

Guide

LET US HELP YOU

Ask questions through the app







also remember to rate session

THANK YOU!

#GOTOams

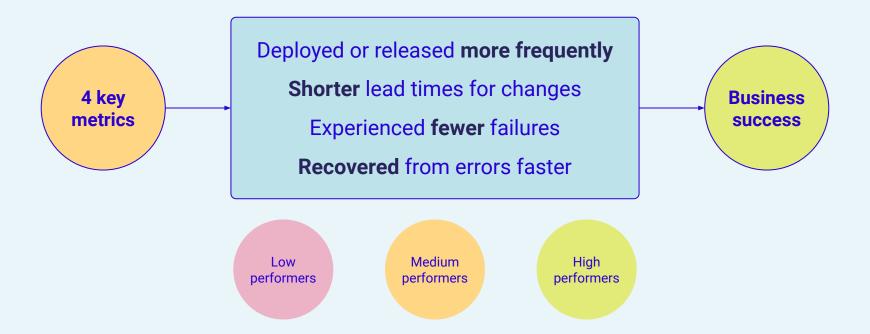
Adevinta

Paving the Golden Path

Achieving High Performance with an Internal Developer Platform

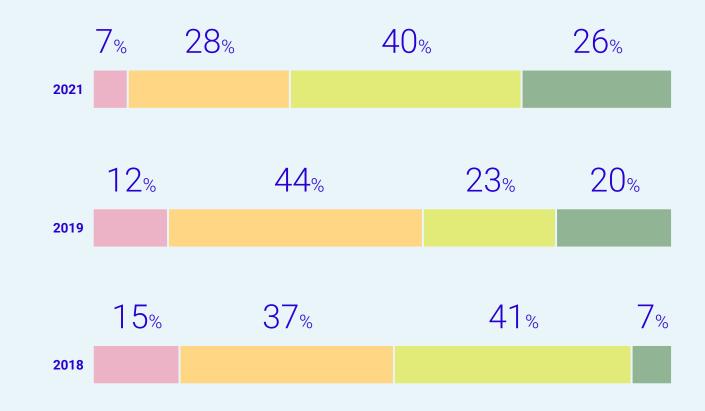






Medium High Elite Low performers performers performers performers Between once a week Between once a day **Deploy or** Less than once a month On demand and once a week release and once a month Between once a week Between once a day Lead time More than one month Less than a day and once a week and once a month Change Above 15% Less than 15% Less than 15% Less than 5% failures **Restore** More than one week Less than one week Less than one day Less than one hour service





How can we become high performers?



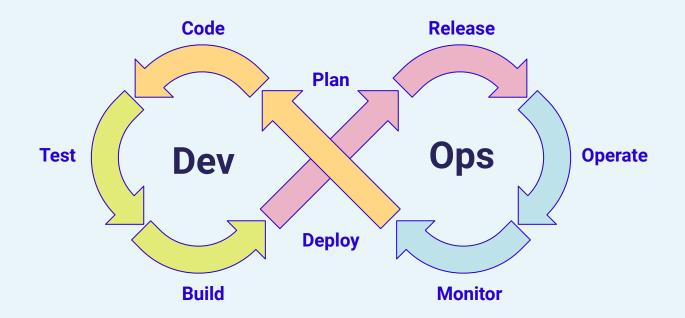




Test



Operate



DevOps is the practice of **development** and **operations** engineers working together through the entire lifecycle of a service

How can we become high performers?

Technical

Version control

Trunk-based development

Continuous integration

Deployment automation

Continuous testing

Continuous delivery

Architecture

Empowering teams

Test data management

Shift left on security

Database change management

Cloud infrastructure

Code maintainability

Process

Team experimentation

Streamlined change approval

Customer feedback

Visibility of work in the value stream

Working in small batches

Measurement

Monitoring for business decisions

Proactive failure notification

Work in process limits

Visual management

Monitoring and observability

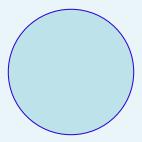
Cultural

Job satisfaction

Westrum organizational culture

Learning culture

Transformational leadership



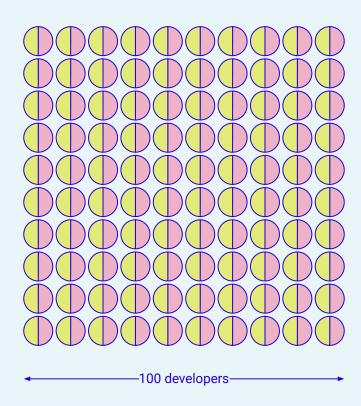
Time spent by one developer

50% effort on value





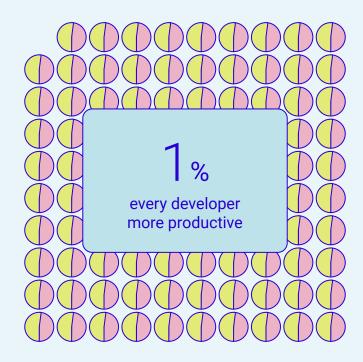
50% effort on value



50% effort on process

50.49% effort on value
↑ 0.49%

99 × 51%



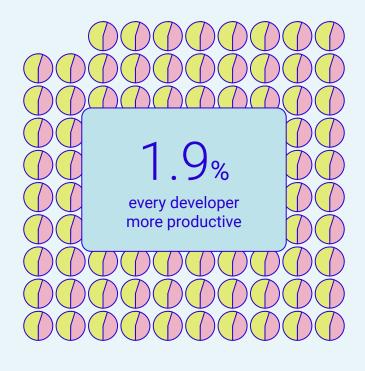
49.51% effort on process 1 0.49%

99 × 49% + 1 × 100%



50.86% effort on value
↑ 0.86%

98 × 51.9%



49.14%

effort on process

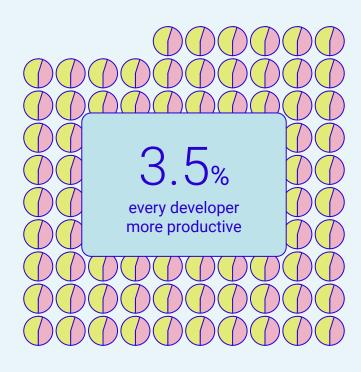
J 0.86%

 $98 \times 48.1\% + 2 \times 100\%$





96 × 53.5%



48.64%

effort on process

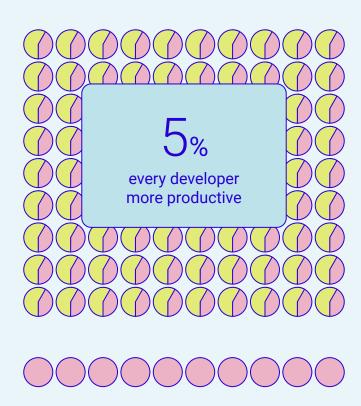
1.36%

 $96 \times 46.5\% + 4 \times 100\%$





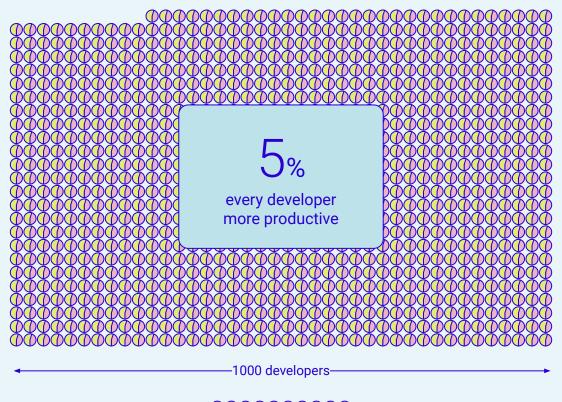
90 × 55%

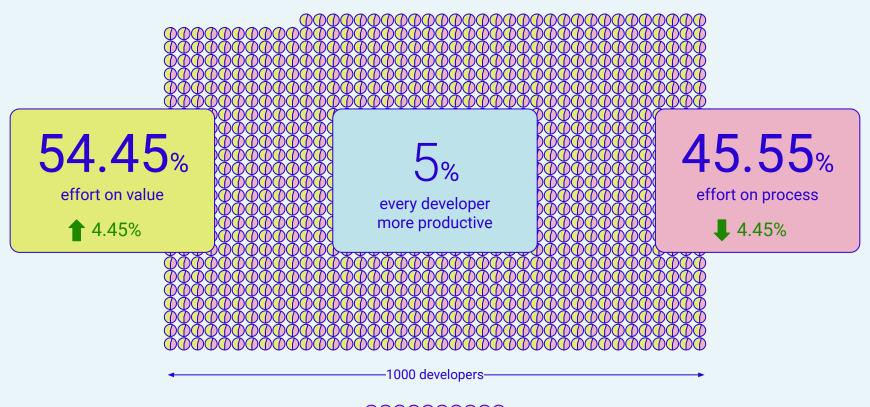


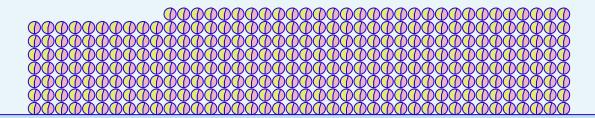
50.5% effort on process

1 0.5%

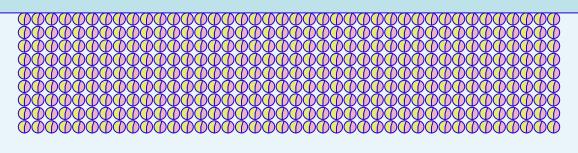
 $90 \times 45\% + 10 \times 100\%$







Platform teams can help us **scale** DevOps practices to the entire organization



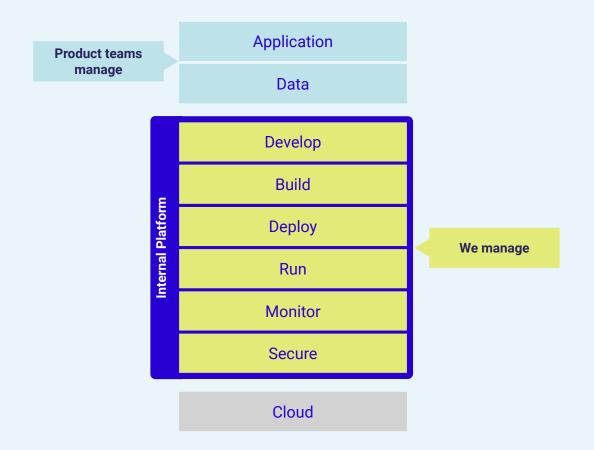
Use a software development platform

We start with the developer journey

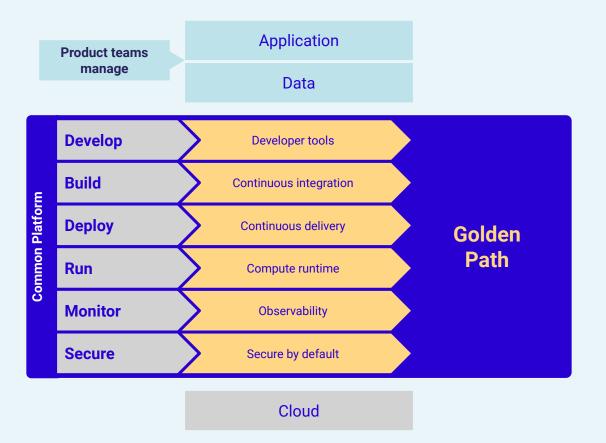
Application Data Develop Build **Product teams** Deploy manage Run Monitor Secure Infrastructure



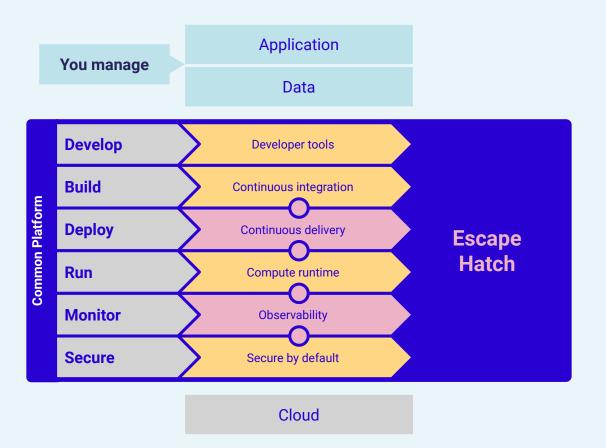
We build the platform as a **product**



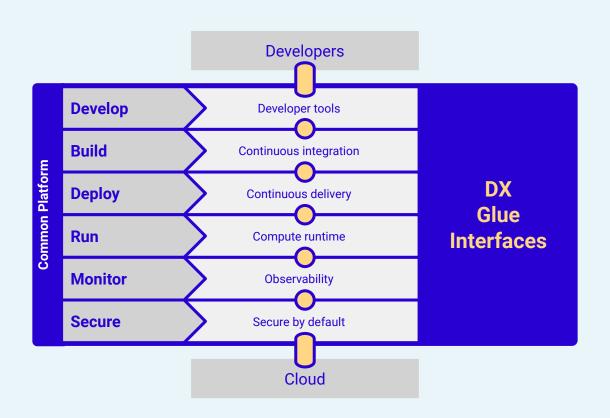
We focus on the common ground



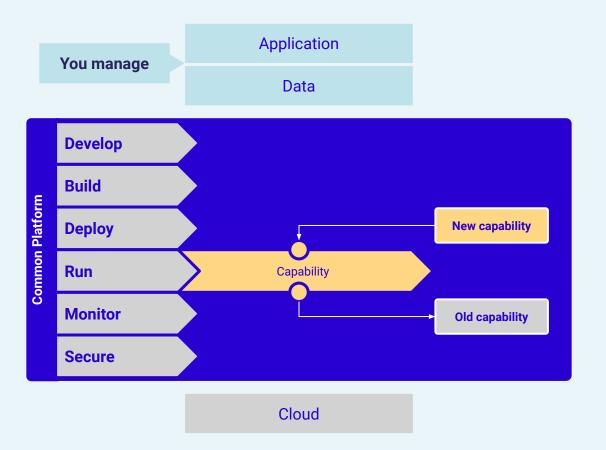
Opt-outs with to escape hatches



Developer experience, glue, interfaces



Designed to evolve with transparent migrations



Know your **metrics**

North Star

Successful Deployments

Elite DevSecOps Developer Experience

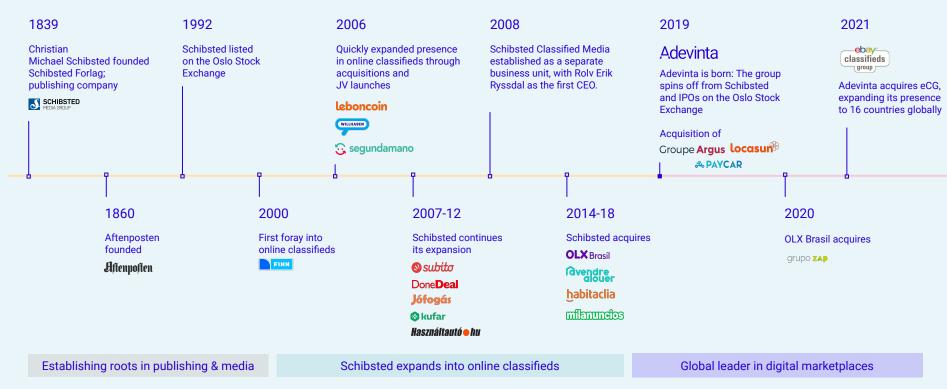
Adoption



Our journey at Adevinta

From Schibsted to Adevinta

180 years of transformation







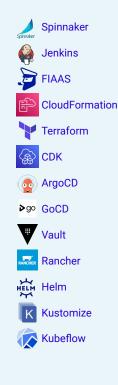
Adevinta's local marketplaces

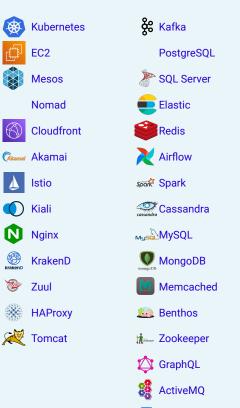
37 brands across 16 countries



Vue.js

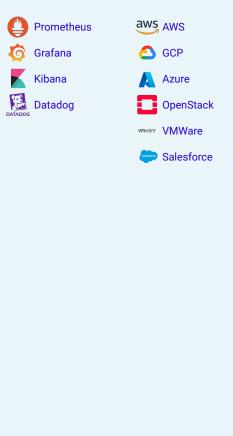






RubSub







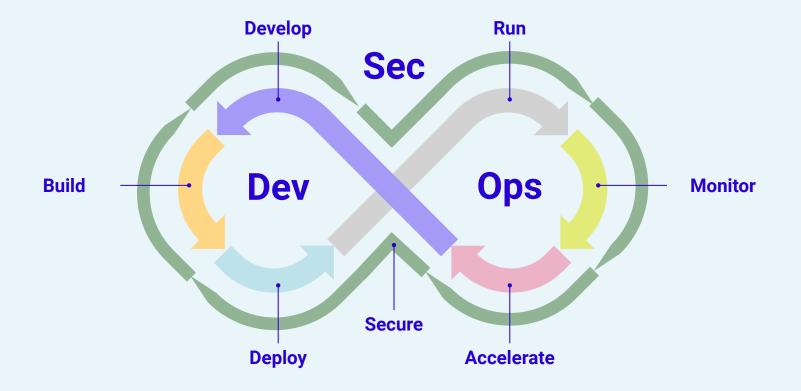
Marko

Flutter

Adevinta's technologies



We built an **internal platform** to enable engineers **develop** and **operate** applications faster.



Provides capabilities for the entire lifecycle of an application

Developer journey

Develop Build **Deploy Accelerate** Secure Run Monitor Code automation Continuous Continuous Managed Operational Insights and tools Security metrics and logs for elite delivery and ChatOps tools integration delivery **Kubernetes** awareness and automation **SCHIP Grafana Cloud Ethical Hacking Travis CI** Spinnaker Ledger **Templates** Metrics dashboards Production ready Security reviews. Continuous delivery Off-the-shelf DevOps metrics and Code scaffolding managed Kubernetes alerts and monitoring penetration testing, continuous integration pipeline cost tracking with integrations as code asset discovery FIAAS Rudder Skynet **Platform Hub Security Advisory Artifactory** Grafana Loki Releases, deps Opinionated Orchestration of Support for security Setup tools and Artifact store abstraction layer for Log aggregation applications updates, auto merges, applications across incidents and non-urgent review assignments Kubernetes **Kubernetes clusters** management portal requests **Quality Gate** Yack Cloudformation **Alert Gateway GSN** Continuous control of Automatically publish Deploy infrastructure as Incident management Network automation the quality of the documentation code and response source code **Plugins & Libs** Java plugin Security **Dependabot Hardened images** Vulcan Automatic security Customized images for monitoring Security vulnerability updates instances and containers Analysis of cloud events scanning

Developer journey

	Develop Source control and tools	Build Continuous integration	Deploy Continuous delivery	Run Cloud compute	Monitor Observability	Accelerate Elite DevOps delivery	Secure Security
	Code templates Scaffolding for microservices	Travis CI Continuous integration	Spinnaker Continuous delivery pipeline	SCHIP Multi-cluster managed Kubernetes	Grafana Cloud Prometheus and Grafana SaaS	Ledger Engineering insights	Vulcan Vulnerability monitoring
Golden Path	Skynet ChatOps and automation	Artifactory Artifact store	FIAAS Kubernetes abstraction layer	GSN Network connectivity	Grafana Loki Log aggregation SaaS	Platform portal Customized developer experience	
	Plugins Build libraries	Quality Gate Code quality checks	Rudder Multi-cluster orchestration and API		Alert Gateway Incident management and response		
	Yack Documentation		Cloudformation Deploy Infrastructure as code				
Adopt	Code templates Market-specific scaffolding	Jenkins Continuous integration	Jenkins Continuous delivery	EC2 AWS compute instances	E(L/F)K Custom logging		
				EKS AWS Kubernetes			
Trial		SonarQube Code quality checks	GitHub Actions Continuous delivery	EKS Multi-cluster EKS			
		GitHub Actions Continuous integration					
Assess			Argo CD Continuous delivery				
			Terraform Deploy infrastructure as code				;

Designed to evolve

	•						
	Develop Source control and tools	Build Continuous integration	Deploy Continuous delivery	Run Cloud compute	Monitor Observability	Accelerate Elite DevOps delivery	Secure Security
	Code templates Scaffolding for microservices	Travis CI Continuous integration	Spinnaker Continuous delivery pipeline	SCHIP Multi-cluster managed Kubernetes	Grafana Cloud Prometheus and Grafana SaaS	Ledger Engineering insights	Vulcan Vulnerability monitoring
n Path	Skynet ChatOps and automation	Artifactory Artifact store	FIAAS Kubernetes abstraction layer	GSN Network connectivity	Grafana Loki Log aggregation SaaS	Platform portal Customized developer experience	
Golden	Plugins Build libraries	Quality Gate Code quality checks	Rudder Multi-cluster orchestration and API		Alert Gateway Incident management and response		
	Yack Documentation		Cloudformation Deploy Infrastructure as code				
Adopt	Code templates Market-specific scaffolding	Jenkins Continuous integration	Jenkins Continuous delivery	EC2 AWS compute instances	E(L/F)K Custom logging		
Ad				EKS AWS Kubernetes			
Trial		SonarQube Code quality checks	GitHub Actions Continuous delivery	EKS Multi-cluster EKS			
Ĕ		GitHub Actions Continuous integration					
Assess			Argo CD Continuous delivery				
Ass			Terraform Deploy infrastructure as code				

Thinnest viable platform

		•					
	Develop Source control and tools	Build Continuous integration	Deploy Continuous delivery	Run Cloud compute	Monitor Observability	Accelerate Elite DevOps delivery	Secure Security
	Code templates Scaffolding for microservices	Travis CI Continuous integration	Spinnaker Continuous delivery pipeline	SCHIP Multi-cluster managed Kubernetes	Grafana Cloud Prometheus and Grafana SaaS	Ledger Engineering insights	Vulcan Vulnerability monitoring
n Path	Skynet ChatOps and automation	Artifactory Artifact store	FIAAS Kubernetes abstraction layer	GSN Network connectivity	Grafana Loki Log aggregation SaaS	Platform portal Customized developer experience	
Golden	Plugins Build libraries	Quality Gate Code quality checks	Rudder Multi-cluster orchestration and API		Alert Gateway Incident management and response		
	Yack Documentation		Cloudformation Deploy Infrastructure as code				
opt	Code templates Market-specific scaffolding	Jenkins Continuous integration	Jenkins Continuous delivery	EC2 AWS compute instances	E(L/F)K Custom logging		
Adopt				EKS AWS Kubernetes			
Trial		SonarQube Code quality checks	GitHub Actions Continuous delivery	EKS Multi-cluster EKS			
F		GitHub Actions Continuous integration					
Assess			Argo CD Continuous delivery				
Ass			Terraform Deploy infrastructure as code				

Using escape hatches

	Develop Source control and tools	Build Continuous integration	Deploy Continuous delivery	Run Cloud compute	Monitor Observability	Accelerate Elite DevOps delivery	Secure Security
	Code templates Scaffolding for microservices	Travis CI Continuous integration	Spinnaker Continuous delivery pipeline	SCHIP Multi-cluster managed Kubernetes	Grafana Cloud Prometheus and Grafana SaaS	Ledger Engineering insights	Vulcan Vulnerability monitoring
ו Path	Skynet ChatOps and automation	Artifactory Artifact store	FIAAS Kubernetes abstraction layer	GSN Network connectivity	Grafana Loki Log aggregation SaaS	Platform portal Customized developer experience	
Golden Path	Plugins Build libraries	Quality Gate Code quality checks	Rudder Multi-cluster orchestration and API		Alert Gateway Incident management and response		
	Yack Documentation		Cloudformation Deploy Infrastructure as code				
Ĕ	Code templates Market-specific scaffolding	Jenkins Continuous integration	Jenkins Continuous delivery	EC2 AWS compute instances	E(L/F)K Custom logging		
Adopt				EKS AWS Kubernetes			
a		SonarQube Code quality checks	GitHub Actions Continuous delivery	EKS Multi-cluster EKS			
Trial		GitHub Actions Continuous integration					
SS			Argo CD Continuous delivery				
Assess			Terraform Deploy infrastructure as code				34

Transparent migrations

On the platform

2

developers for a month

250

repositories

Off the platform

180

pull requests

40

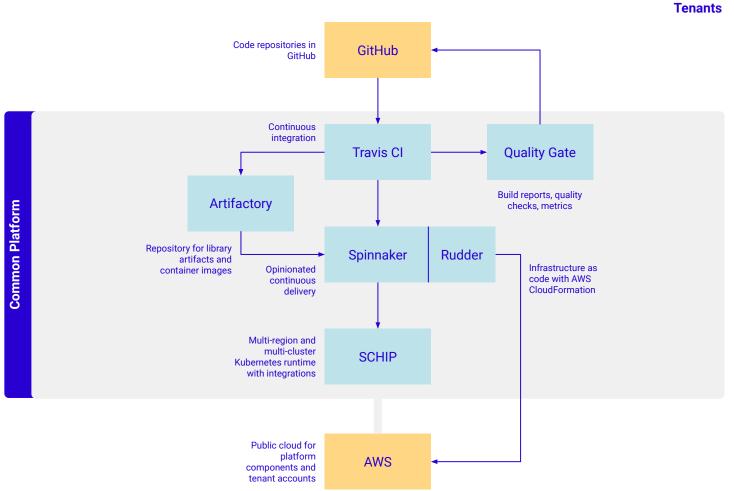
developers

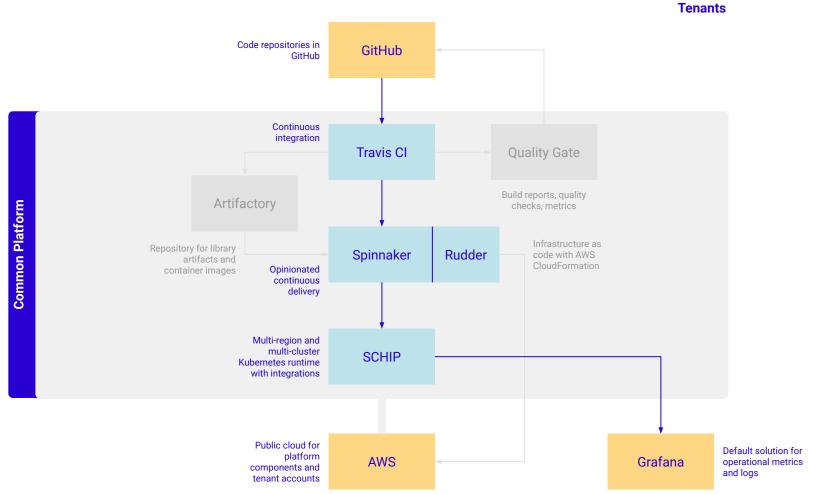
60+

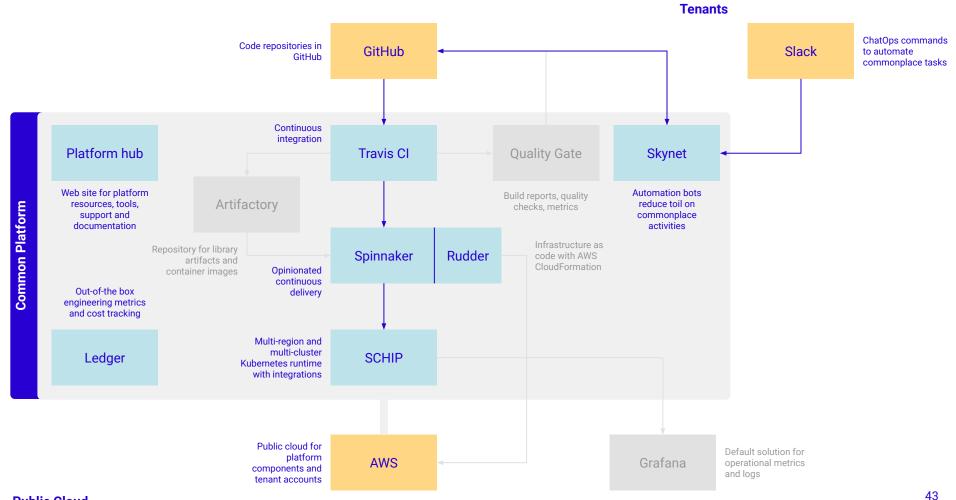
reviewers

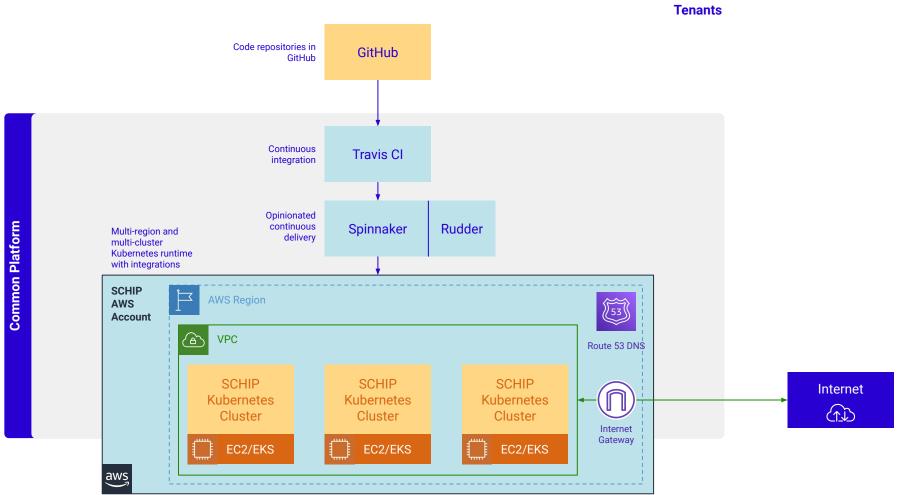
20x

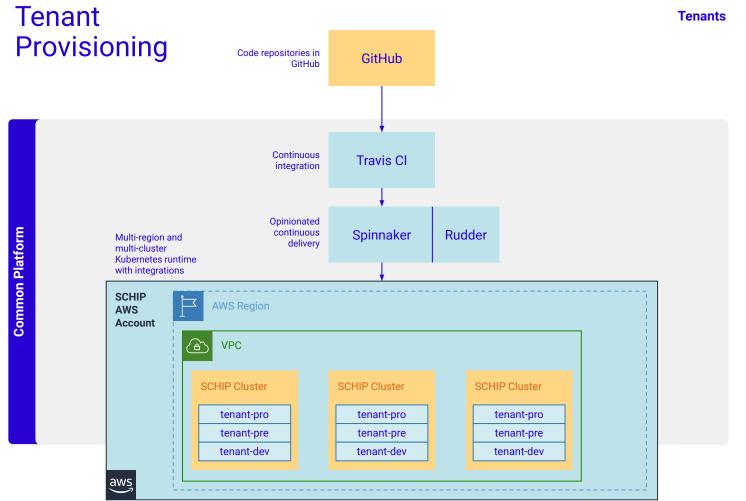
less effort

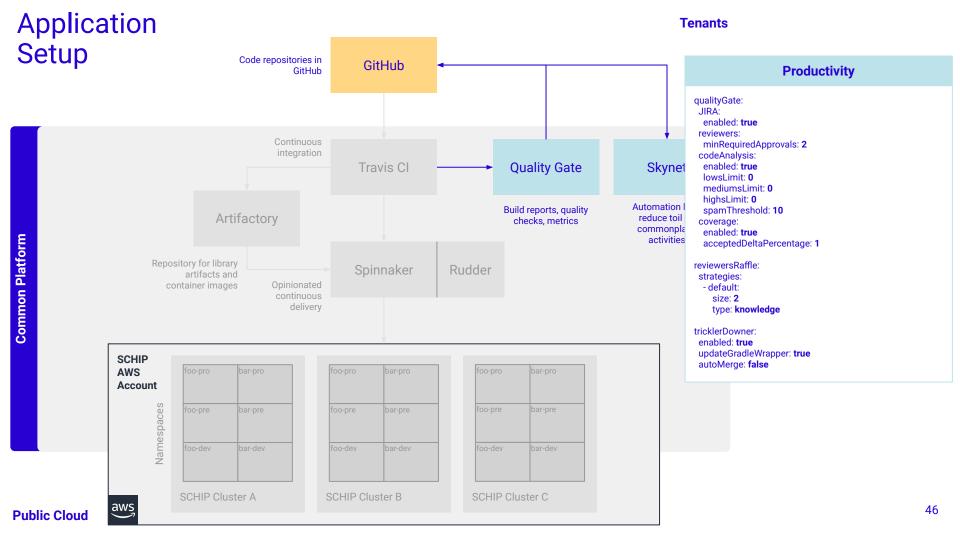


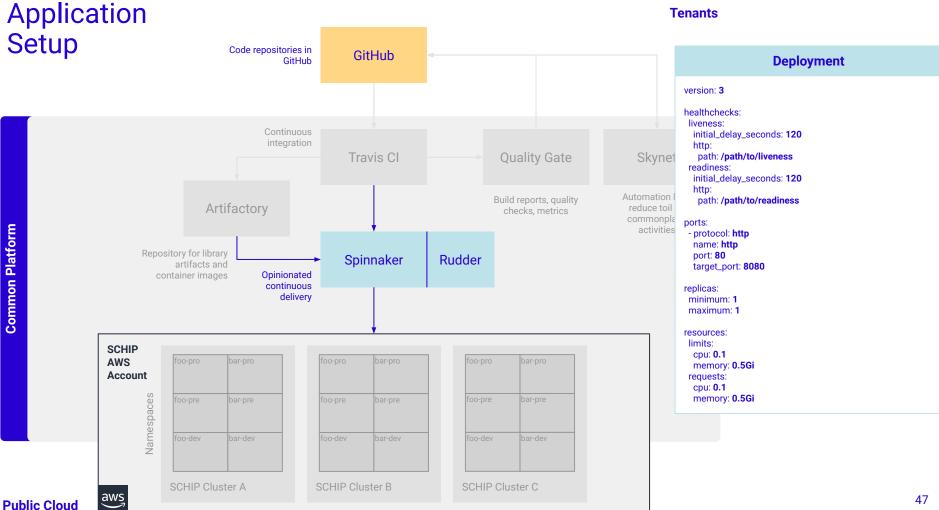


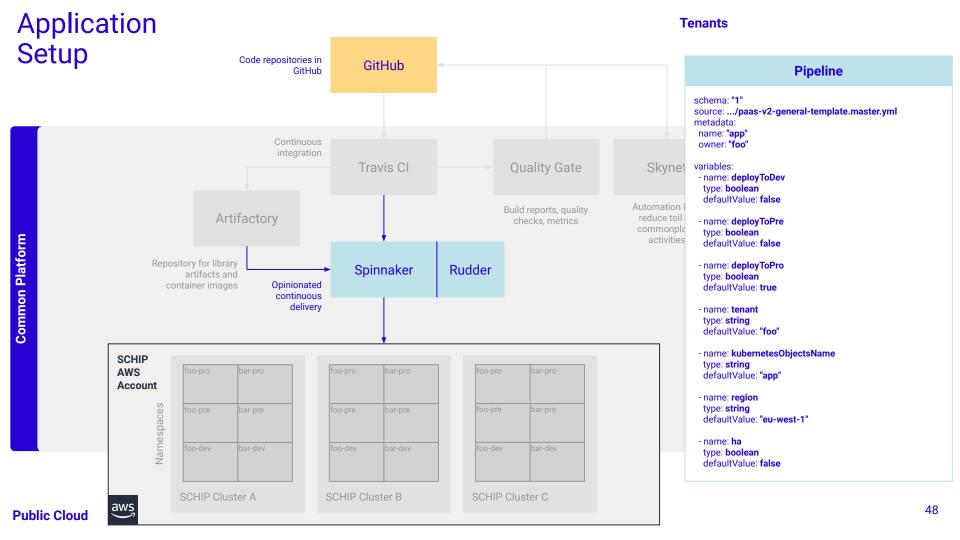


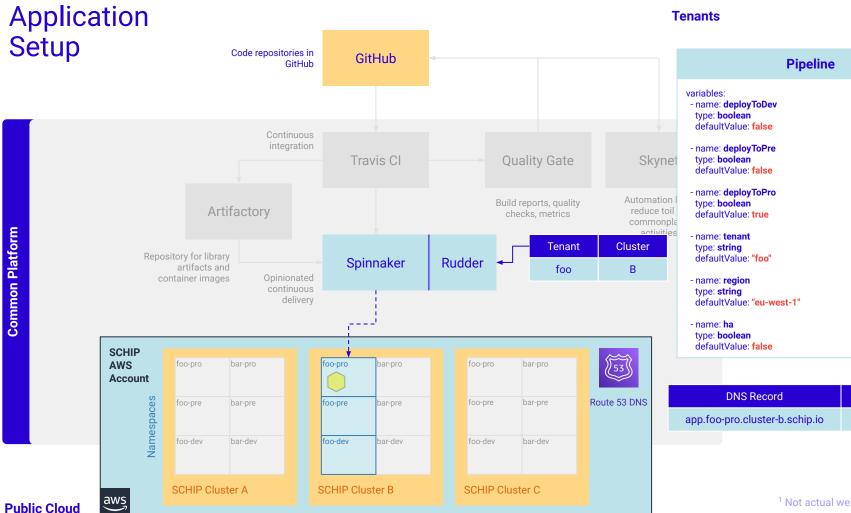












	Pipeline
	variables: - name: deployToDev type: boolean defaultValue: false
e1	- name: deployToPre type: boolean defaultValue: false
n l	- name: deployToPro type: boolean defaultValue: true
es	- name: tenant type: string defaultValue: " foo "
	- name: region type: string defaultValue: " <mark>eu-west-1</mark> "
	- name: ha type: boolean defaultValue: false

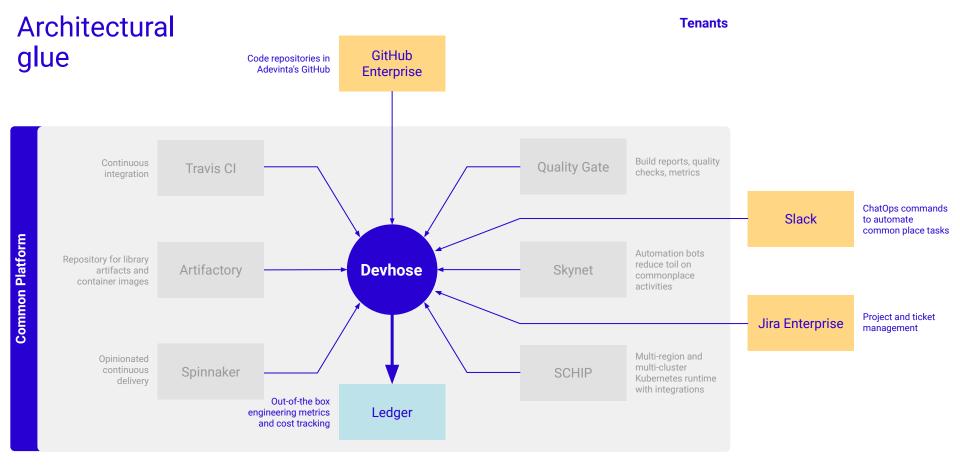
DNS Record	Weight ¹
app.foo-pro.cluster-b.schip.io	100

Application Setup Code repositories in GitHub GitHub Continuous integration Travis CI **Quality Gate** Skyne Build reports, quality Artifactory reduce toi checks, metrics commonp **Common Platform** activitie **Tenant** Cluster Repository for library Rudder Spinnaker artifacts and container images Opinionated foo continuous С delivery **SCHIP** 53 foo-pro AWS bar-pro foo-pro bar-pro foo-pro bar-pro Account Namespaces Route 53 DNS foo-pre foo-pre foo-pre bar-pre bar-pre bar-pre foo-dev bar-dev foo-dev bar-dev foo-dev bar-dev SCHIP Cluster A SCHIP Cluster B SCHIP Cluster C **Public Cloud**

Tenants

	Pipeline
	variables: - name: deployToDev type: boolean defaultValue: false
e1	- name: deployToPre type: boolean defaultValue: false
n l	- name: deployToPro type: boolean defaultValue: true
es	- name: tenant type: string defaultValue: " foo "
	- name: region type: string defaultValue: "eu-west-1 "
	- name: ha type: boolean defaultValue: true

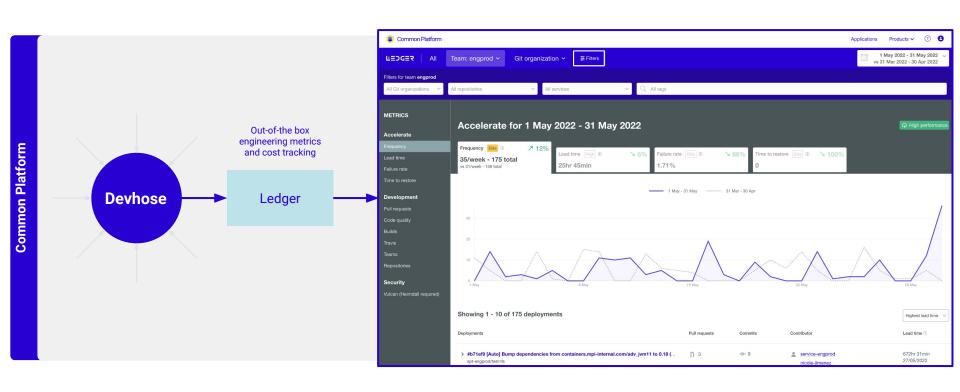
DNS Record	Weight ¹
app.foo-pro.cluster-b.schip.io	50
app.foo-pro.cluster-c.schip.io	50





Tenants

Engineering insights





Let's have a look

Our journey and lessons learned

2017

Create a platform services team to consolidate infrastructure and software development services 2018

Create a Golden Path with tooling already provided globally to the organization 2019

Nail the MVP with a focus on automated self-service onboarding on the Golden Path but with enough escape hatches to enable teams to keep desired capabilities

2020

Enhance the developer experience with a developer portal to help product teams unfamiliar with the new technologies

Scale the platform with multi-cluster Kubernetes and refined insights

2021

2022

Modernize and consolidate the platform capabilities while enabling other teams to extend and build on top

Let's recap

Thank you







Remember to rate this session

THANK YOU!





#GOTOams