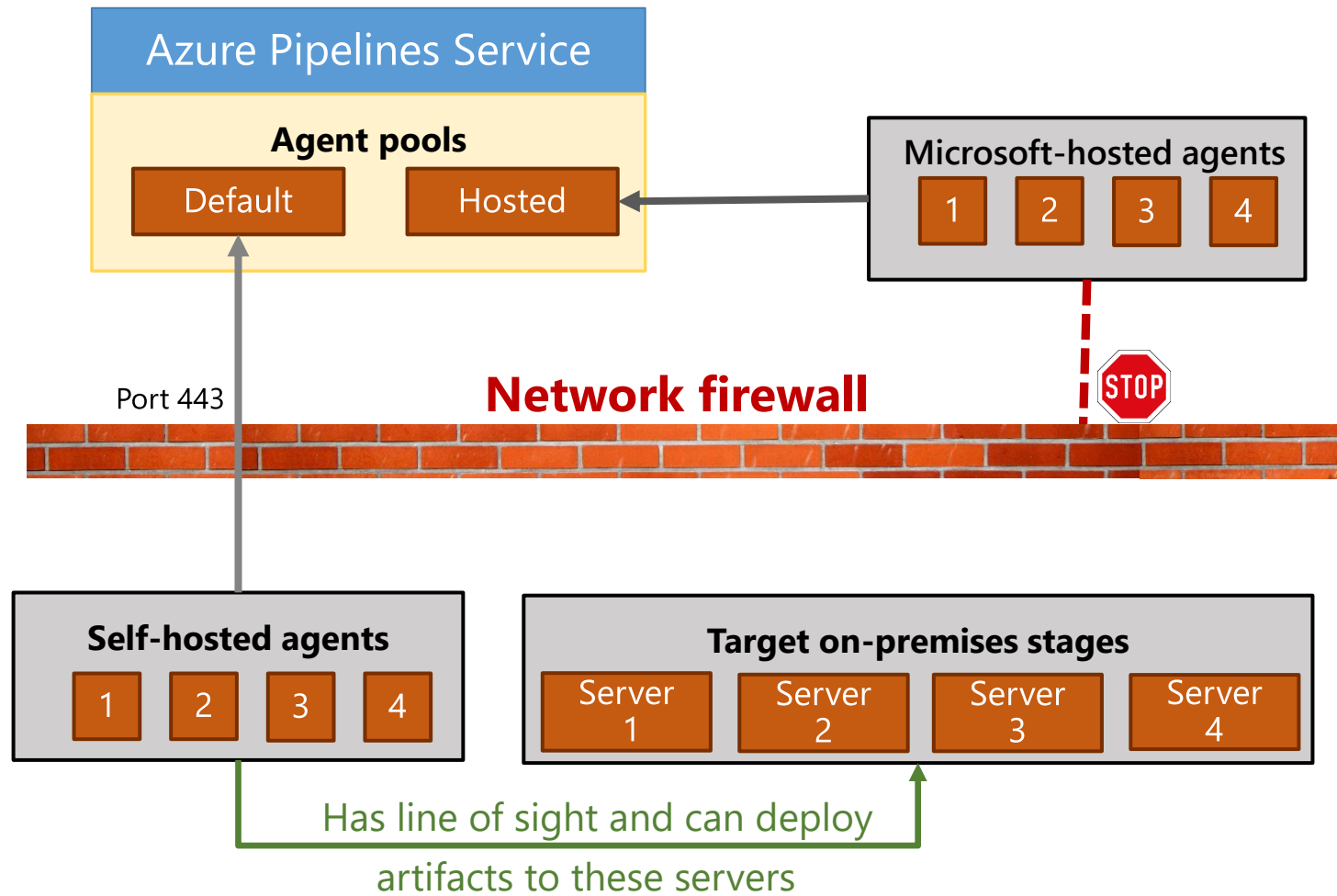
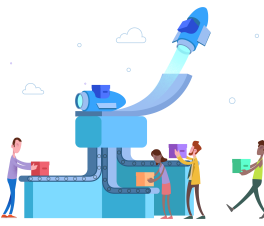


Create artifact

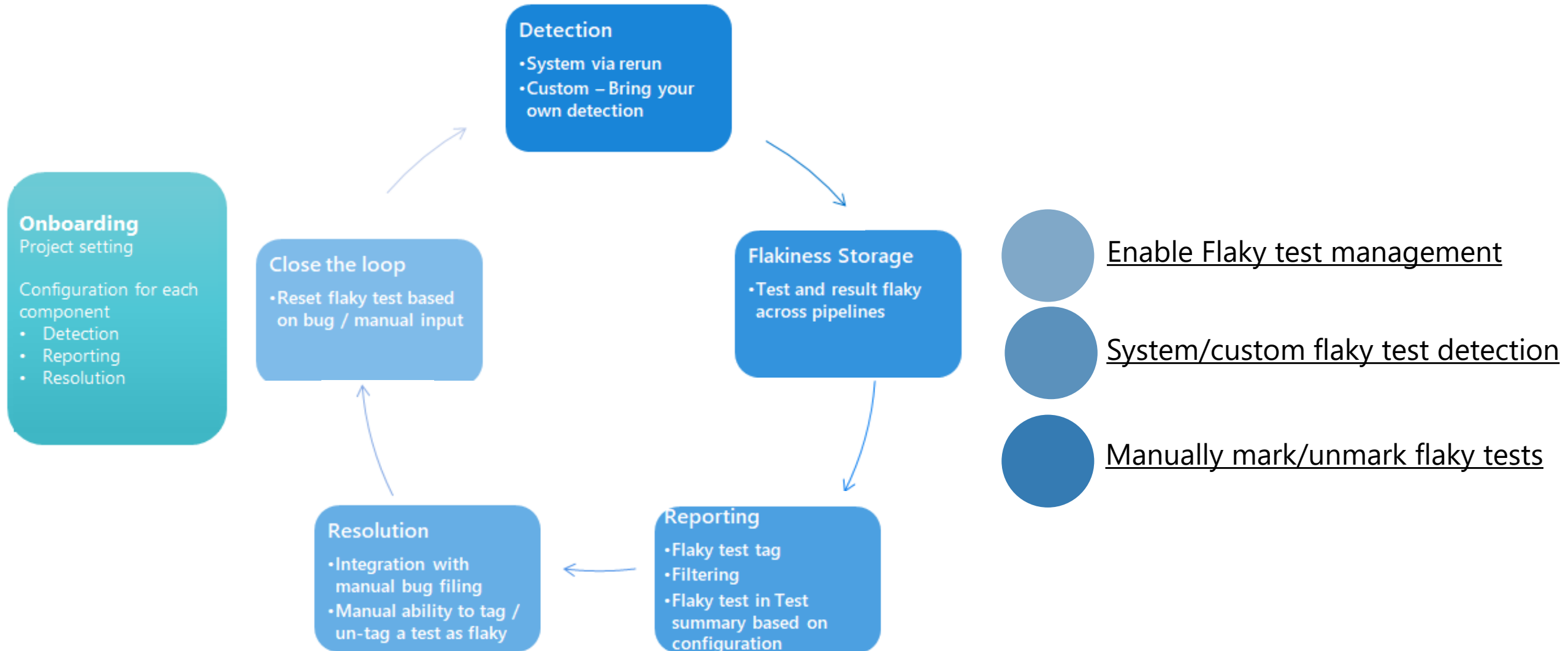
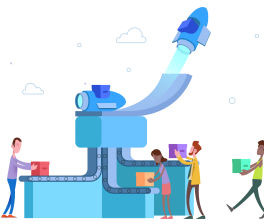


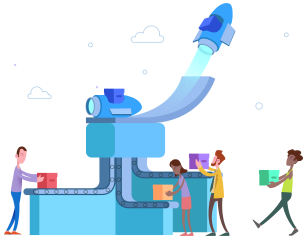
Deploy to target

Run Functional UI Test on Microsoft/Self-Hosted agents



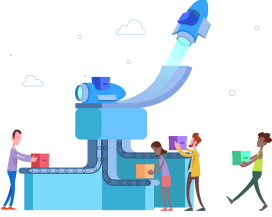
Manage Flaky Tests





Break~ 10 minutes



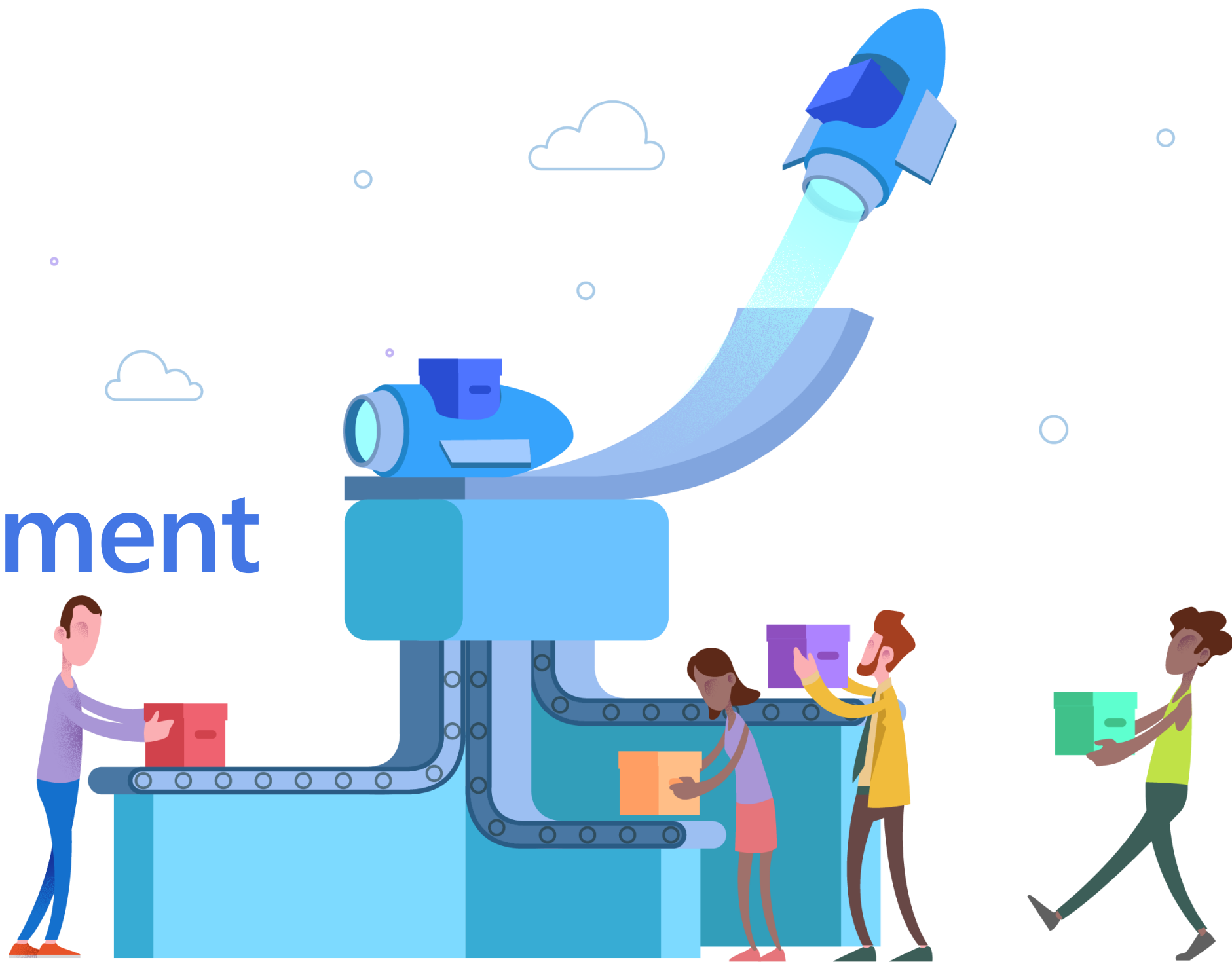


Run Functional Tests in Azure Pipelines Lab #1 with Selenium

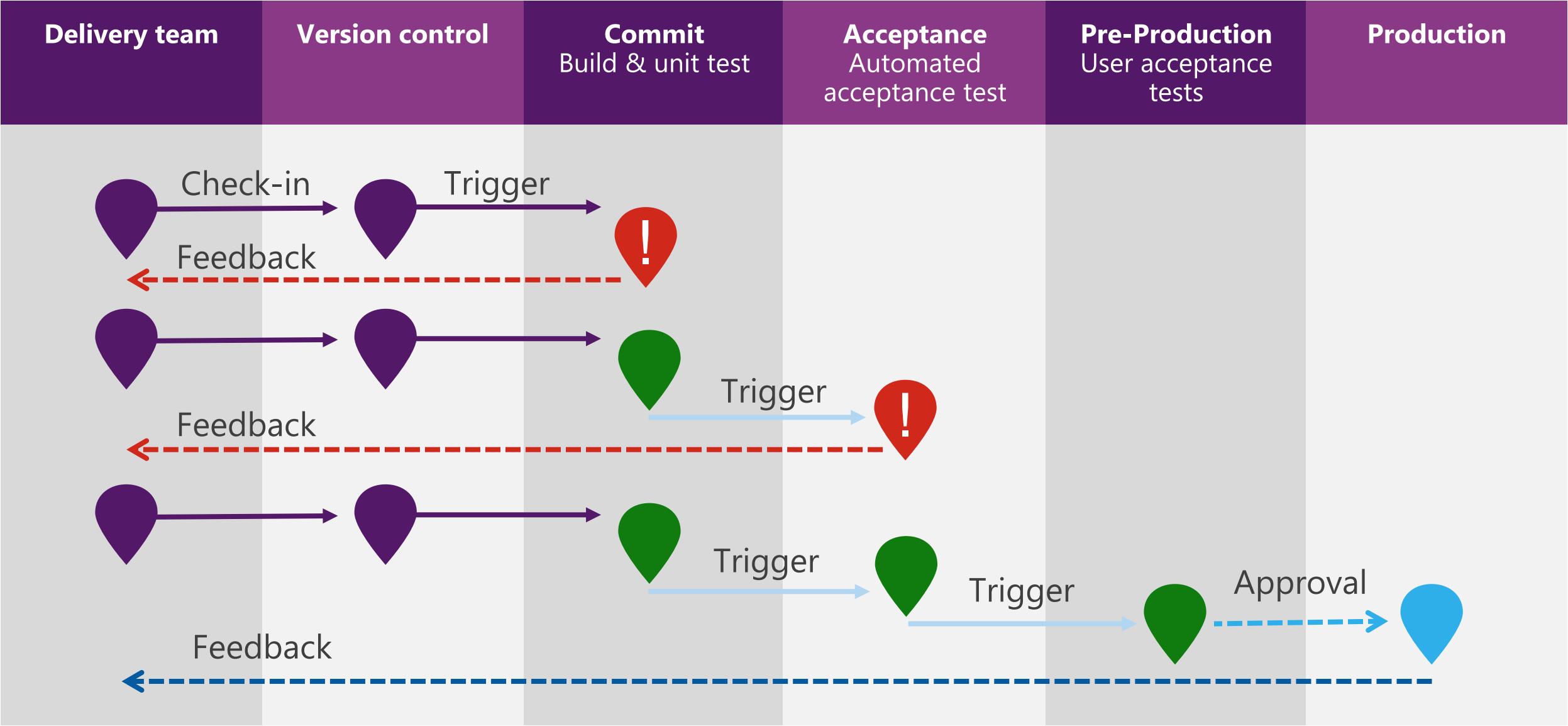


<https://aka.ms/PipelineFunctionalLab1>

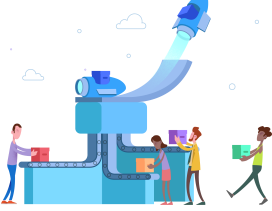
Release Management



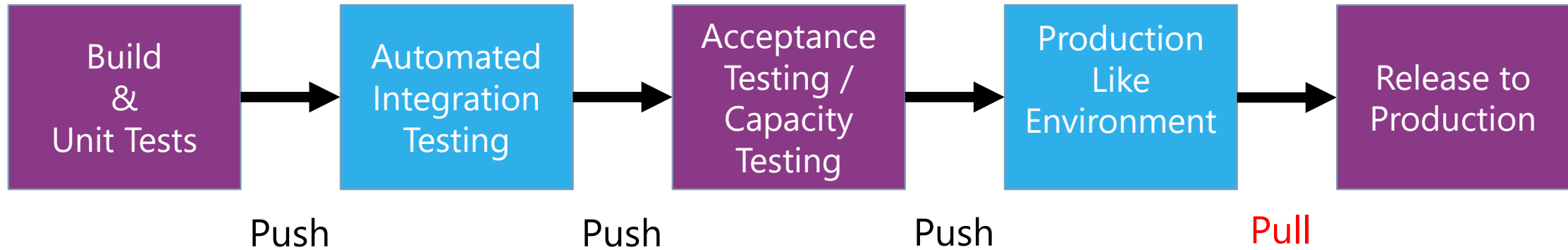
Release Quality Gates



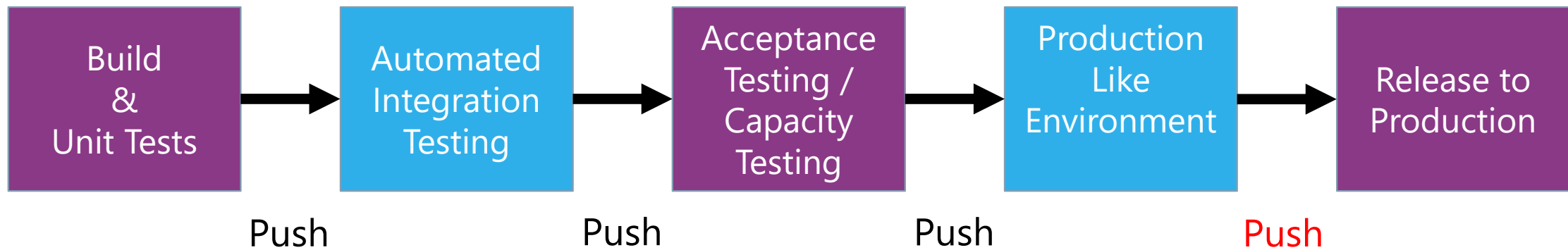
Continuous Delivery vs Deployment



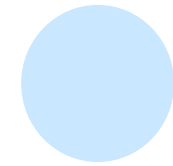
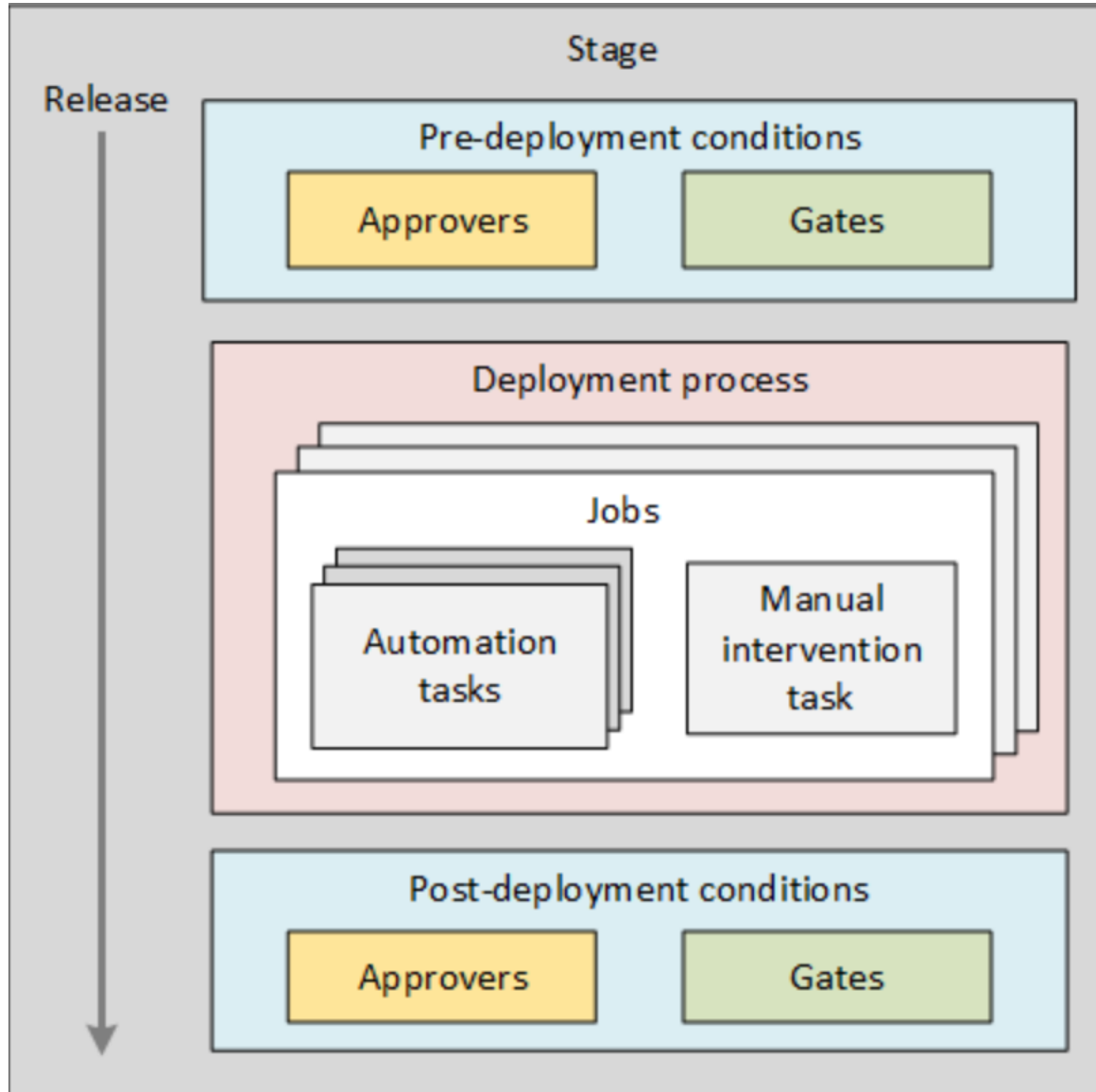
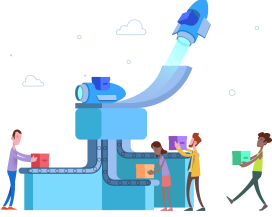
Continuous Delivery



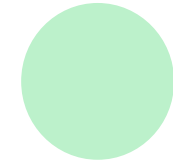
Continuous Deployment



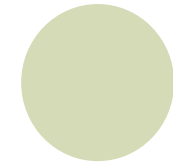
Approvals and Gates



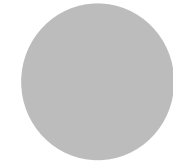
Query work items



Query integrated risk management system

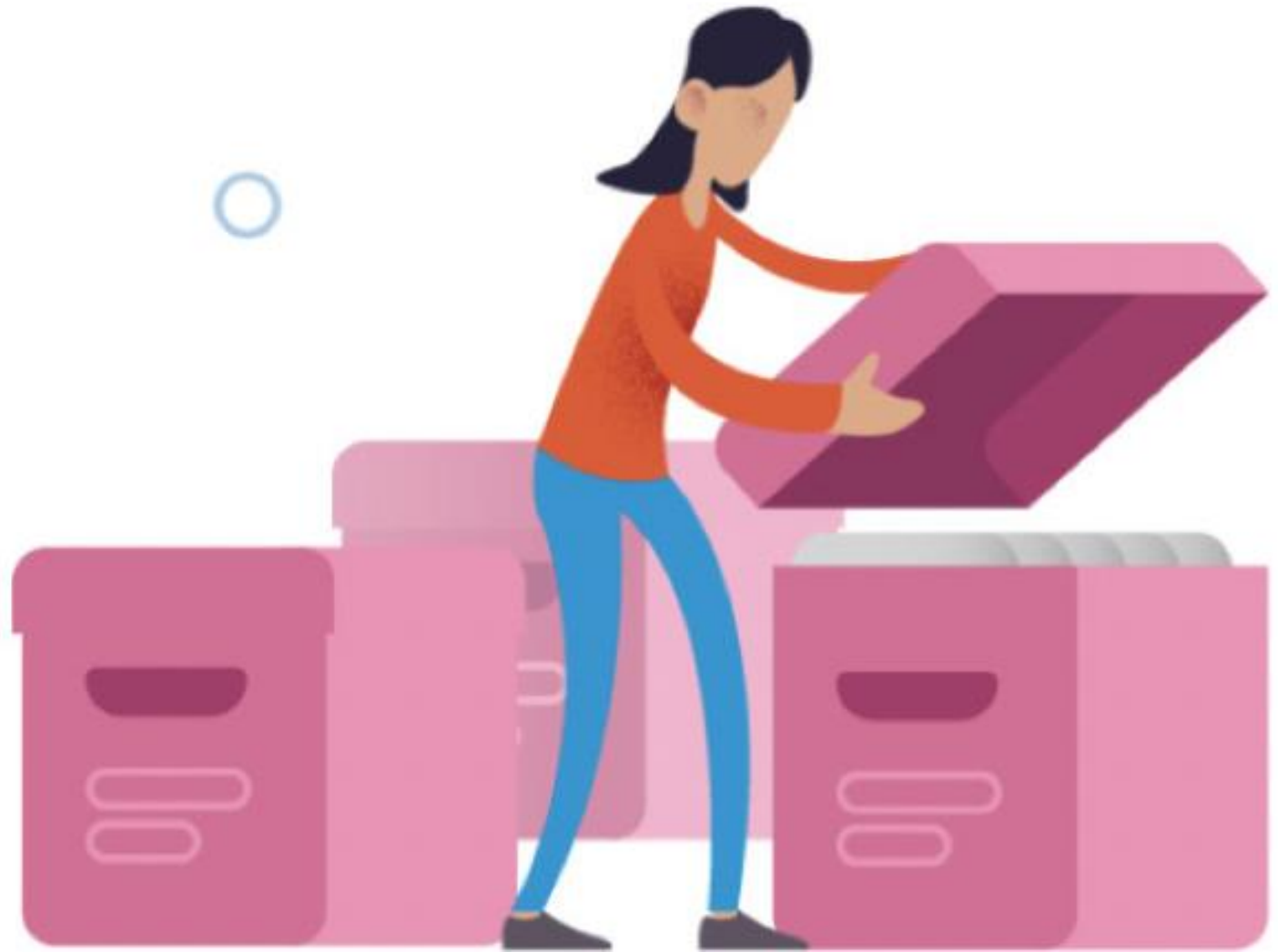


Invoke Azure Functions / REST API



Query Azure Monitor

Azure Artifacts





Azure Artifacts

Create and share Maven, npm, and NuGet package feeds from public and private sources – fully integrated into CI/CD pipelines



Feeds

Azure Artifacts introduces the concept of multiple feeds that you can use to organize and control access to your packages.



What is a feed?

If you're familiar with using packages from NuGet or npm, you can think of those places each as a single feed.

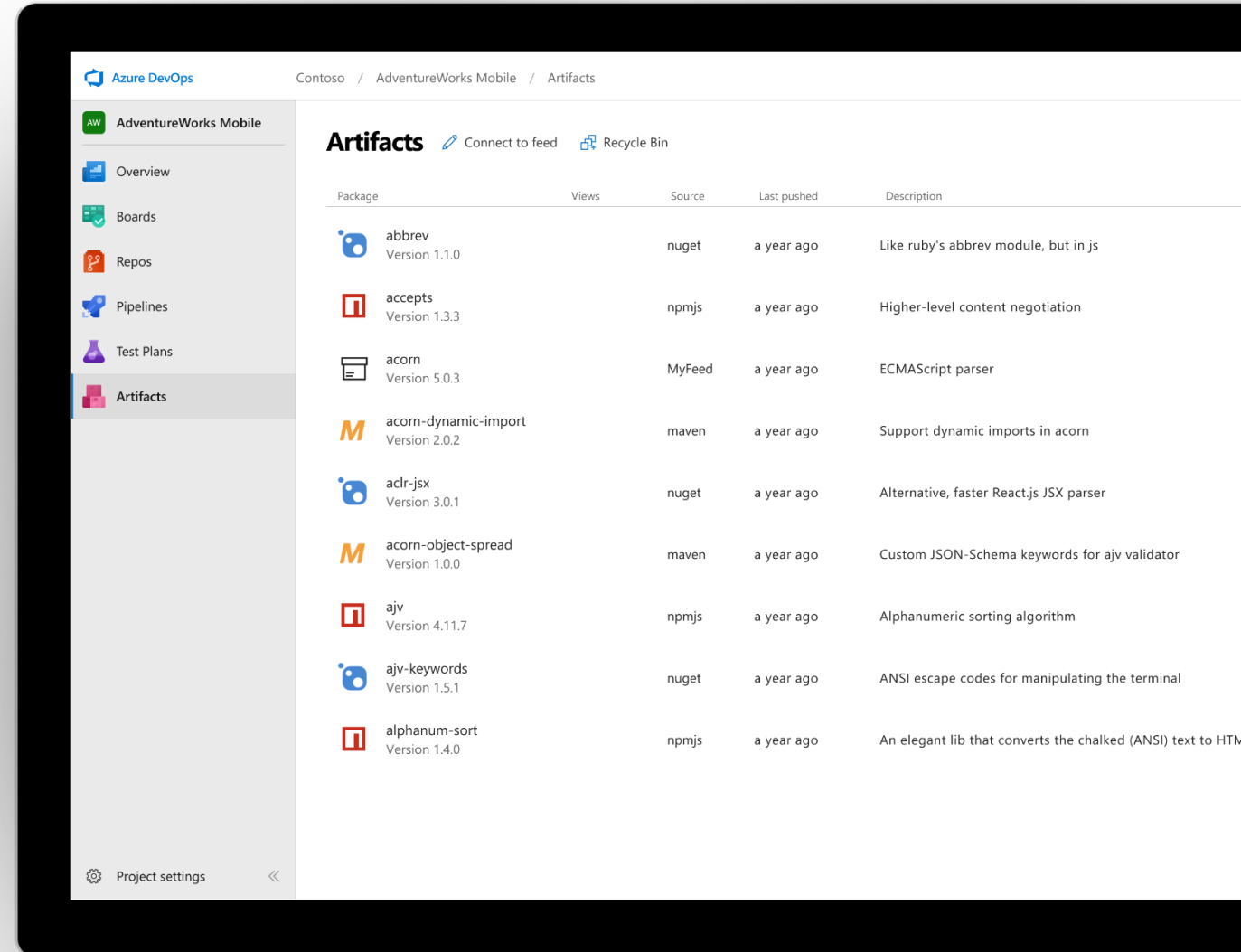


Terminology

You might also have heard feeds called package repositories or package sources, especially if you're a npm or Maven user.



<https://azure.com/devops>





Azure Artifacts

Create and share Maven, npm, and NuGet package feeds from public and private sources – fully integrated into CI/CD pipelines



Manage all package types

Get universal artifact management for Maven, npm, and NuGet.



Add packages to any pipeline

Share packages, and use built-in CI/CD, versioning, and testing.

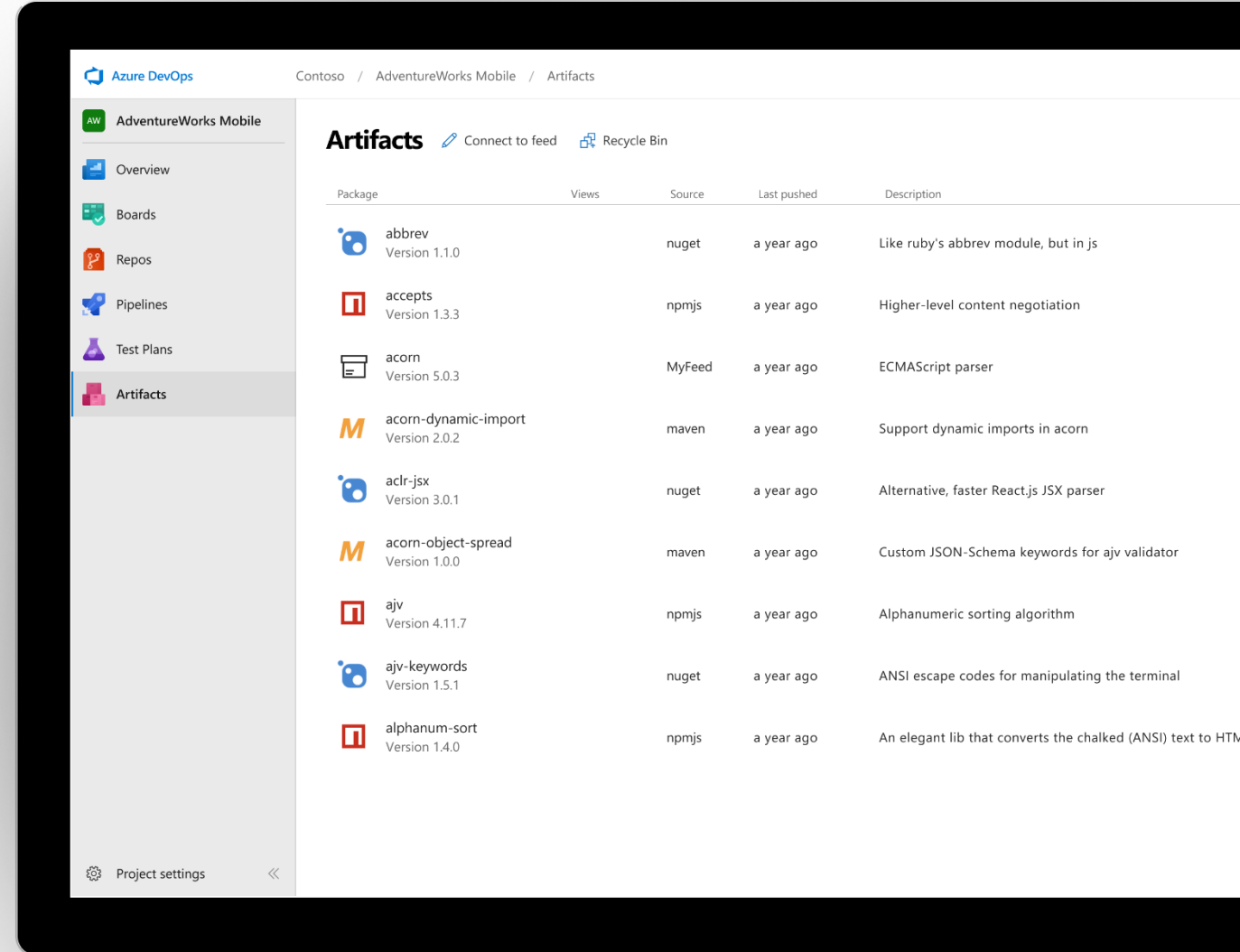


Share code efficiently

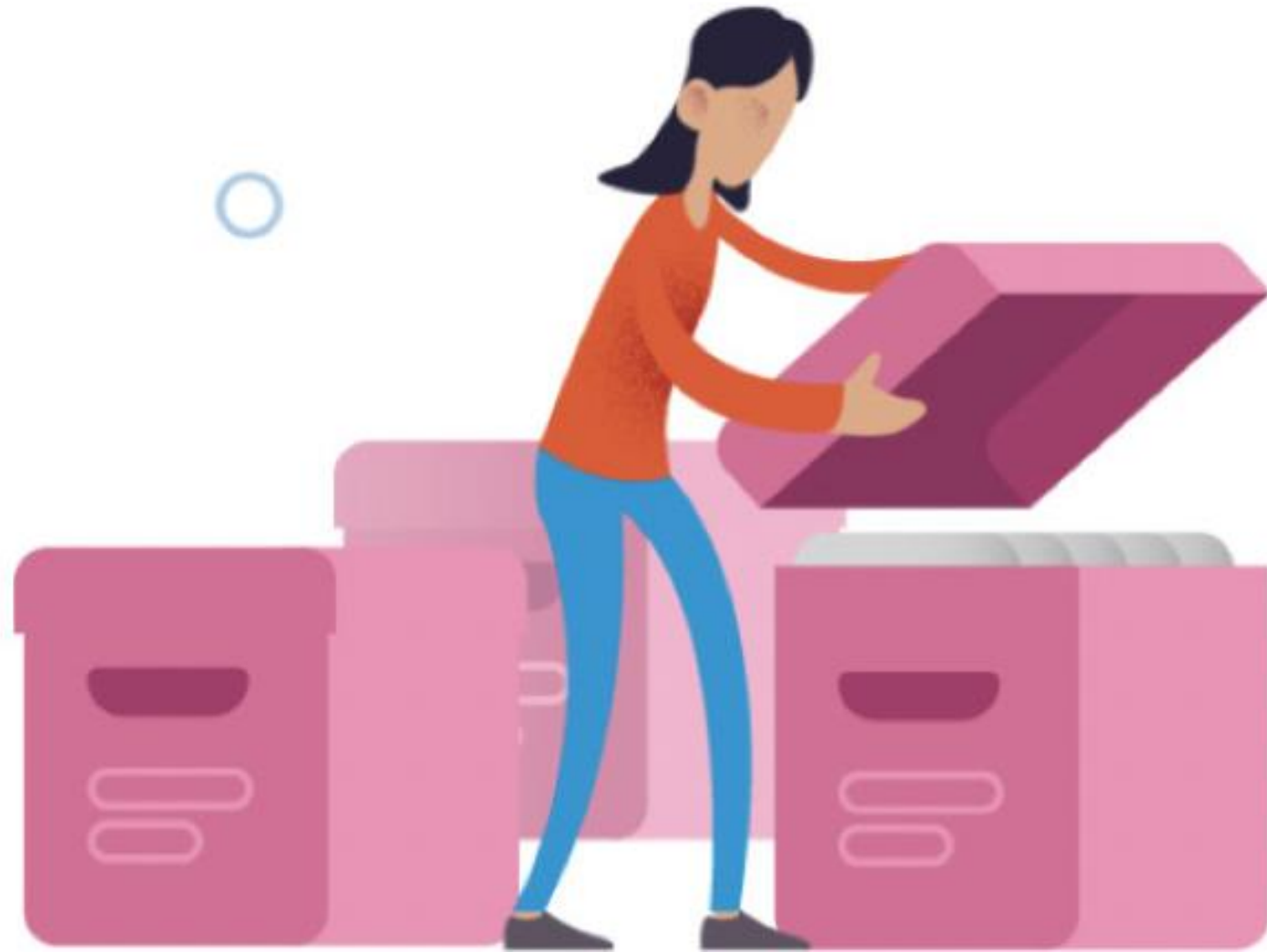
Easily share code across small teams and large enterprises.



<https://azure.com/devops>



Creating and Sharing Testing Library Packages



Q&A

You have

Questions

We have

Answers

Thank You

ευχαριστώ Salamat Po متشكراً شكراً Grazie
благодаря ありがとうございます Kiitos Teşekkürler 谢谢
ឧបត្ថម្ភ Obrigado شكریه Terima Kasih Dziękuję
Hvala Köszönöm Tak Dank u wel ДЯКУЮ Tack
Mulțumesc спасибо Danke Cám ơn Gracias
多謝晒 Ďakujem תודה நன்றி Děkuji 감사합니다

