Golden Path to Production

with Tanzu Platform

on Private Cloud

Oren Penso & Neven Cvetkovic

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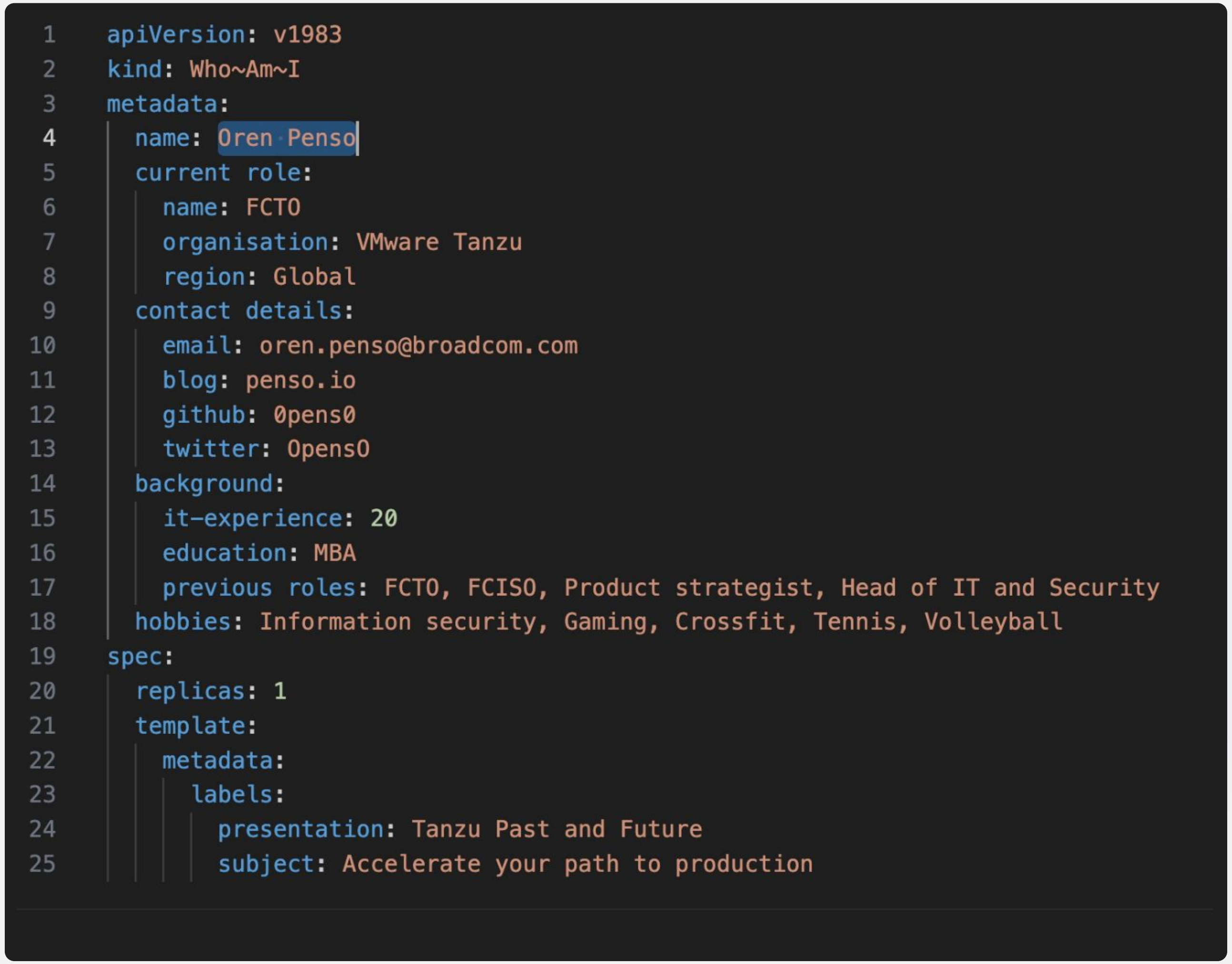

```yaml
apiVersion: v1983
kind: Who~Am~I
metadata:
  name: Oren Penso
  current role:
    name: FCTO
    organisation: VMware Tanzu
    region: Global
  contact details:
    email: oren.penso@broadcom.com
    blog: penso.io
    github: 0pens0
    twitter: Opens0
  background:
    it-experience: 20
    education: MBA
    previous roles: FCTO, FCISO, Product strategist, Head of IT and Security
  hobbies: Information security, Gaming, Crossfit, Tennis, Volleyball
spec:
  replicas: 1
  template:
    metadata:
      labels:
        presentation: Tanzu Past and Future
        subject: Accelerate your path to production
```

Oren Penso

Tanzu CTO, Broadcom

```
{
    "name": "Neven Cvetkovic",
    "role": "Tanzu Solution Architect",
    "company": "Broadcom, VMware Tanzu",
    "email": "neven@broadcom.com",
    "linkedin": "https://www.linkedin.com/in/neven",
    "github": "https://github.com/nevenc"
}
```

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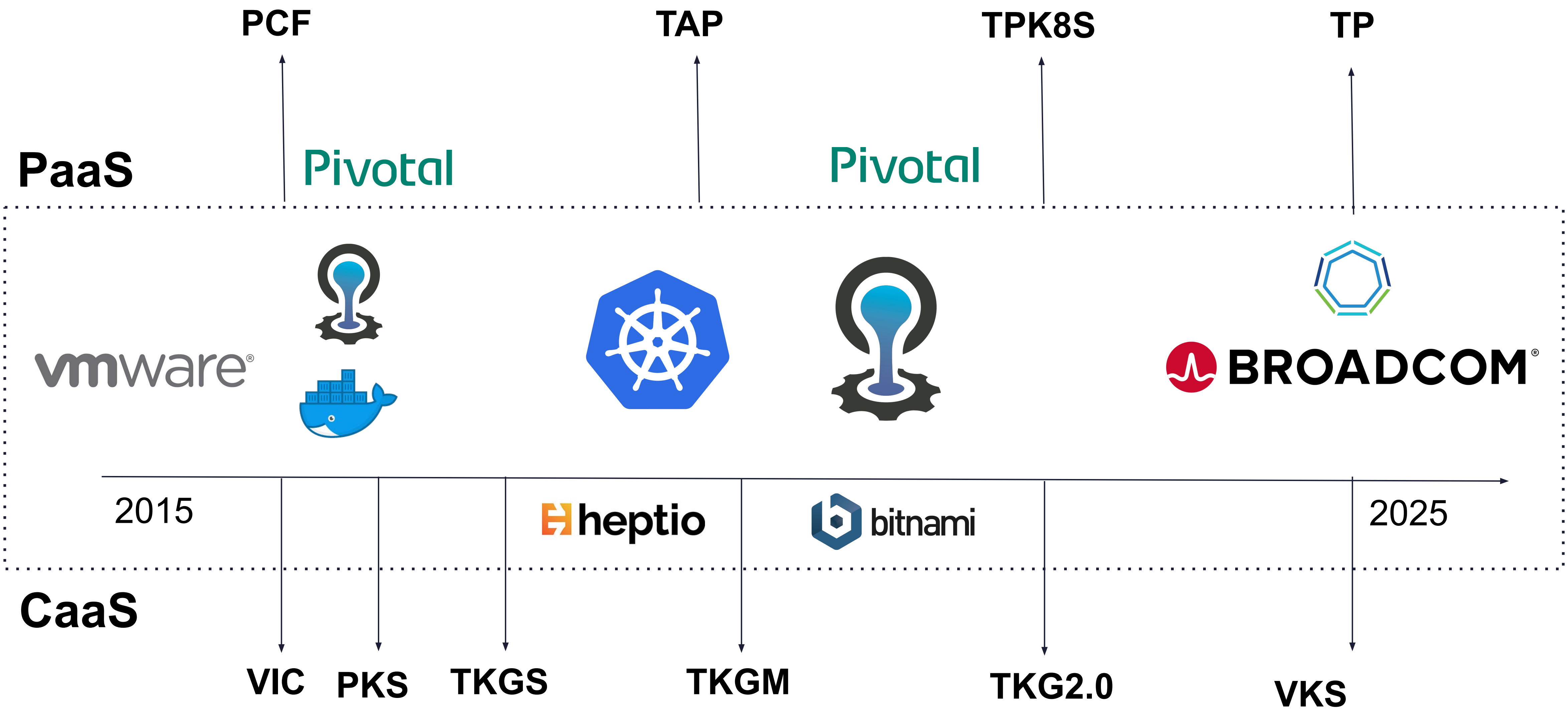
My personal journey (Technology stack)



PCF
TAP
TPK8S
TP

PaaS

CaaS

2015
2025

VIC
PKS
TKGS
TKGM
TKG2.0
VKS

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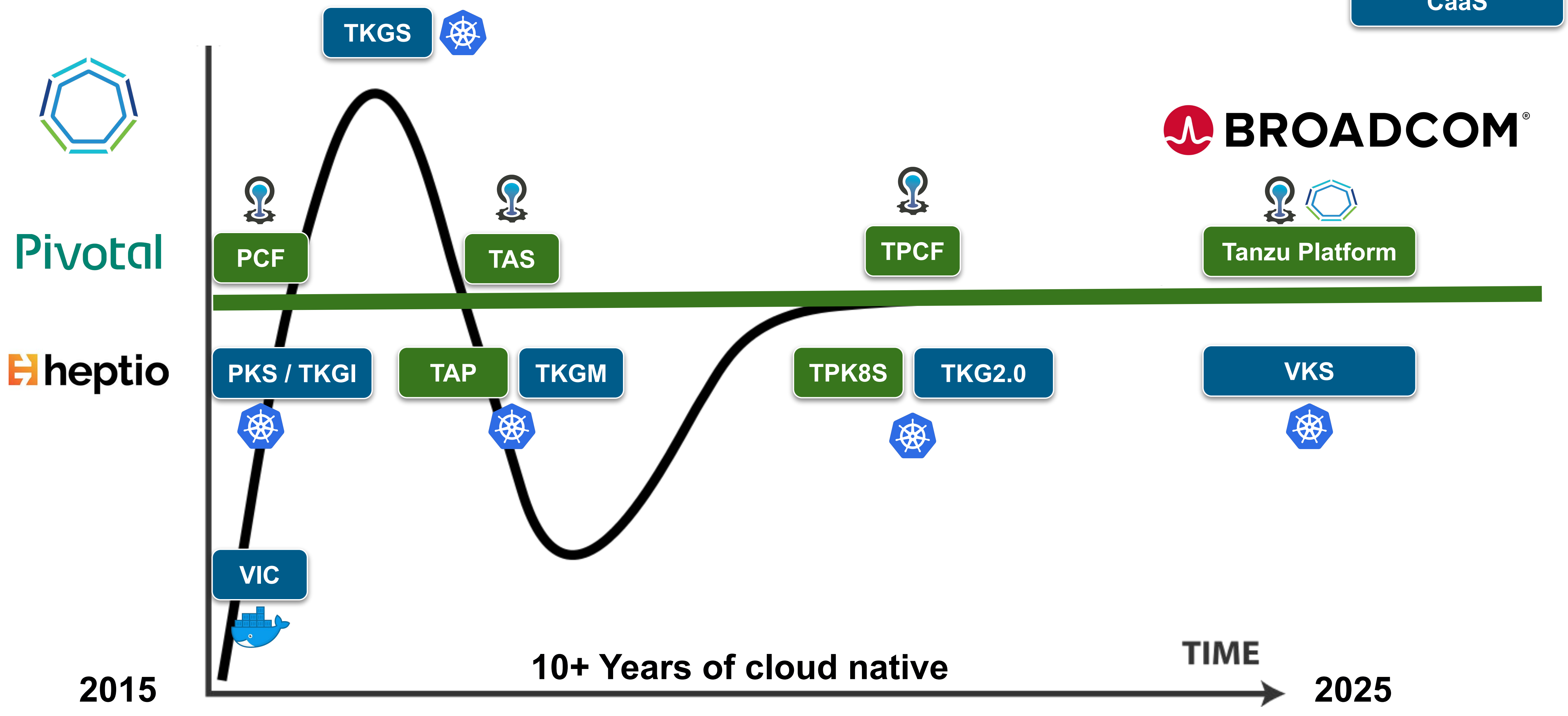

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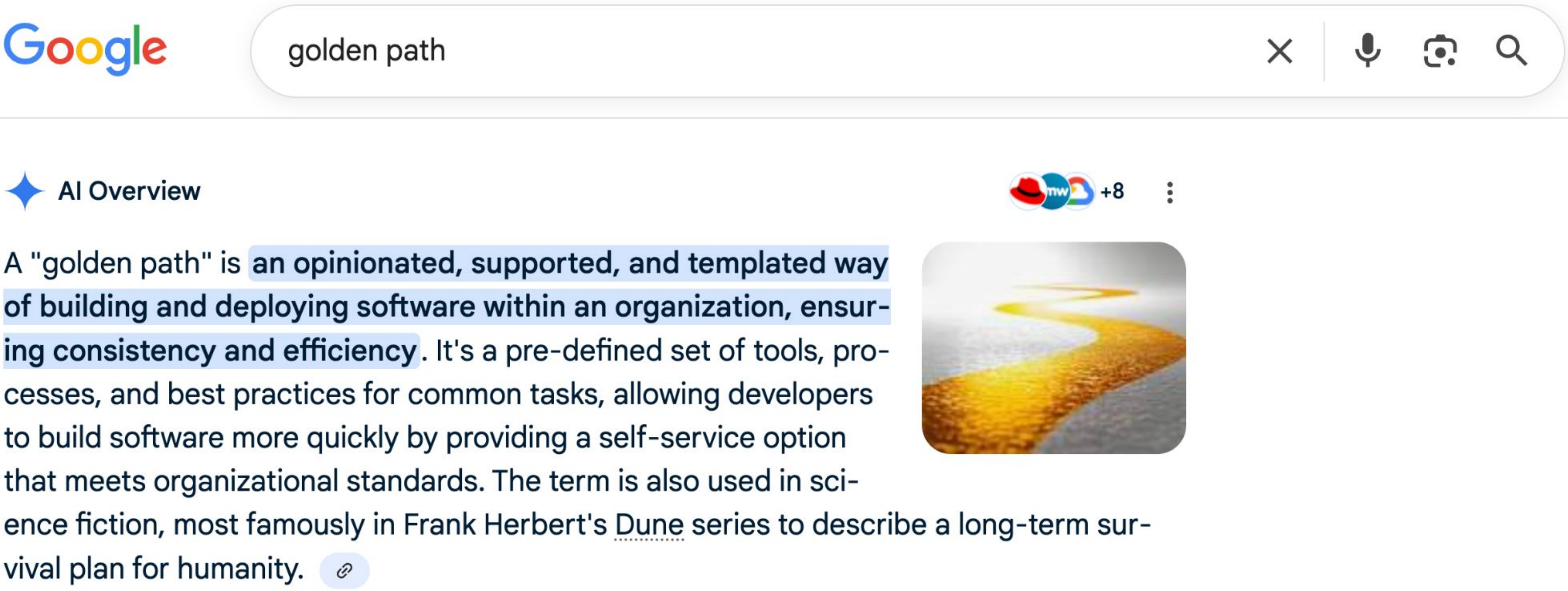

A "golden path" is **an opinionated, supported, and templated way of building and deploying software within an organization, ensuring consistency and efficiency**. It's a pre-defined set of tools, processes, and best practices for common tasks, allowing developers to build software more quickly by providing a self-service option that meets organizational standards. The term is also used in science fiction, most famously in Frank Herbert's Dune series to describe a long-term survival plan for humanity.

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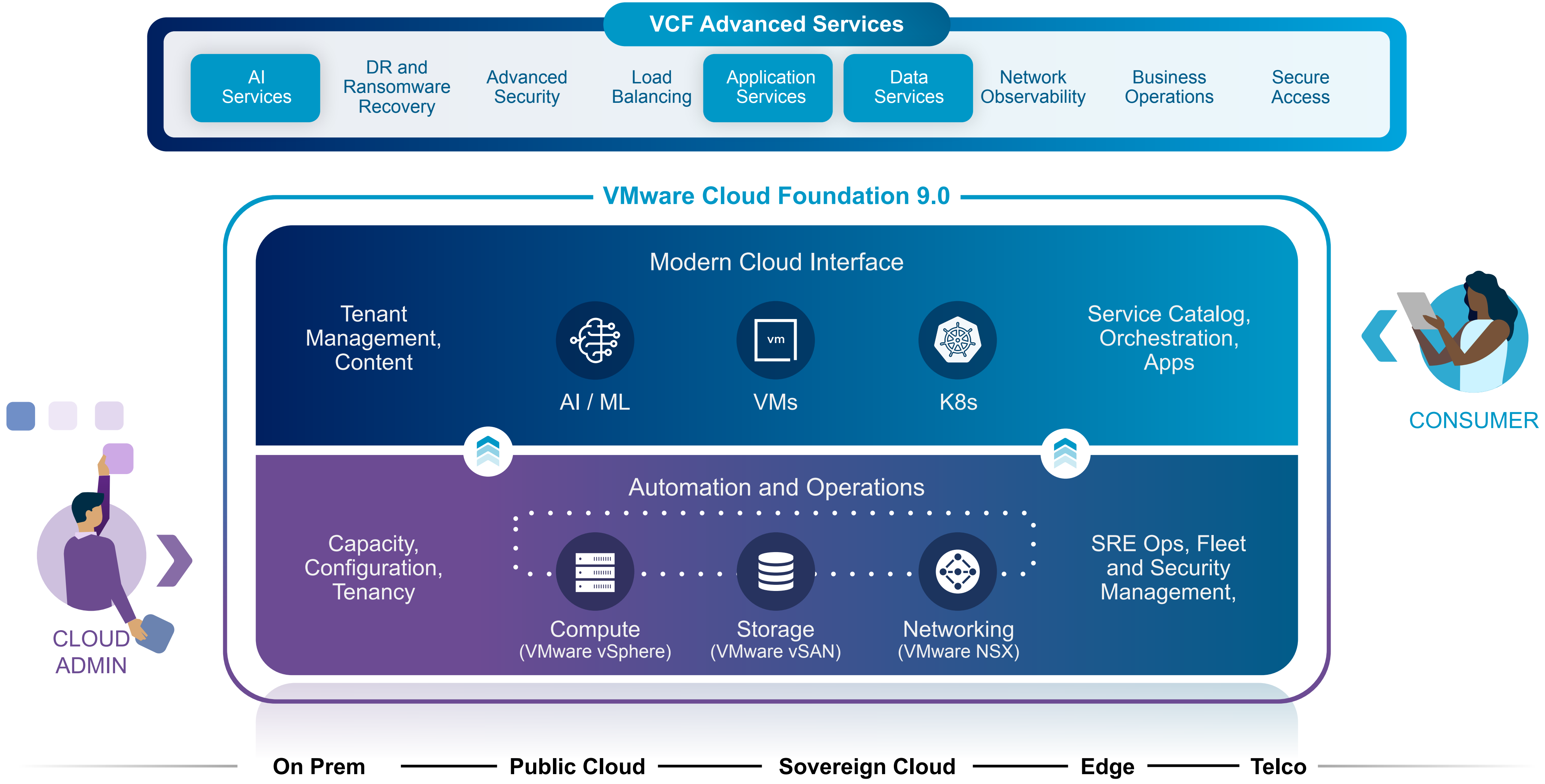
Tanzu: Delivering advanced application, AI, and data services on VCF



VCF Advanced Services

- AI Services
- DR and Ransomware Recovery
- Advanced Security
- Load Balancing
- Application Services
- Data Services
- Network Observability
- Business Operations
- Secure Access

VMware Cloud Foundation 9.0

Modern Cloud Interface

Tenant Management, Content

AI / ML

VMs

K8s

Service Catalog, Orchestration, Apps

Automation and Operations

Capacity, Configuration, Tenancy

Compute (VMware vSphere)

Storage (VMware vSAN)

Networking (VMware NSX)

SRE Ops, Fleet and Security Management,

CLOUD ADMIN

CONSUMER

On Prem — **Public Cloud** — **Sovereign Cloud** — **Edge** — **Telco**

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Application and data stacks are rapidly evolving to capitalize on AI

	Cloud-Native	AI-Native
App Dev	IDEs, CI/CD	Code-assistants & AI tools
App Stack	Infra as code, DevSecOps	PaaS, elastic scaling
Data	Siloed databases, ETL pipelines	Lakehouses, vectorization, lineage
Analytics	Machine learning, big data	Foundation models, embeddings
CaaS & IaaS	Containers, YAML	AI-ready infra

Winners will have **integrated stack** (app, data, AI) with common safety & governance

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VMware Tanzu with VCF delivers the only private agentic AI stack

Public Cloud Example		VMware Tanzu + VMware Cloud Foundation
Ex. **Google Vertex AI**, Azure AI Foundry, AWS Bedrock	Agentic AI services	Tanzu Platform
Ex. **Google Cloud Run**, Azure App Service, AWS App Runner	Platform as-a-service	
Ex. **Google BigQuery**, AWS Redshift, Azure Glue	AI-ready data	Tanzu Data Intelligence
Ex. Google GCE/GKE, Azure AKS, AWS EC2, EKS, ECS	AI-ready infrastructure	VMware Cloud Foundation

With a PaaS and Data Platform, Tanzu customers achieved:

200:1	developer to platform engineer ratio
93%	reduction in unplanned app/platform downtime
5X	improvement in developer productivity
75%	reduction in time to deploy or patch apps
99.6%	Reduction in query processing time

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Different personas, different needs

App Team Wants

Central IT/ Platform Team delivers

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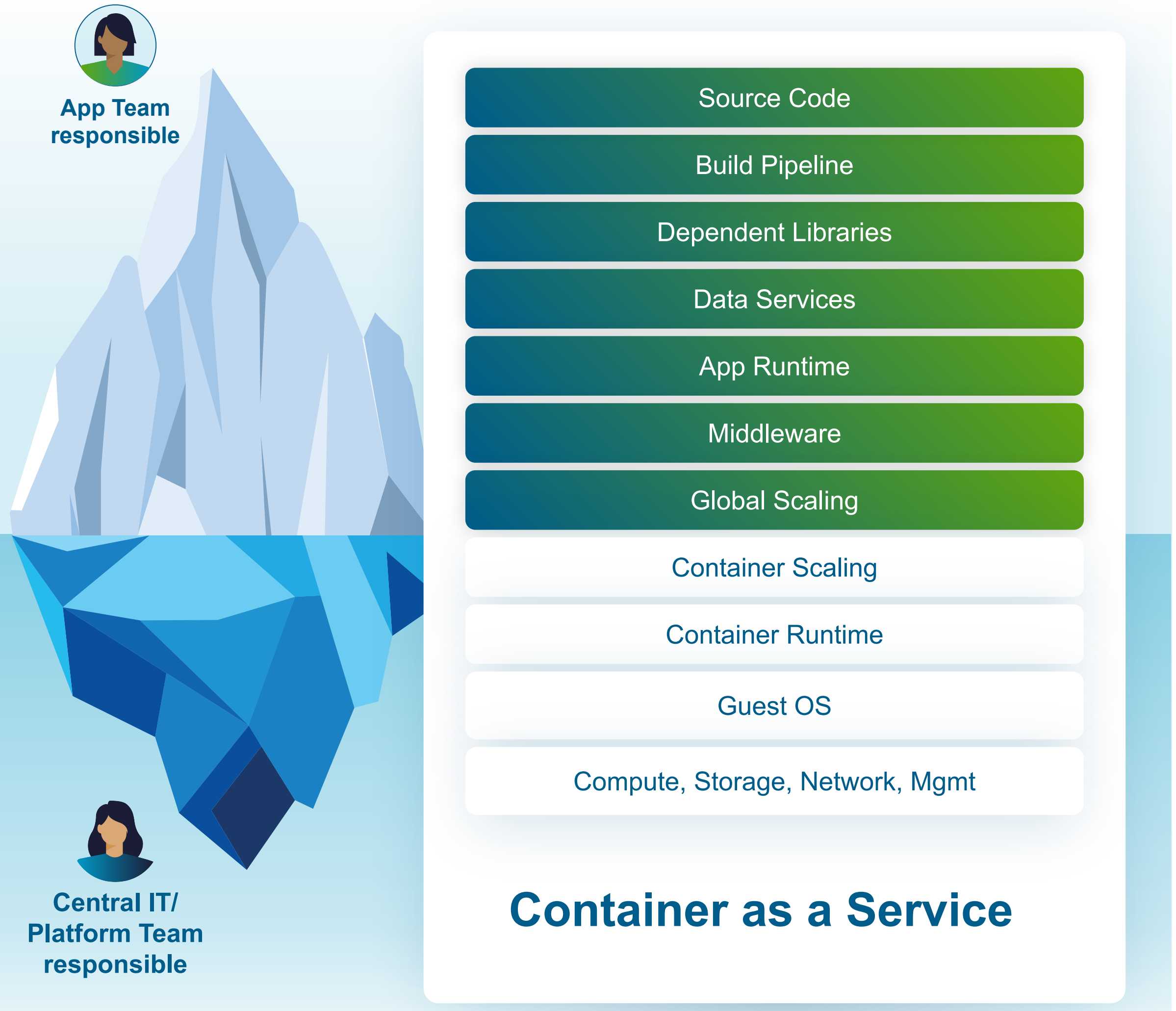
Source: DORA, Accelerate State of DevOps Report, 2024.

Opinionated PaaS enables faster iteration and greater efficiency

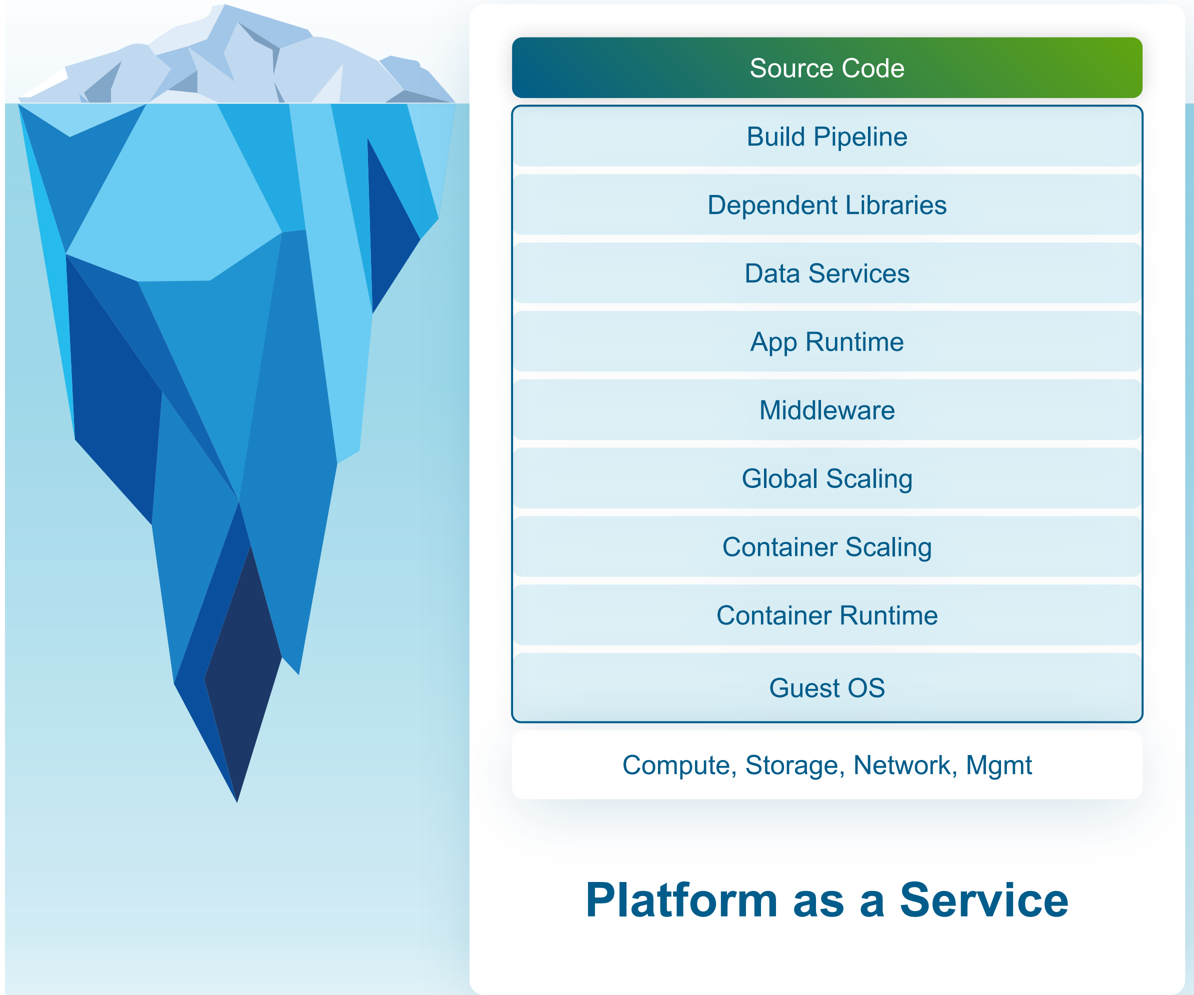


App Team responsible

Central IT/ Platform Team responsible

- Source Code
- Build Pipeline
- Dependent Libraries
- Data Services
- App Runtime
- Middleware
- Global Scaling
- Container Scaling
- Container Runtime
- Guest OS
- Compute, Storage, Network, Mgmt

Container as a Service



- Source Code
- Build Pipeline
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Platform as a Service

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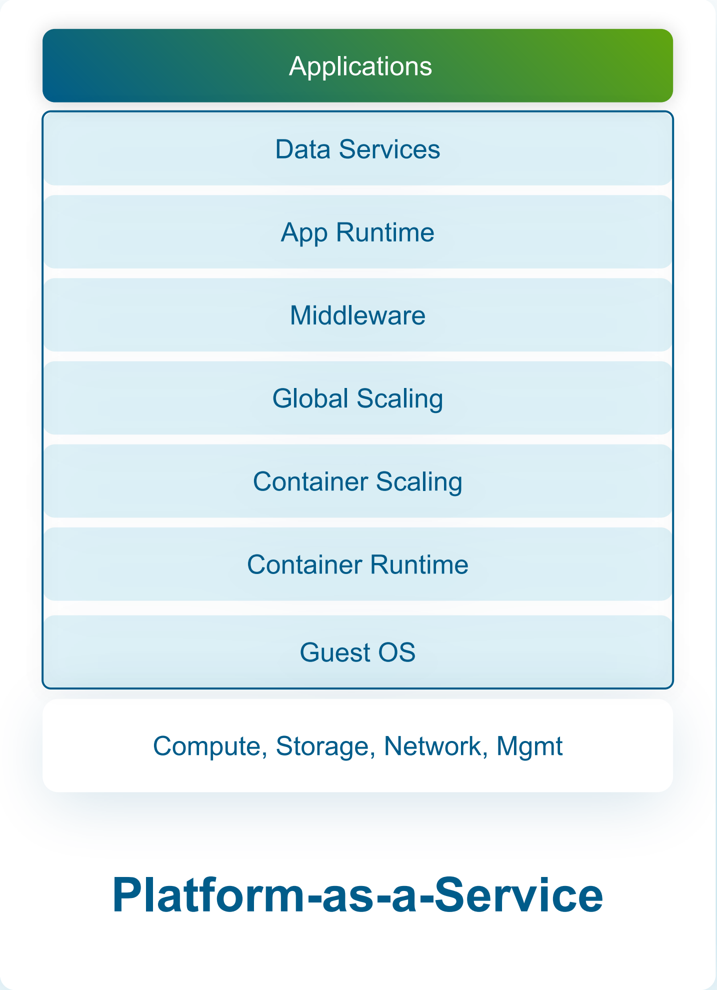
Tanzu == The App ecosystem

“Here is my code.
Run it for me.
I do not care how.”



Applications

Data Services

App Runtime

Middleware

Global Scaling

Container Scaling

Container Runtime

Guest OS

Compute, Storage, Network, Mgmt

Platform-as-a-Service

With Platform-as-a-Service, Tanzu customers achieved

200:1
developer to platform engineer ratio

93%
reduction in unplanned app/platform downtime

5X
improvement in developer productivity

75%
reduction in time to deploy or patch apps

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The BEST PaaS
on
The BEST private cloud

Private cloud services

Unified Runtimes, Infrastructure Services, and Advanced Capabilities via a Declarative API

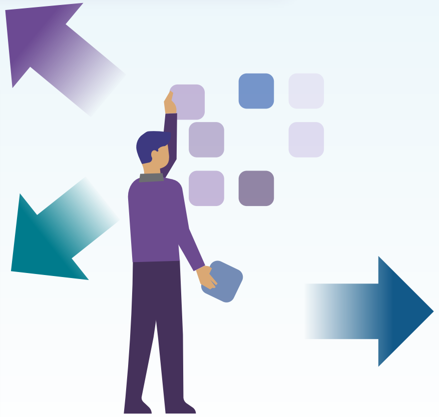
Cloud Services

Runtimes

- Kubernetes Service (VKS)
- VM Service
- vSphere Pod Service
- Tanzu Platform

Infrastructure Services

- Load Balancer Service
- Storage Service (Block, File, Object**)
- Network Service



Additional Cloud Services

- Tanzu Platform
- Data Services
- AI Services
- Kubernetes Management Service**
- Prometheus
- Harbor Image Registry
- Telegraf
- Istio Service Mesh
- FluentBit
- External DNS
- Antrea
- ArgoCD
- Calico
- Secret Service
- Cert-Manager
- Velero
- Contour

Partner Services

Veeam, Cohesity, …

EXPLORE

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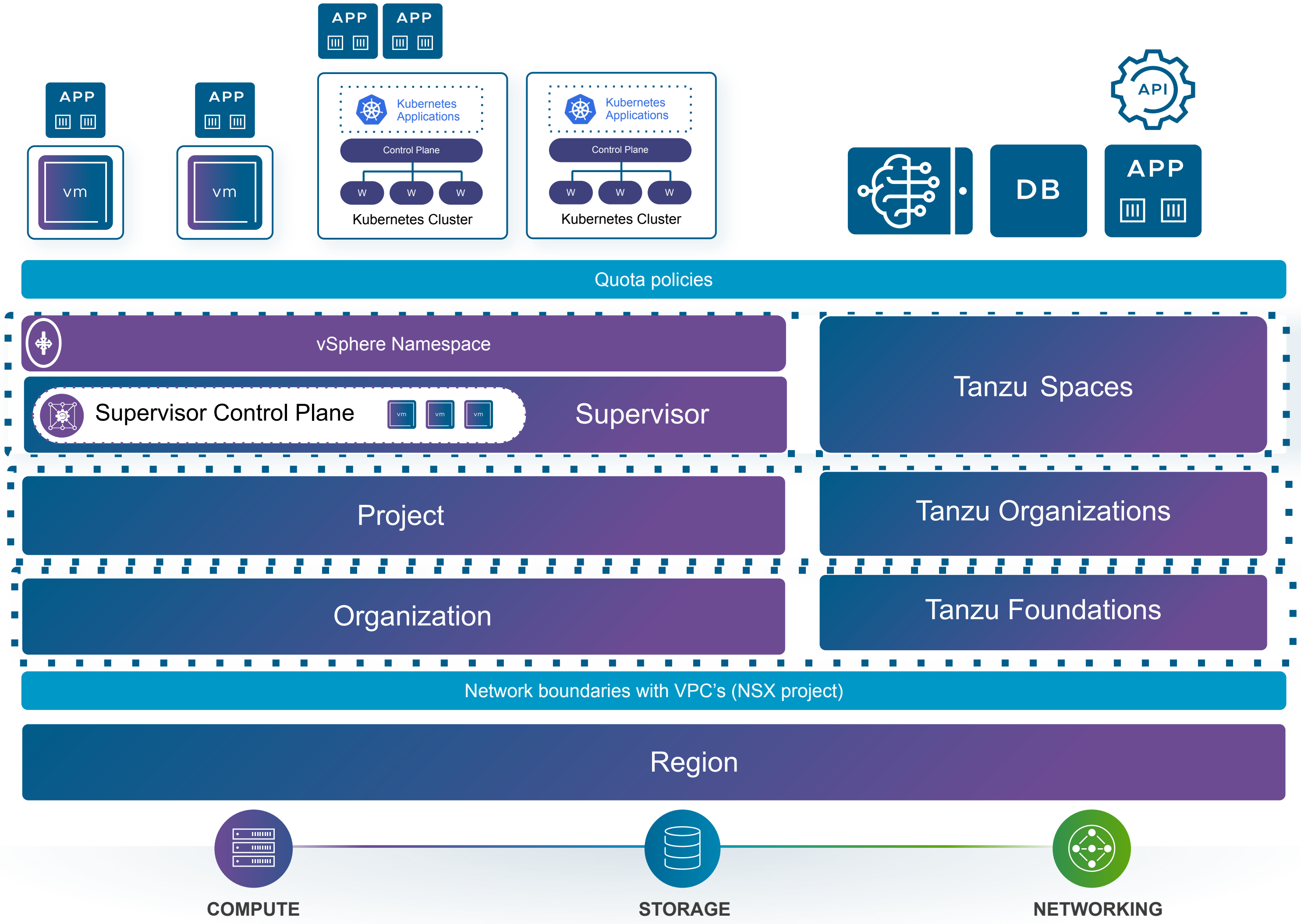
Tanzu Platform on VCF 9.0

PaaS and CaaS options for your path to production



Quota policies

vSphere Namespace

Supervisor Control Plane

Supervisor

Tanzu Spaces

Project

Tanzu Organizations

Organization

Tanzu Foundations

Network boundaries with VPC's (NSX project)

Region

COMPUTE

STORAGE

NETWORKING

Choose how to go from code to prod:

- CaaS option with VKS clusters and Kubernetes driven CI/CD
- PaaS option for a pre engineered CI/CD platform experience
- Different path for different use case, land homegrown Java Spring applications on PaaS and COTS on CaaS with the same private cloud structures, boundaries and guardrails

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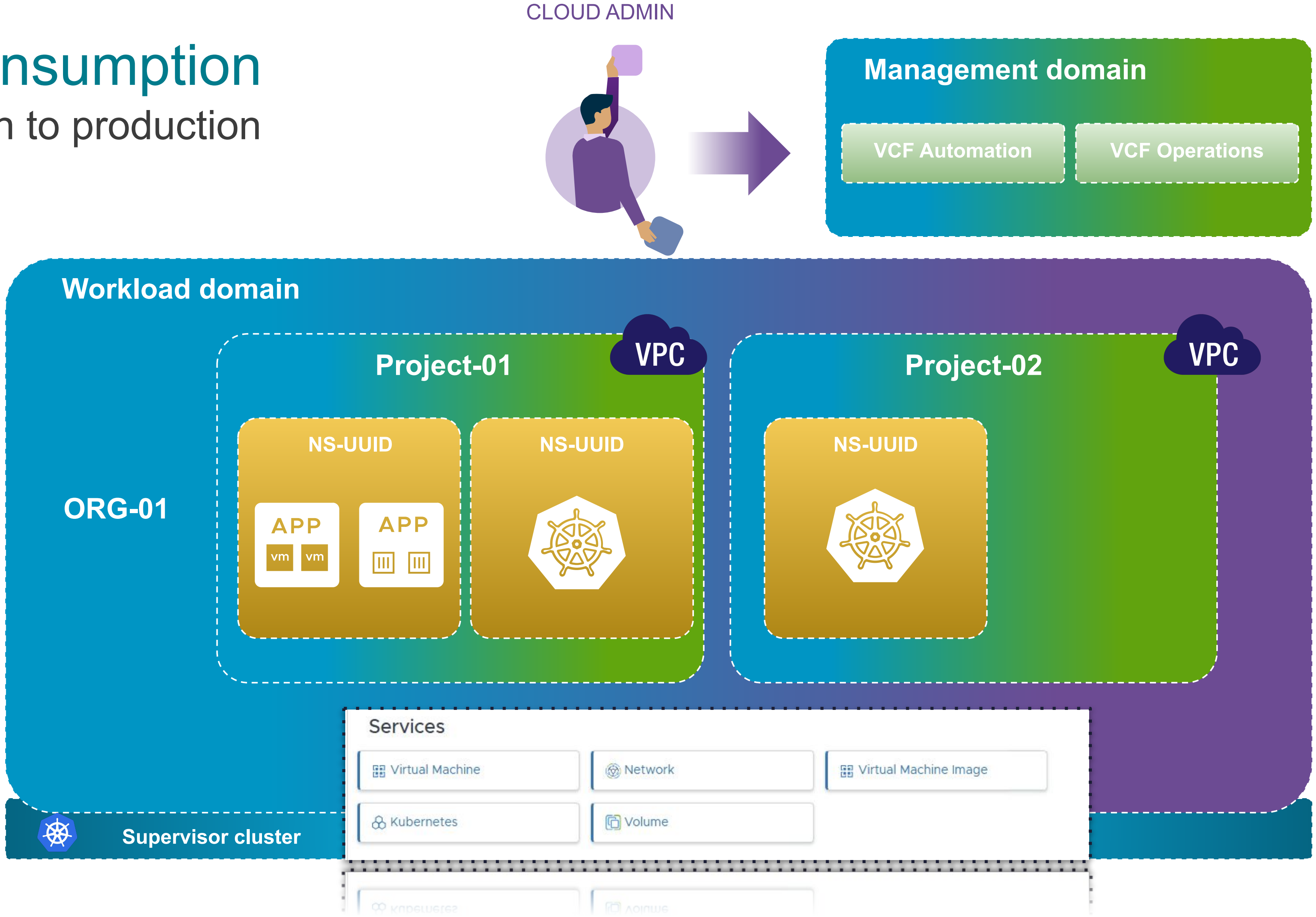
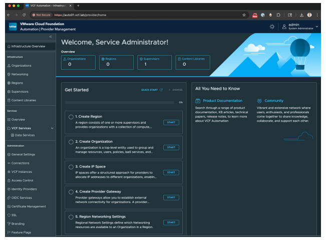
VCFA CaaS consumption

CaaS options for path to production



VCF Automation



Welcome, Service Administrator!

Overview

Organizations	Regions	Supervisors	Content Libraries
0	0	1	0

Get Started

QUICK START ✕ DISMISS

0%

○ 1. Create Region
A region consists of one or more supervisors and provides organizations with a collection of compute,... START

○ 2. Create Organization
An organization is a top-level entity used to group and manage resources, users, policies, IaaS services, and... START

○ 3. Create IP Space
IP spaces offer a structured approach for providers to allocate IP addresses to different organizations, enablin... START

○ 4. Create Provider Gateway
Provider gateways allow you to establish external network connectivity for organizations. A provider... START

○ 5. Region Networking Settings
Regional Network Settings define which Networking resources are available to an Organization in a Region. START

All You Need to Know

Product Documentation
Search through a range of product documentation, KB articles, technical papers, release notes, to learn more about VCF Automation

Community
Vibrant and extensive network where users, enthusiasts, and professionals come together to share knowledge, collaborate, and support each other.

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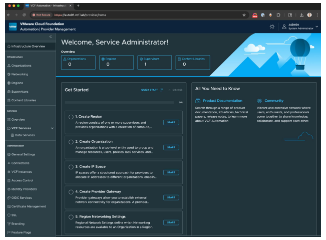
VCFA PaaS consumption

PaaS options for path to production

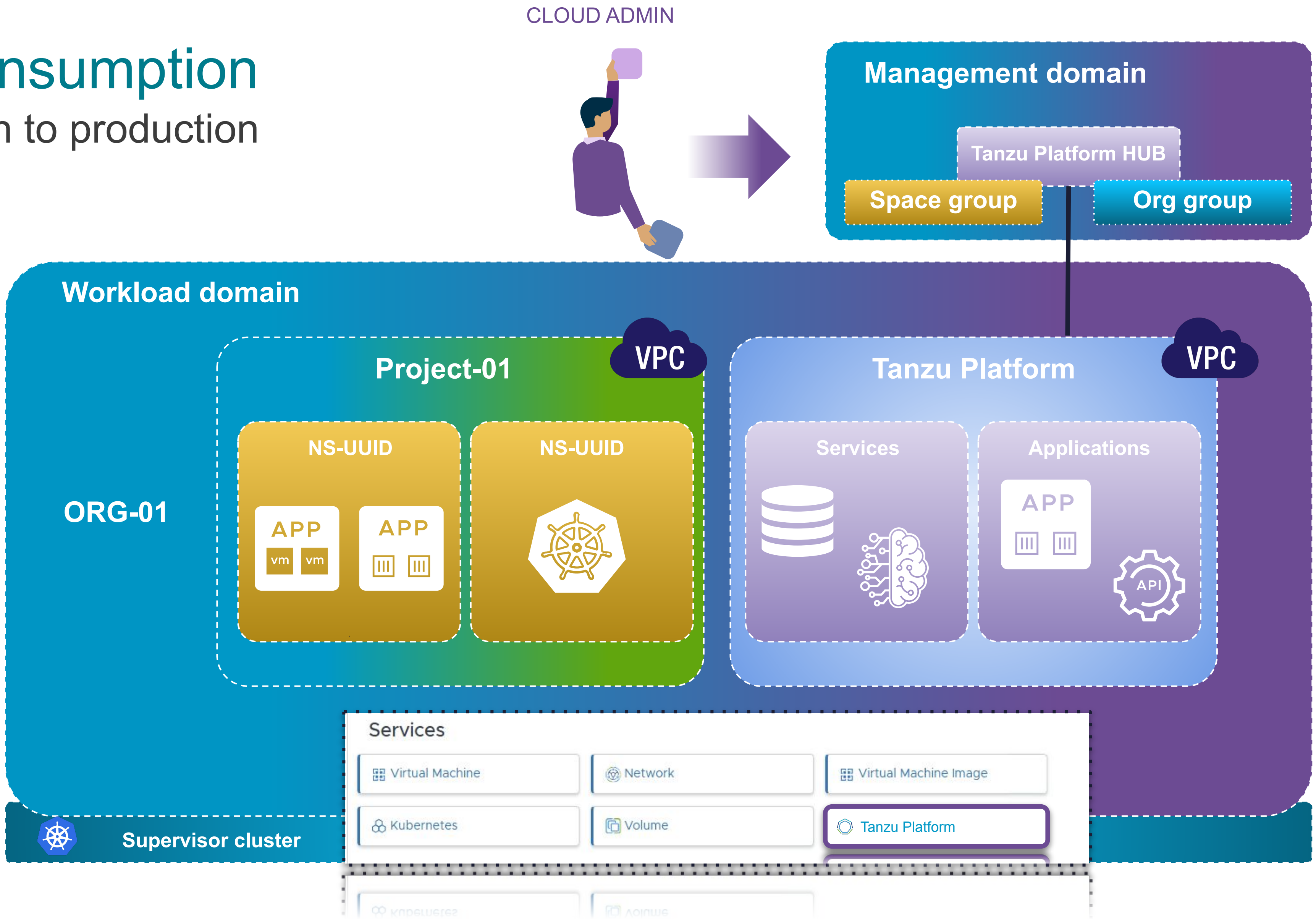
Tanzu HUB

CONSUMER

VCF Automation



Welcome, Service Administrator!



CLOUD ADMIN

Management domain

Tanzu Platform HUB

Space group

Org group

Workload domain

ORG-01

Project-01

VPC

NS-UUID

APP

vm

vm

APP

NS-UUID

Tanzu Platform

VPC

Services

Applications

APP

API

Supervisor cluster

Services

Virtual Machine

Network

Virtual Machine Image

Kubernetes

Volume

Tanzu Platform

vmware by Broadcom

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VCFA PaaS consumption

PaaS options for path to production

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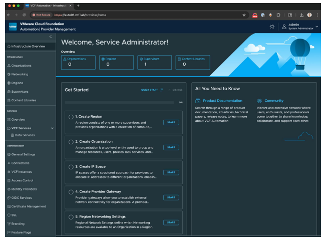
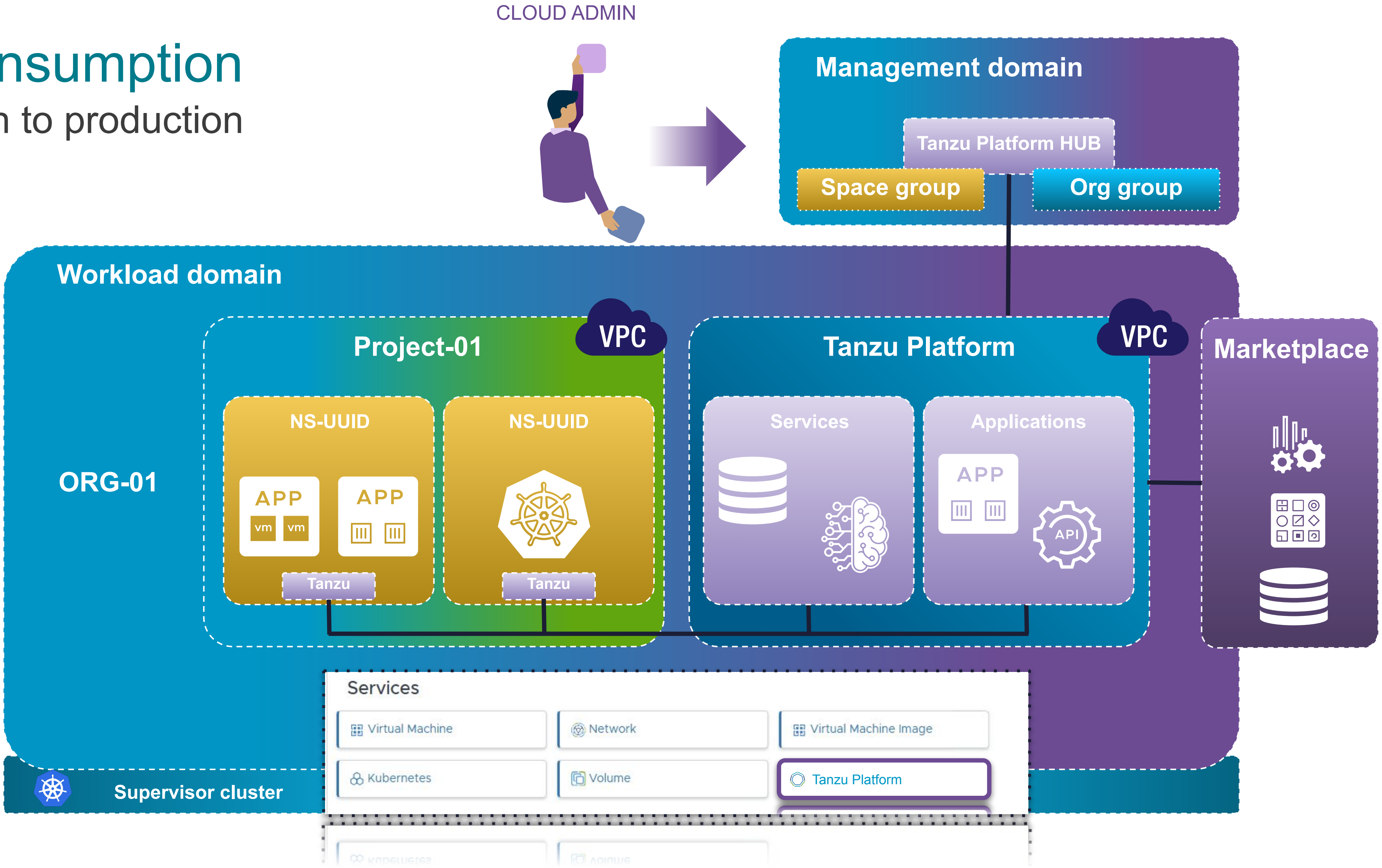
CONSUMER

VCF Automation



Welcome, Service Administrator!



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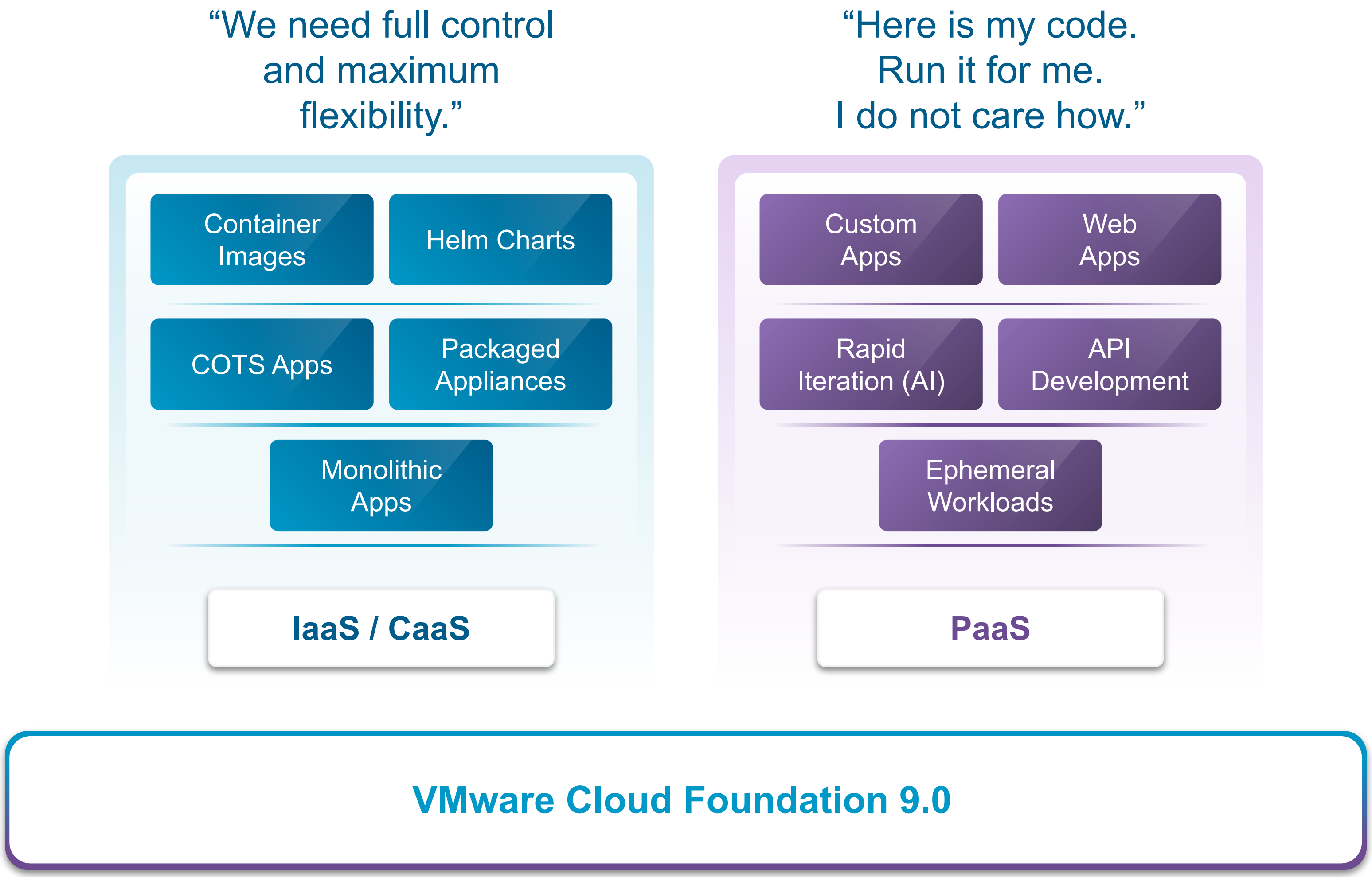
Value to the business starts with the workload

Map the workload type to the appropriate delivery model



“We need full control
and maximum
flexibility.”

- Container Images
- Helm Charts
- COTS Apps
- Packaged Appliances
- Monolithic Apps

IaaS / CaaS

“Here is my code.
Run it for me.
I do not care how.”

- Custom Apps
- Web Apps
- Rapid Iteration (AI)
- API Development
- Ephemeral Workloads

PaaS

VMware Cloud Foundation 9.0

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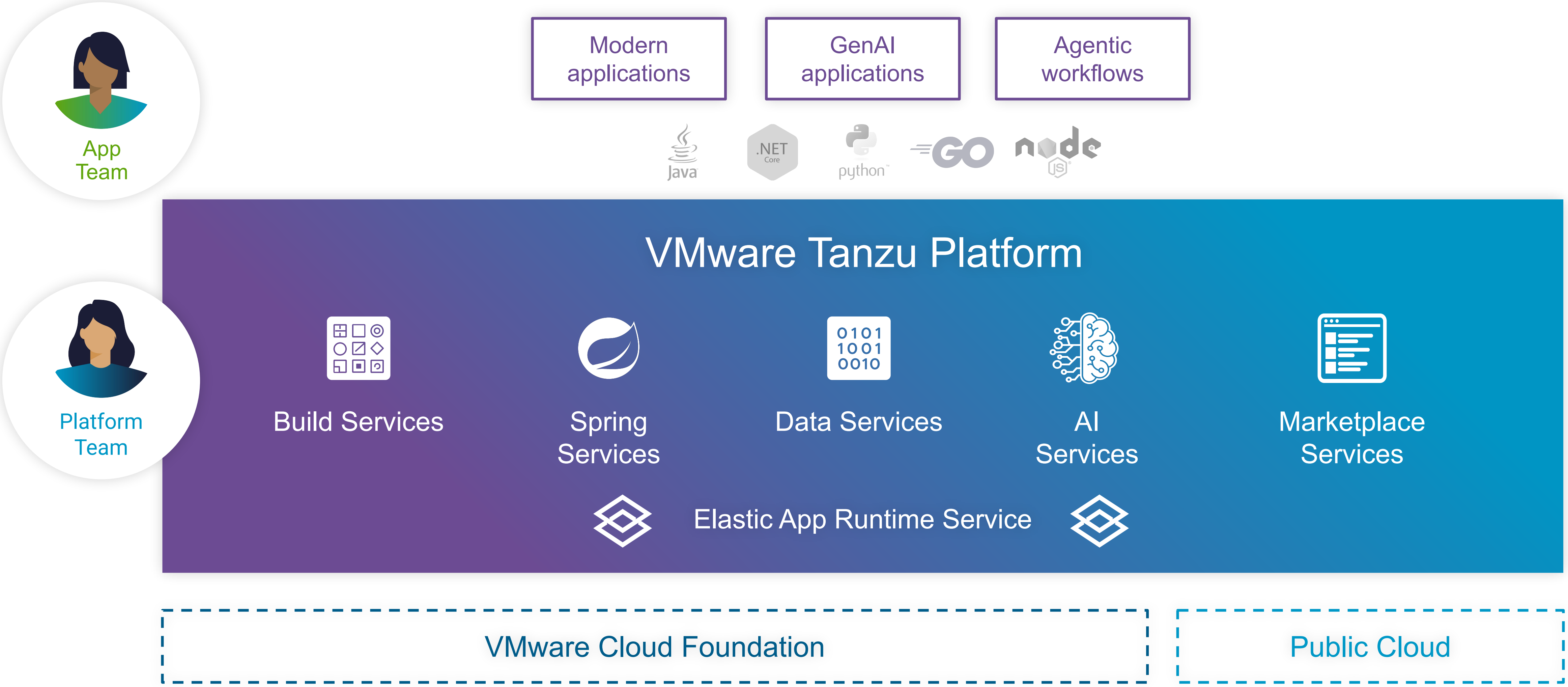
Tanzu mission:

Accelerate
ideas to code,
code to production

Application velocity = Business velocity

Tanzu Platform delivers modern and AI apps with a trusted, end-to-end Cloud Foundry based PaaS



App Team

Modern applications

GenAI applications

Agentic workflows

Platform Team

VMware Tanzu Platform

Build Services

Spring Services

Data Services

AI Services

Marketplace Services

Elastic App Runtime Service

VMware Cloud Foundation

Public Cloud

vmware by Broadcom

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Data intelligence unlocks deeper insights and innovation

Data Science
& AI Teams

Platform
Team

Structured

Unstructured

Real-time

Batch

PostGIS MADlib Java python pgvector K SQL R jupyter PostgresML

VMware Tanzu Data

Data Workflow Services

Data Lake Services

Data compute Service

Analytics and AI/ML Services

High-speed Caching Service

Massively parallel data engine

VMware Cloud Foundation

Public Cloud

Bare Metal

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Achieving ROI from Agentic AI requires solving for non-determinism

Agentic AI thrives with clear guardrails and enterprise integration

Constrain the problem: Leverage AI in bite-sized chunks

Solve to handle many composable agents with defined tasks that can be run on demand

Constrain the context: Less is more when trying to get high-quality results from a model

Curate and govern models, MCP servers, and tuned data products that may be leveraged by agentic planners

Meet your teams and enterprise systems where they are: AI is an integration problem

Modernize your existing apps, empower humans to remain in the loop, and enable repair loops to improve accuracy

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PaaS: Simplifying AI adoption for teams, ensuring safety for agents

Tanzu Platform is the private PaaS for agentic AI

- Strongly opinionated guardrails
- Service binding and context injection
- Elasticity and auto-scaling
- Integrated observability and repair loops
- Development productivity

Tanzu Platform provides the standardization, abstraction, and scale to bring AI to production

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PaaS: Simplifying AI adoption for teams, ensuring safety for agents

Tanzu Platform is the private PaaS for agentic AI

Strongly opinionated guardrails

Controls the networks, scaling, service binding and access controls providing a **secure and predictable sandbox** for running apps or agents at scale

Service binding and context injection

Provides a **governed** set of data sources, APIs, tools (MCP servers) and models that may be injected into apps and agents **without manual wiring or recoding**

Elasticity and auto-scaling

Scales up and down providing as much or as little concurrency as needed **without development team intervention**

Integrated observability and repair loops

Builds trust in production with built-in **feedback, retries, and safety policies** with integrated logging, tracing, and automated update management

Development productivity

New code may be **pushed immediately without rearchitecting infrastructure** to update and redeploy apps and agents frequently

Tanzu Platform provides the standardization, abstraction, and scale to bring AI to production

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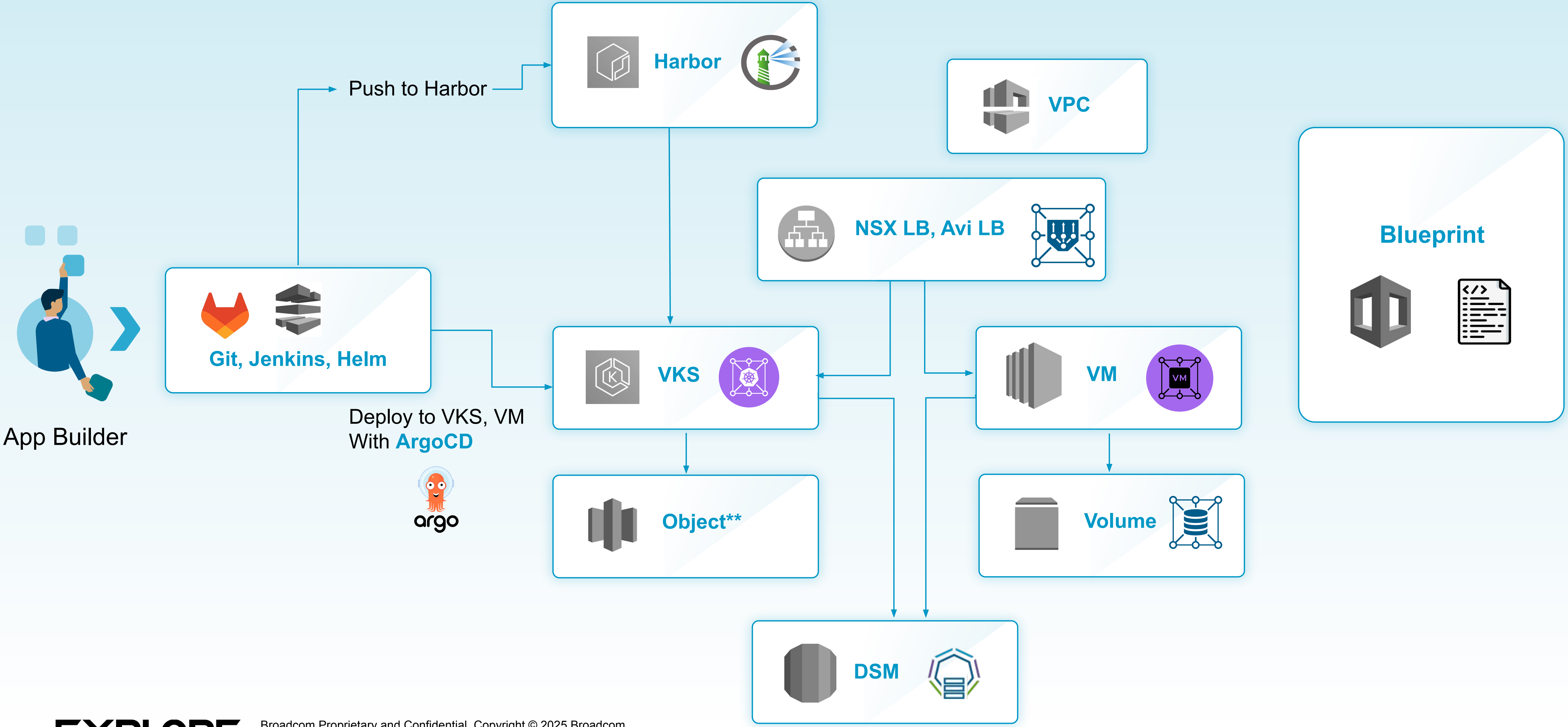
CaaS path to production



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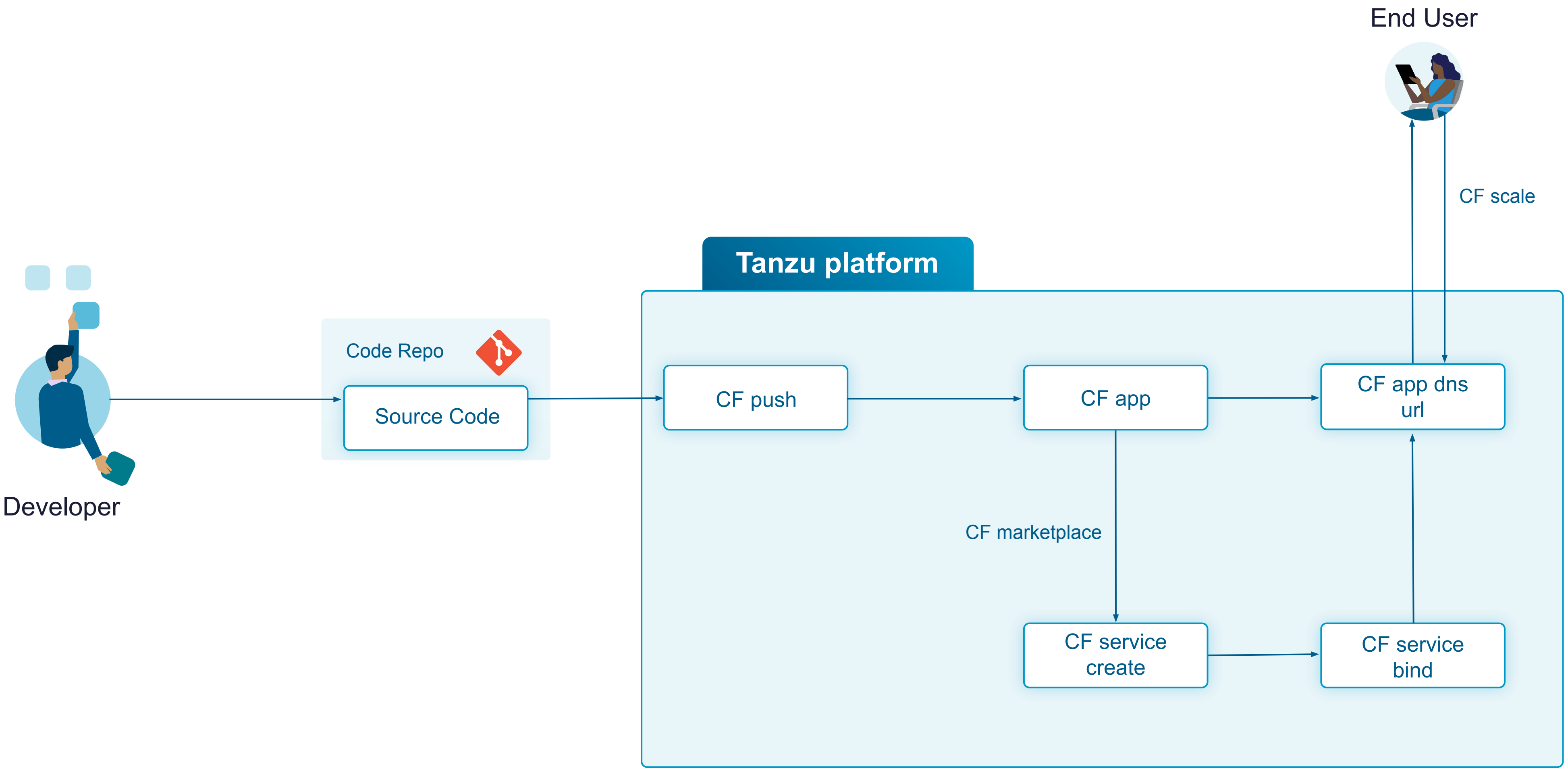
PaaS path to production



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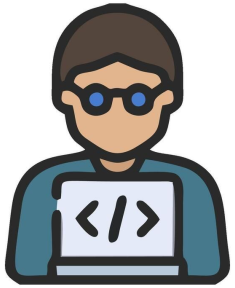
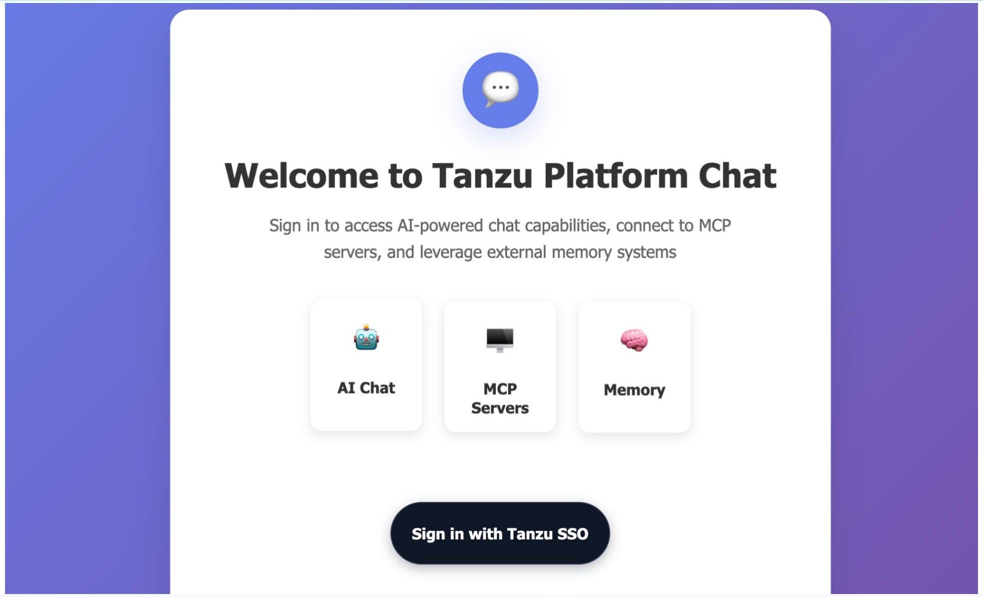
Idea to Code to Prod

Application velocity = Business velocity

I really like my new AI chat app it is great!

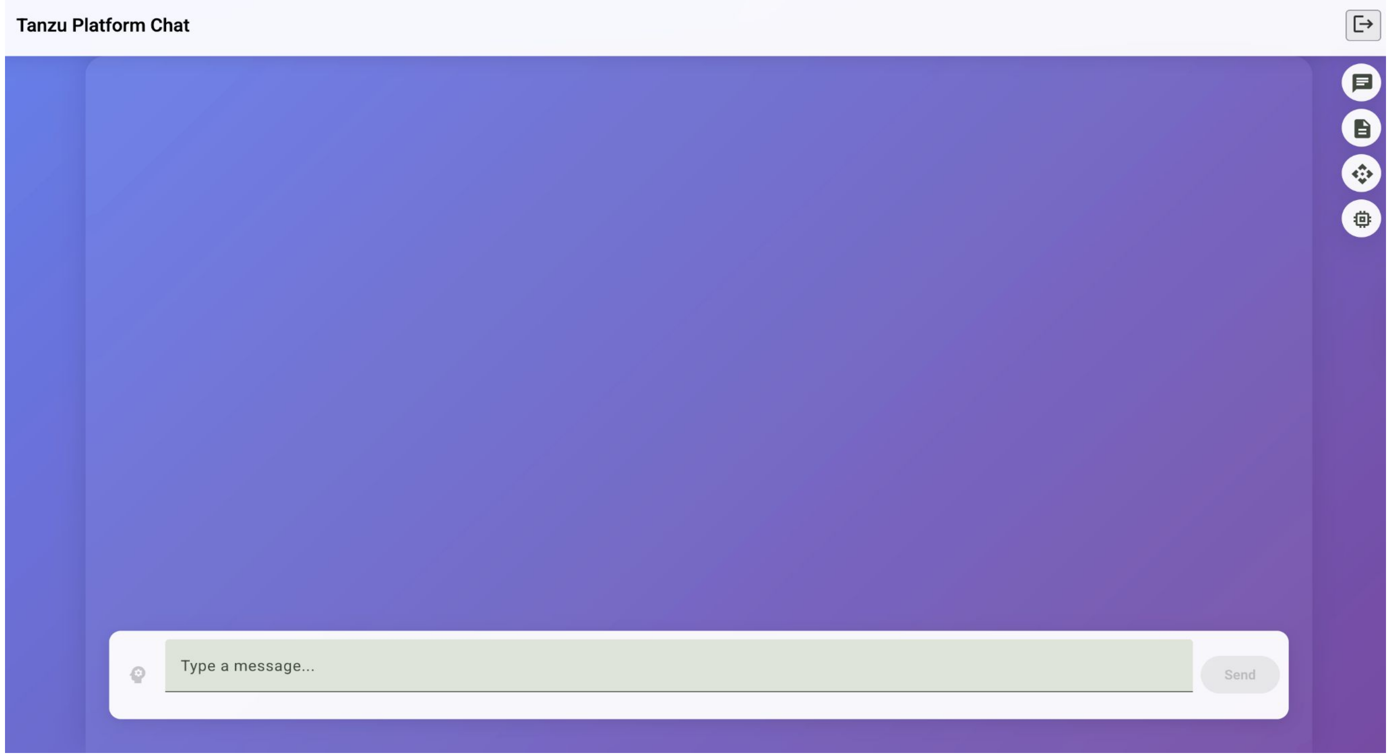


I can chat with LLMs I can add my own data with RAG and I can connect some MCP servers, great!



Welcome to Tanzu Platform Chat

Sign in to access AI-powered chat capabilities, connect to MCP servers, and leverage external memory systems



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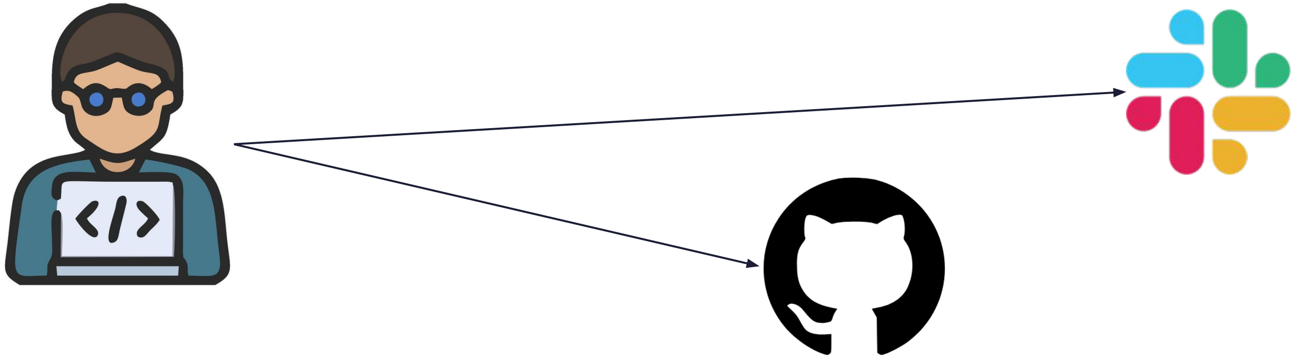
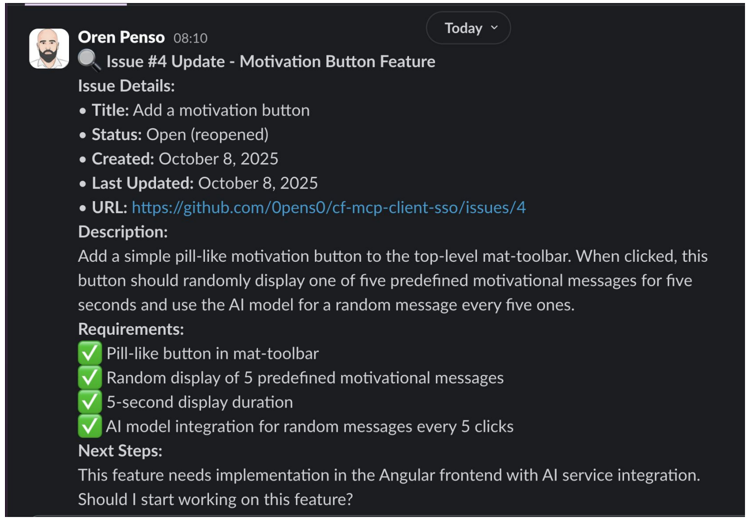
I have a new Issue in my github repo, i need to check it out





Oren Penso 08:10

🔍 Issue #4 Update - Motivation Button Feature

Issue Details:

- **Title:** Add a motivation button
- **Status:** Open (reopened)
- **Created:** October 8, 2025
- **Last Updated:** October 8, 2025
- **URL:** https://github.com/0pens0/cf-mcp-client-sso/issues/4

Description:

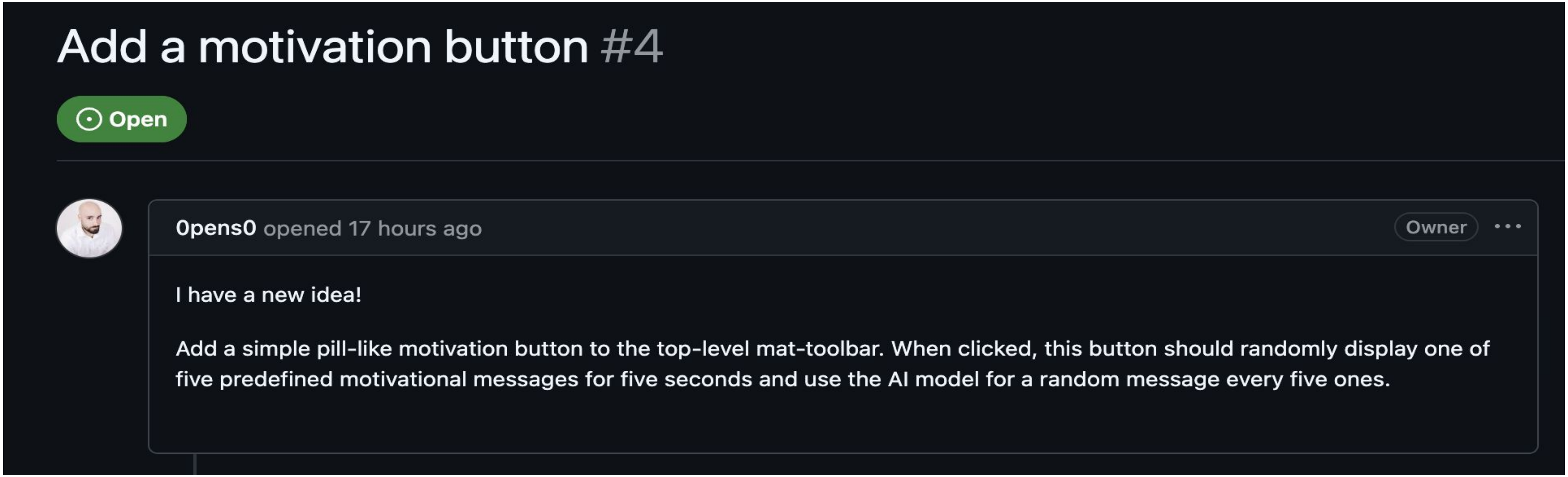
Add a simple pill-like motivation button to the top-level mat-toolbar. When clicked, this button should randomly display one of five predefined motivational messages for five seconds and use the AI model for a random message every five ones.

Requirements:

✅ Pill-like button in mat-toolbar
✅ Random display of 5 predefined motivational messages
✅ 5-second display duration
✅ AI model integration for random messages every 5 clicks

Next Steps:

This feature needs implementation in the Angular frontend with AI service integration.
Should I start working on this feature?



Add a motivation button #4

0pens0 opened 17 hours ago

I have a new idea!

Add a simple pill-like motivation button to the top-level mat-toolbar. When clicked, this button should randomly display one of five predefined motivational messages for five seconds and use the AI model for a random message every five ones.

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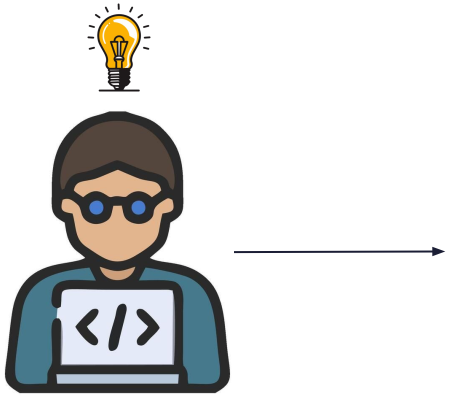
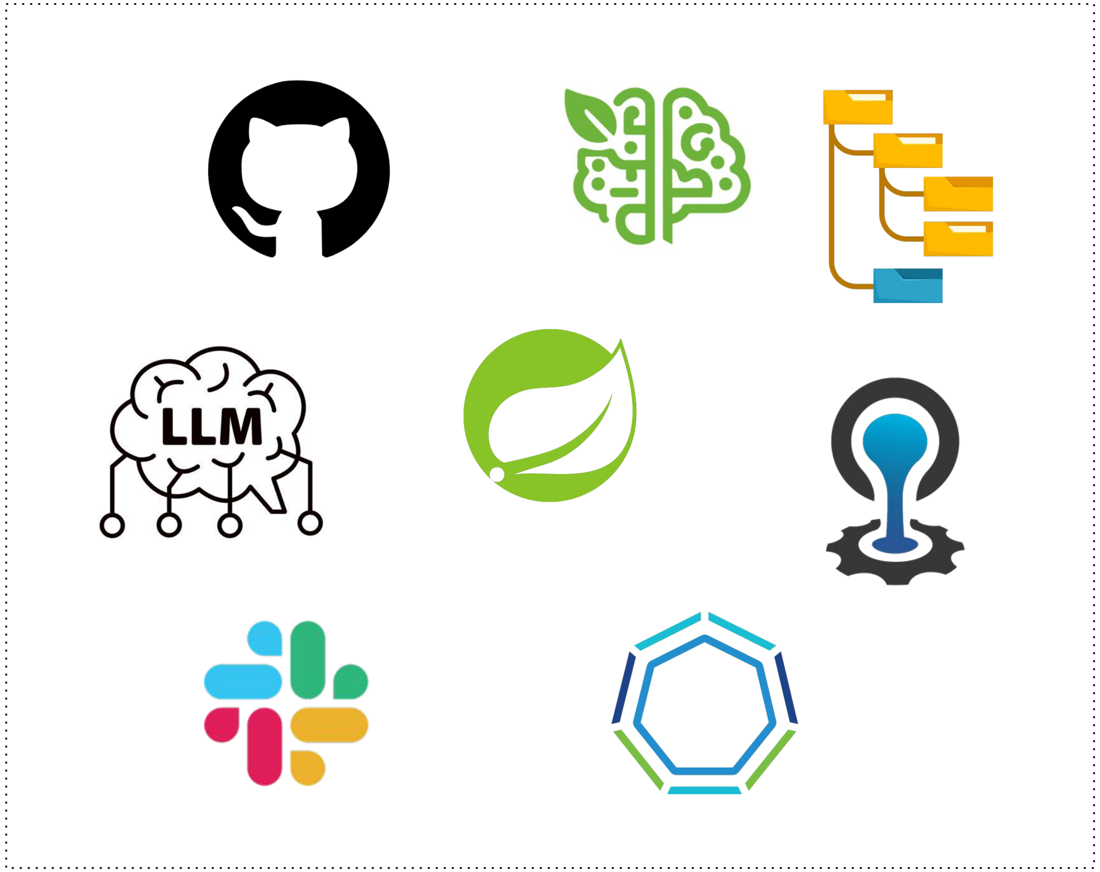
It's a new **idea** for a motivation button!
sounds great I need to try it out



ToDo list

- Know how to do that…
- Fork the code
- Create a new branch
- Change the code
- Compile
- Create a sandbox
- Get access to services to support the SSO and LLM
- Deploy the application
- Create release notes
- Send the details to the team over slack

Check it out!



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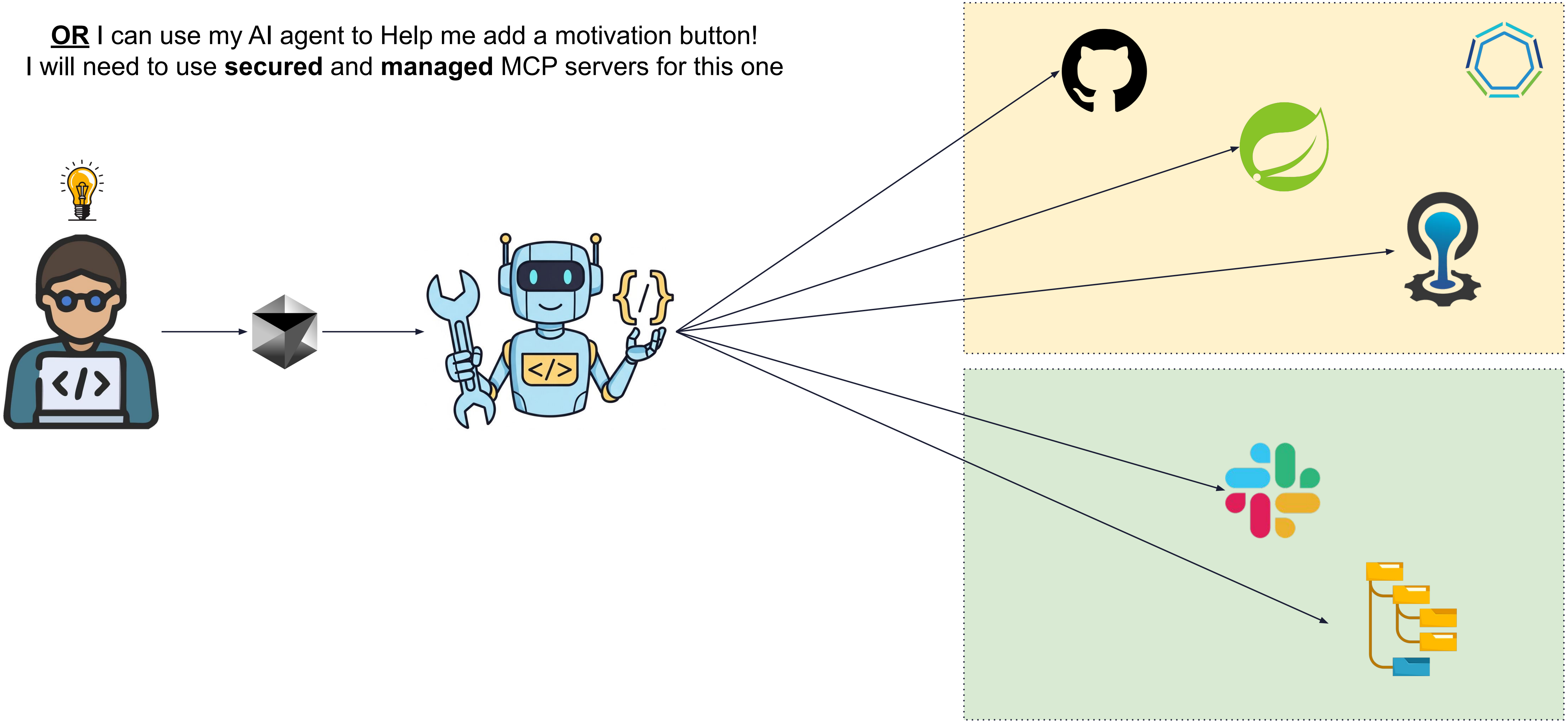
OR I can use my AI agent to Help me add a motivation button!
I will need to use **secured** and **managed** MCP servers for this one



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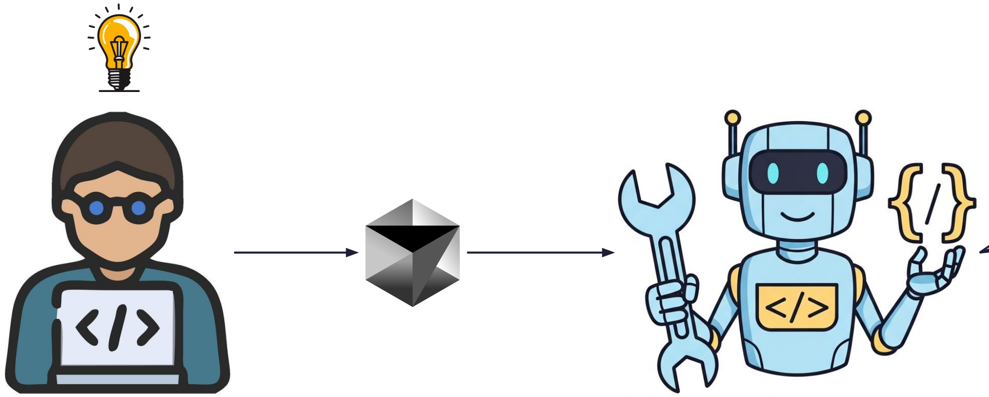
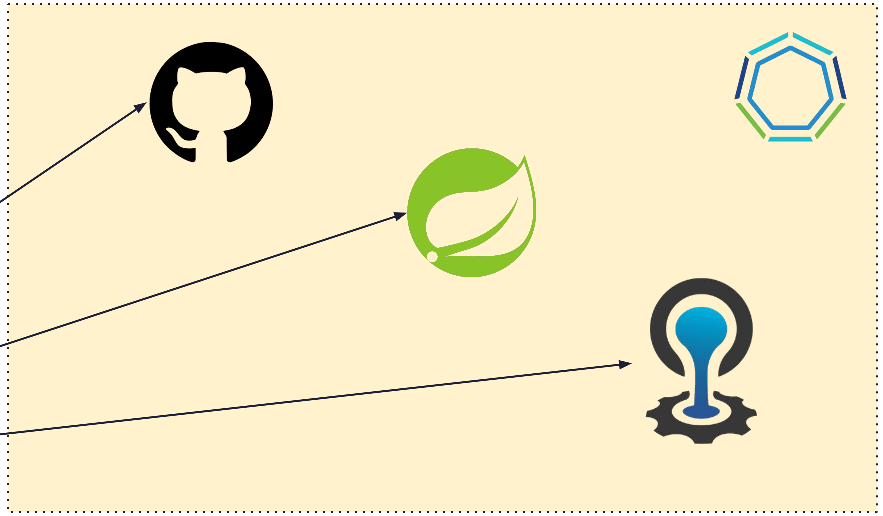
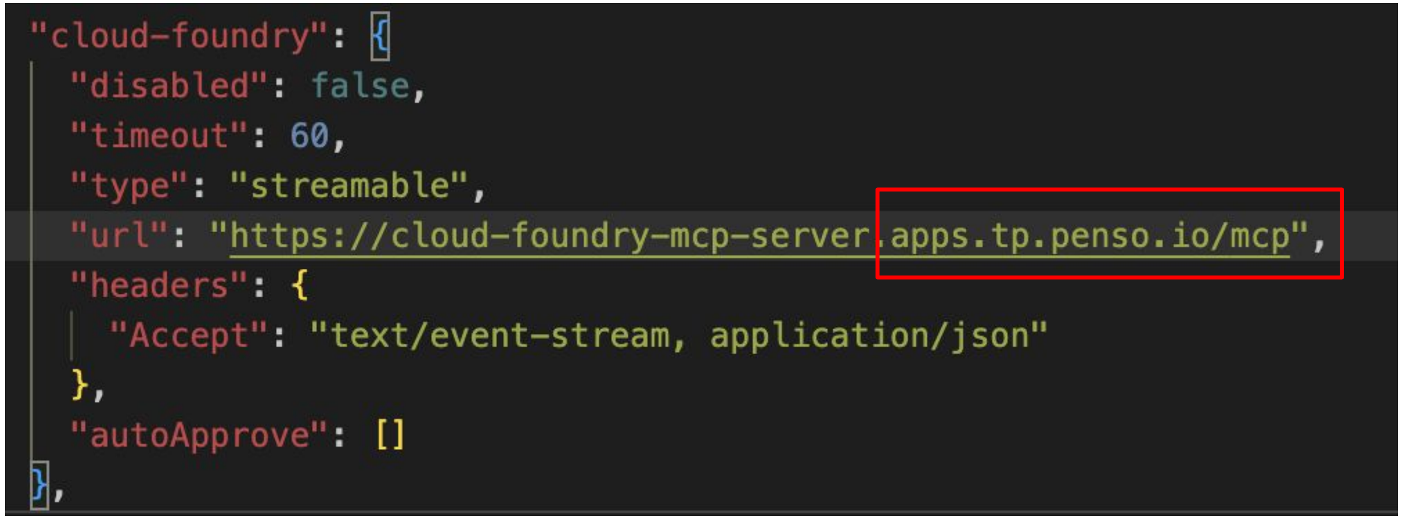
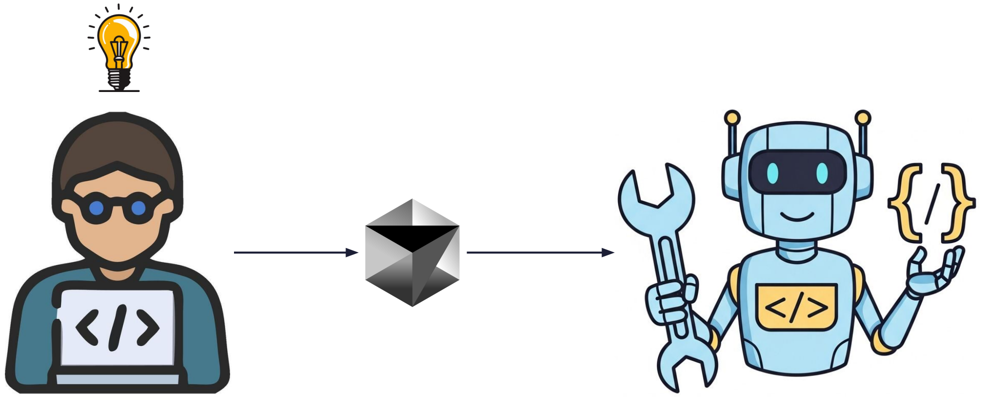


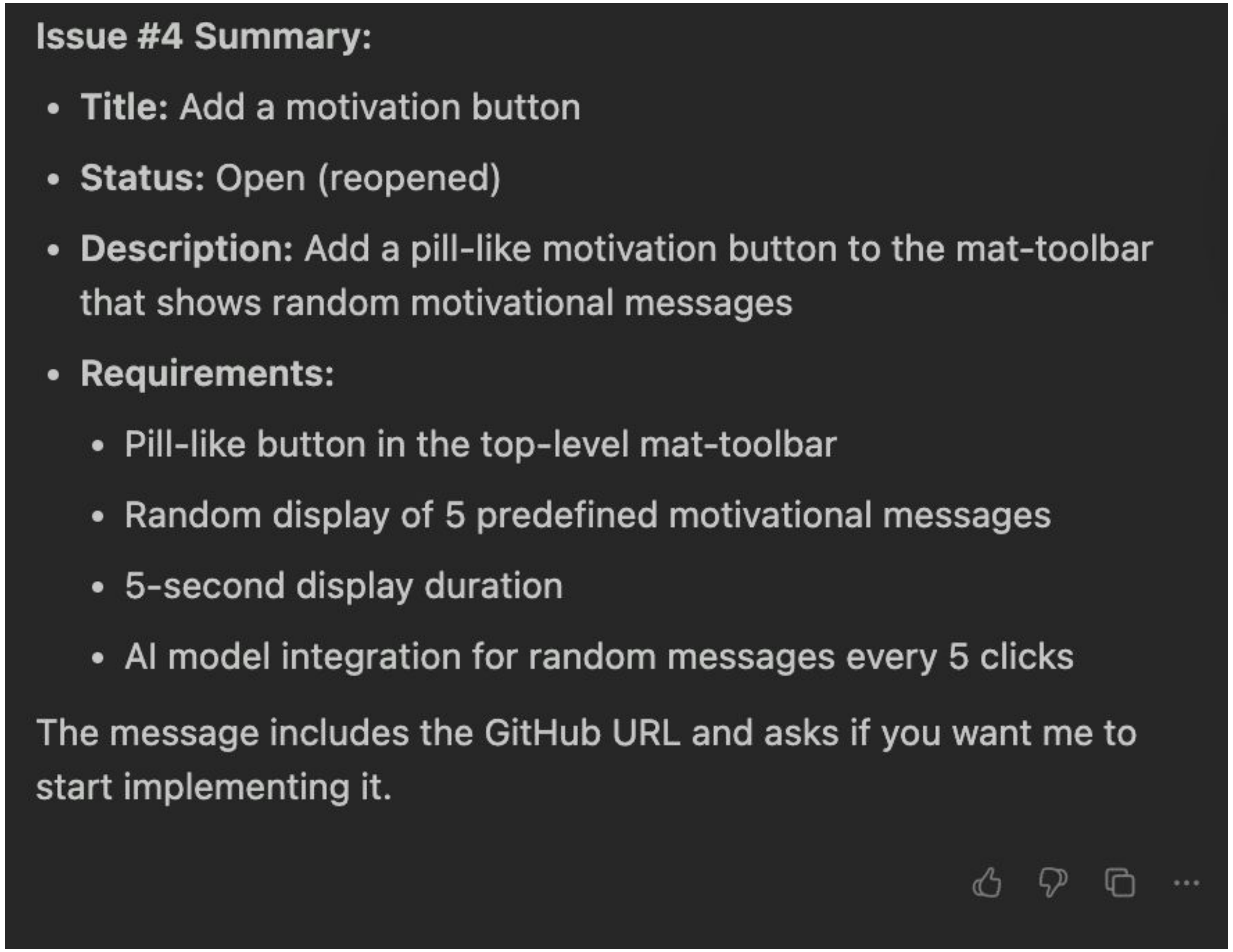




```
"cloud-foundry": {
  "disabled": false,
  "timeout": 60,
  "type": "streamable",
  "url": "https://cloud-foundry-mcp-server.apps.tp.penso.io/mcp",
  "headers": {
    "Accept": "text/event-stream, application/json"
  },
  "autoApprove": []
},
```

Hi Cursor, go check that issue in the repo





Issue #4 Summary:

- **Title:** Add a motivation button
- **Status:** Open (reopened)
- **Description:** Add a pill-like motivation button to the mat-toolbar that shows random motivational messages
- **Requirements:**
    - Pill-like button in the top-level mat-toolbar
    - Random display of 5 predefined motivational messages
    - 5-second display duration
    - AI model integration for random messages every 5 clicks

The message includes the GitHub URL and asks if you want me to start implementing it.

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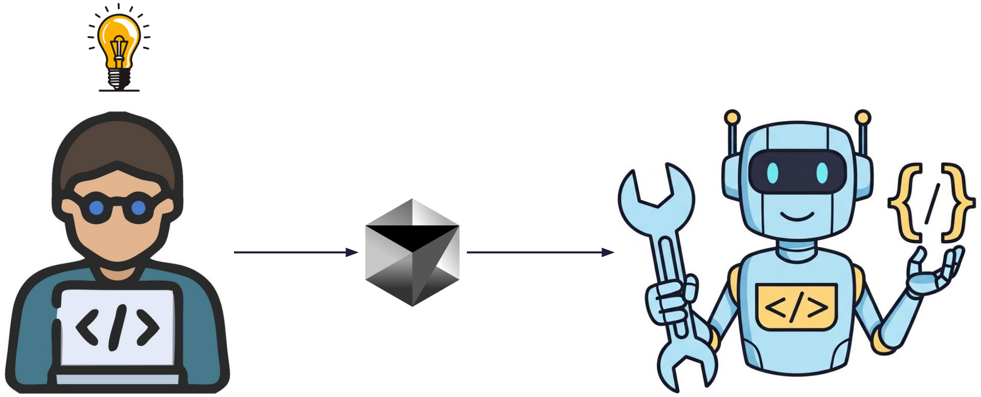
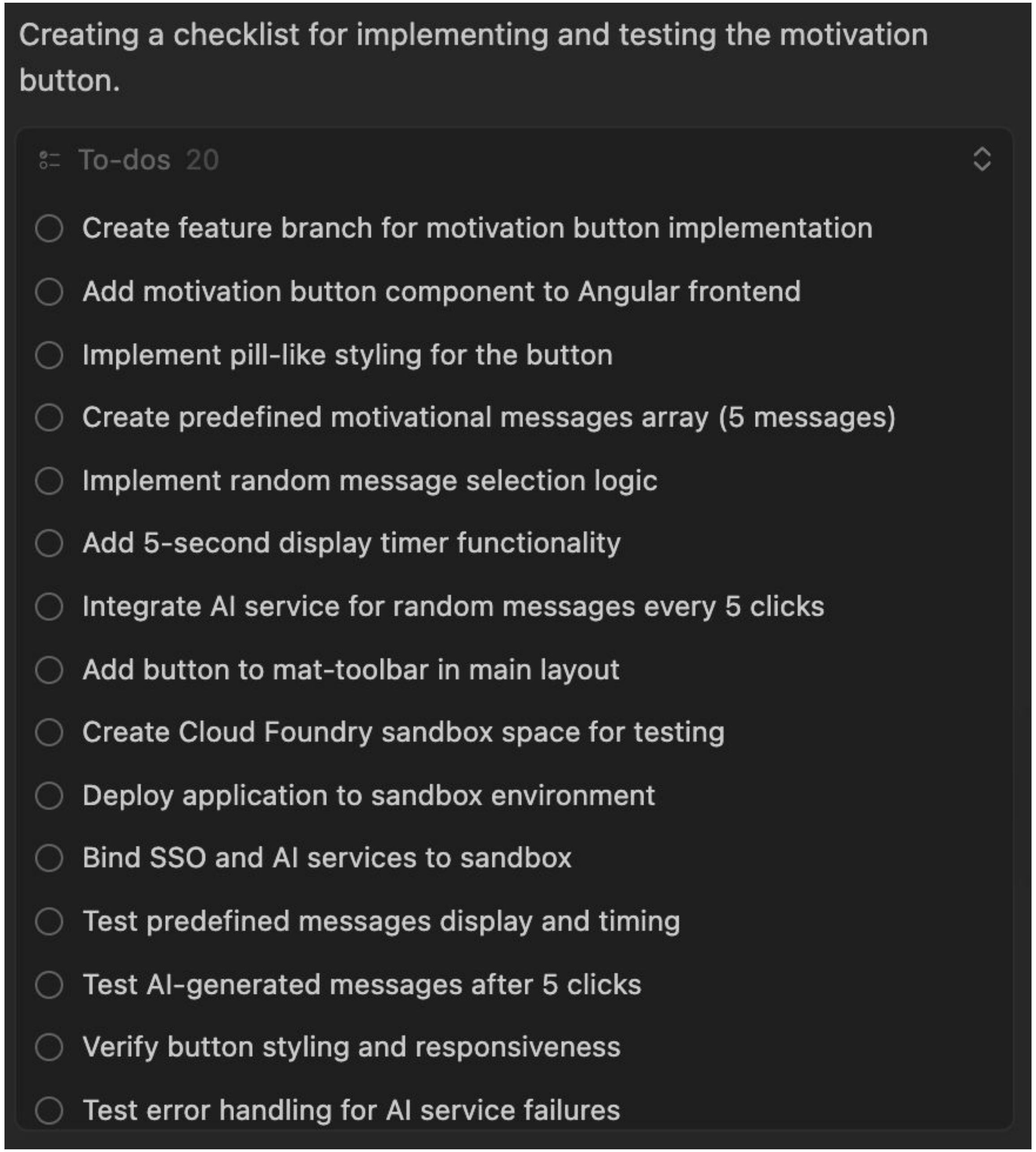
Hi Cursor, create a checklist for the implementation and testing of the new feature





Creating a checklist for implementing and testing the motivation button.

○ Create feature branch for motivation button implementation
○ Add motivation button component to Angular frontend
○ Implement pill-like styling for the button
○ Create predefined motivational messages array (5 messages)
○ Implement random message selection logic
○ Add 5-second display timer functionality
○ Integrate AI service for random messages every 5 clicks
○ Add button to mat-toolbar in main layout
○ Create Cloud Foundry sandbox space for testing
○ Deploy application to sandbox environment
○ Bind SSO and AI services to sandbox
○ Test predefined messages display and timing
○ Test AI-generated messages after 5 clicks
○ Verify button styling and responsiveness
○ Test error handling for AI service failures

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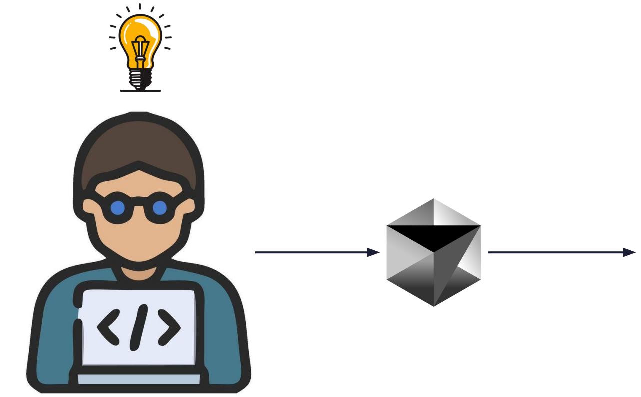
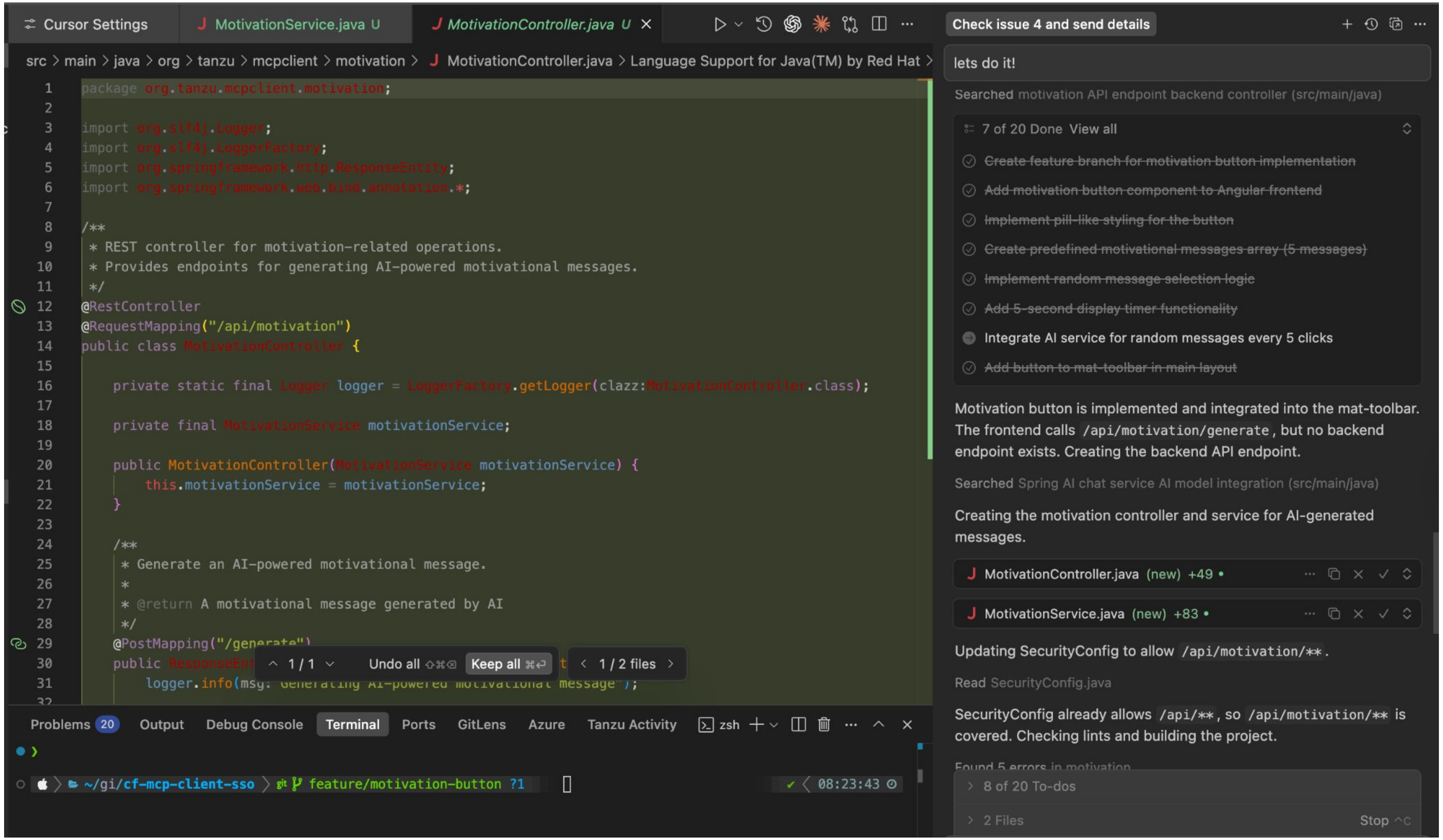
Hi Cursor, Let's do it!




Cursor Settings
MotivationService.java U
MotivationController.java U
src > main > java > org > tanzu > mcpclient > motivation > MotivationController.java > Language Support for Java(TM) by Red Hat >
Check issue 4 and send details
1 / 1
Undo all
Keep all
1 / 2 files
Problems 20
Output
Debug Console
Terminal
Ports
GitLens
Azure
Tanzu Activity
zsh

```java
package org.tanzu.mcpclient.motivation;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;

/**
 * REST controller for motivation-related operations.
 * Provides endpoints for generating AI-powered motivational messages.
 */
@RestController
@RequestMapping("/api/motivation")
public class MotivationController {

    private static final Logger logger = LoggerFactory.getLogger(clazz:MotivationController.class);

    private final MotivationService motivationService;

    public MotivationController(MotivationService motivationService) {
        this.motivationService = motivationService;
    }

    /**
     * Generate an AI-powered motivational message.
     *
     * @return A motivational message generated by AI
     */
    @PostMapping("/generate")
    public ResponseEnt
        logger.info(msg: "Generating AI-powered motivational message");
```

```
❯
~/gi/cf-mcp-client-sso  feature/motivation-button ?1                ✓  08:23:43
```

lets do it!

Searched motivation API endpoint backend controller (src/main/java)

7 of 20 Done View all

- ~~Create feature branch for motivation button implementation~~
- ~~Add motivation button component to Angular frontend~~
- ~~Implement pill-like styling for the button~~
- ~~Create predefined motivational messages array (5 messages)~~
- ~~Implement random message selection logic~~
- ~~Add 5-second display timer functionality~~
- Integrate AI service for random messages every 5 clicks
- ~~Add button to mat-toolbar in main layout~~

Motivation button is implemented and integrated into the mat-toolbar. The frontend calls `/api/motivation/generate`, but no backend endpoint exists. Creating the backend API endpoint.

Searched Spring AI chat service AI model integration (src/main/java)

Creating the motivation controller and service for AI-generated messages.

MotivationController.java (new) +49 •

MotivationService.java (new) +83 •

Updating SecurityConfig to allow `/api/motivation/**`.

Read SecurityConfig.java

SecurityConfig already allows `/api/**`, so `/api/motivation/**` is covered. Checking lints and building the project.

Found 5 errors in motivation

> 8 of 20 To-dos

> 2 Files Stop ^C

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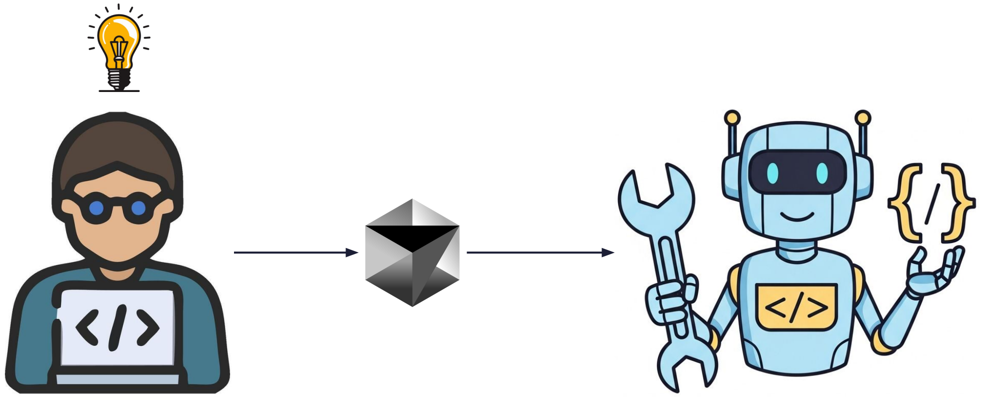
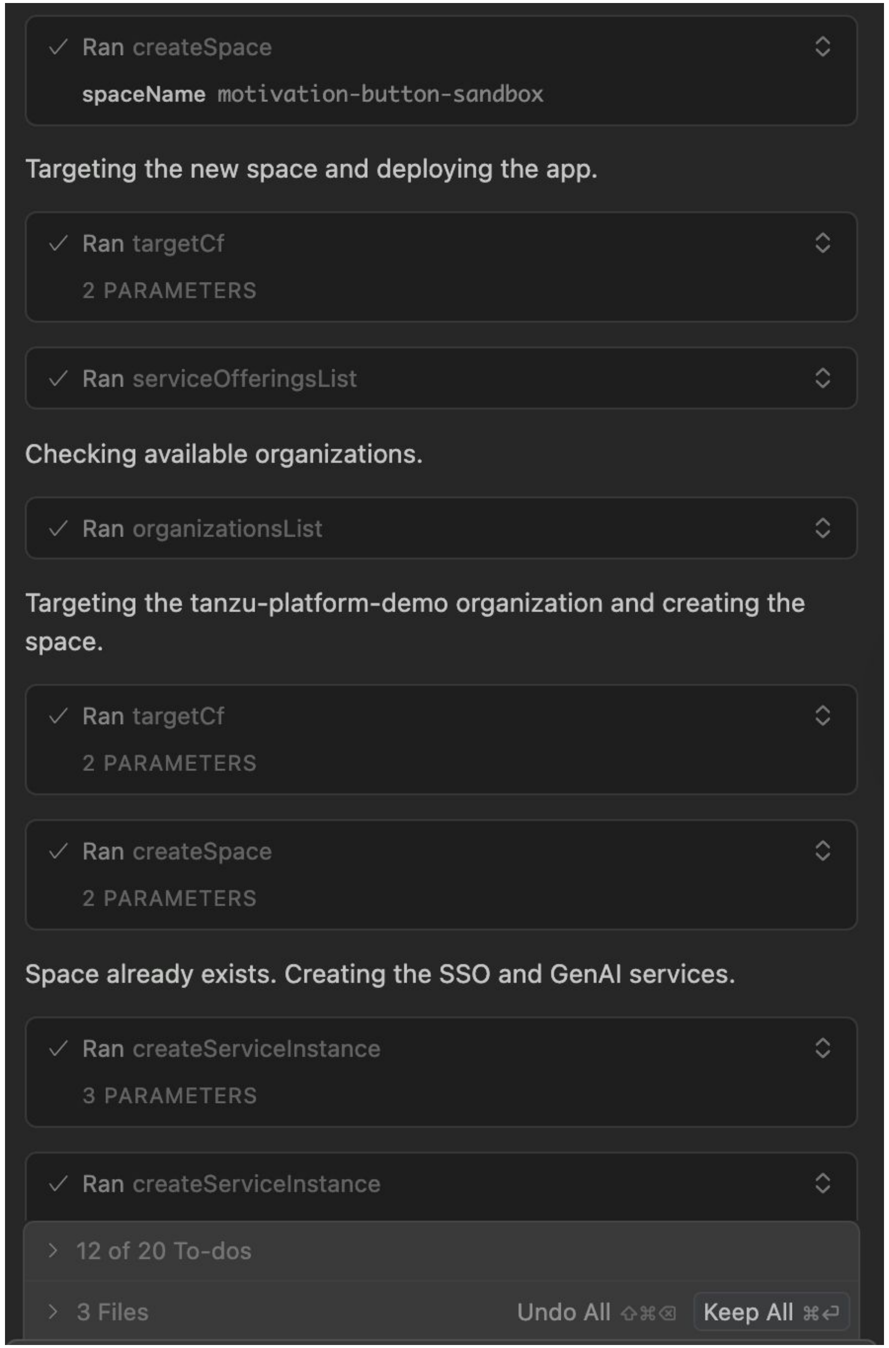
Hi Cursor, Let's test it!





✓ Ran createSpace

spaceName `motivation-button-sandbox`

Targeting the new space and deploying the app.

✓ Ran targetCf

2 PARAMETERS

✓ Ran serviceOfferingsList

Checking available organizations.

✓ Ran organizationsList

Targeting the tanzu-platform-demo organization and creating the space.

✓ Ran targetCf

2 PARAMETERS

✓ Ran createSpace

2 PARAMETERS

Space already exists. Creating the SSO and GenAI services.

✓ Ran createServiceInstance

3 PARAMETERS

✓ Ran createServiceInstance

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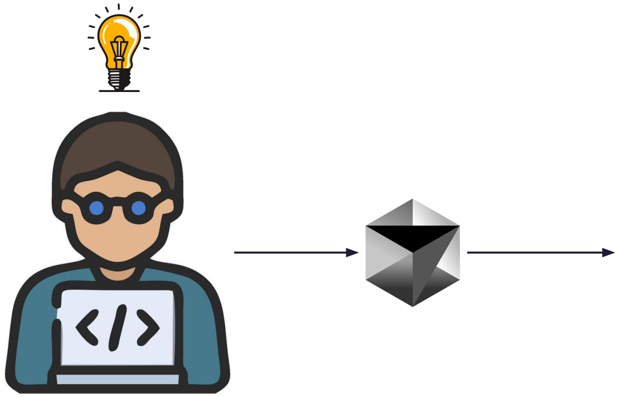
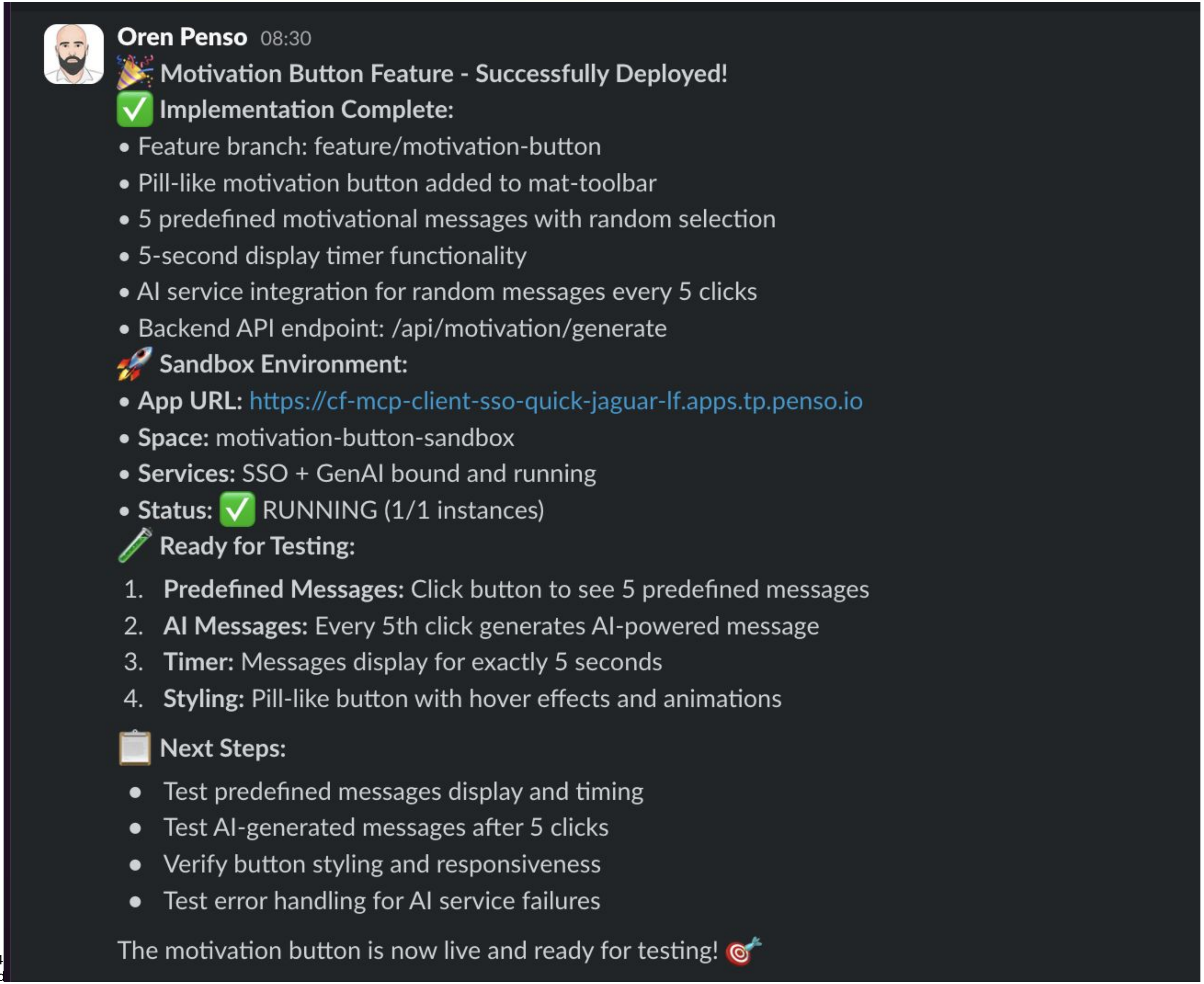
Hi Cursor, Slack it!





Oren Penso 08:30

🎉 **Motivation Button Feature - Successfully Deployed!**

✅ **Implementation Complete:**

- Feature branch: feature/motivation-button
- Pill-like motivation button added to mat-toolbar
- 5 predefined motivational messages with random selection
- 5-second display timer functionality
- AI service integration for random messages every 5 clicks
- Backend API endpoint: /api/motivation/generate

🚀 **Sandbox Environment:**

- **App URL:** https://cf-mcp-client-sso-quick-jaguar-lf.apps.tp.penso.io
- **Space:** motivation-button-sandbox
- **Services:** SSO + GenAI bound and running
- **Status:** ✅ RUNNING (1/1 instances)

🧪 **Ready for Testing:**

1. **Predefined Messages:** Click button to see 5 predefined messages
2. **AI Messages:** Every 5th click generates AI-powered message
3. **Timer:** Messages display for exactly 5 seconds
4. **Styling:** Pill-like button with hover effects and animations

📋 **Next Steps:**

- Test predefined messages display and timing
- Test AI-generated messages after 5 clicks
- Verify button styling and responsiveness
- Test error handling for AI service failures

The motivation button is now live and ready for testing! 🎯

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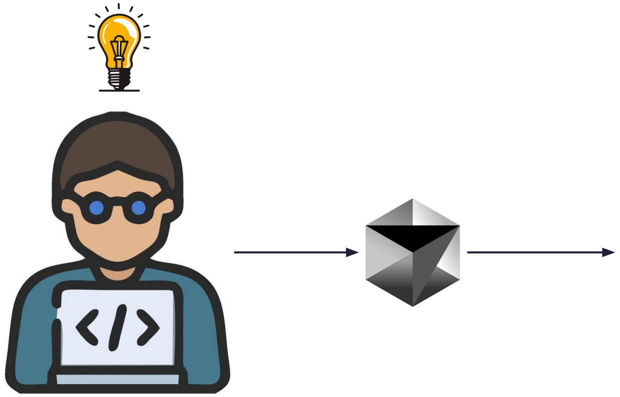
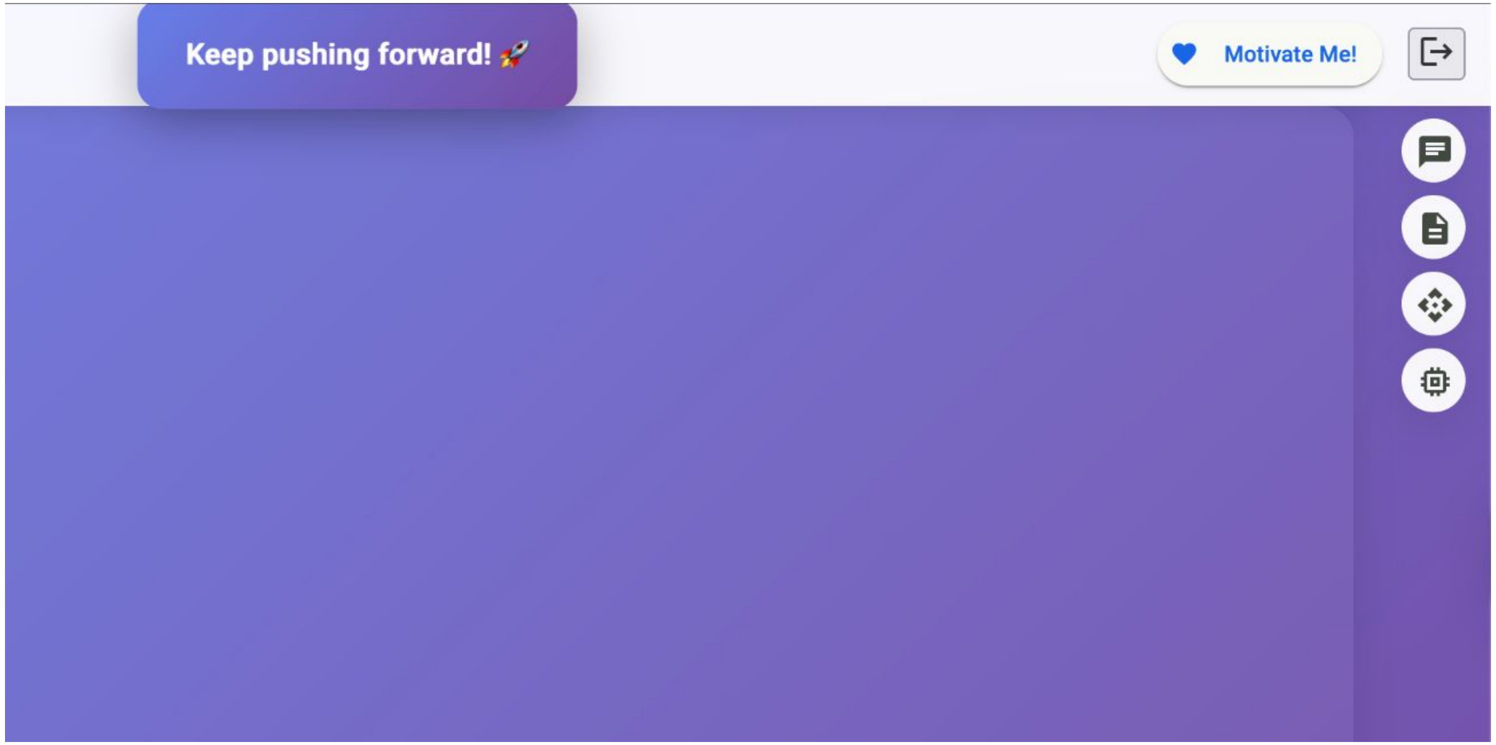
Hi Cursor, Great! it works!





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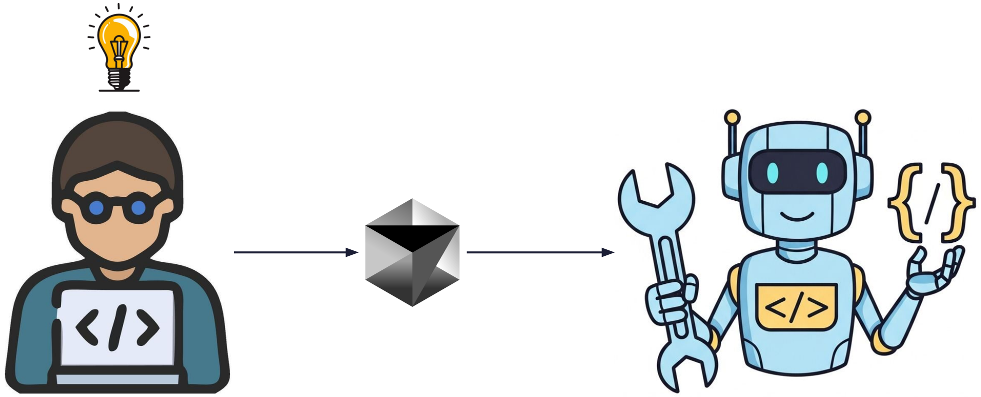
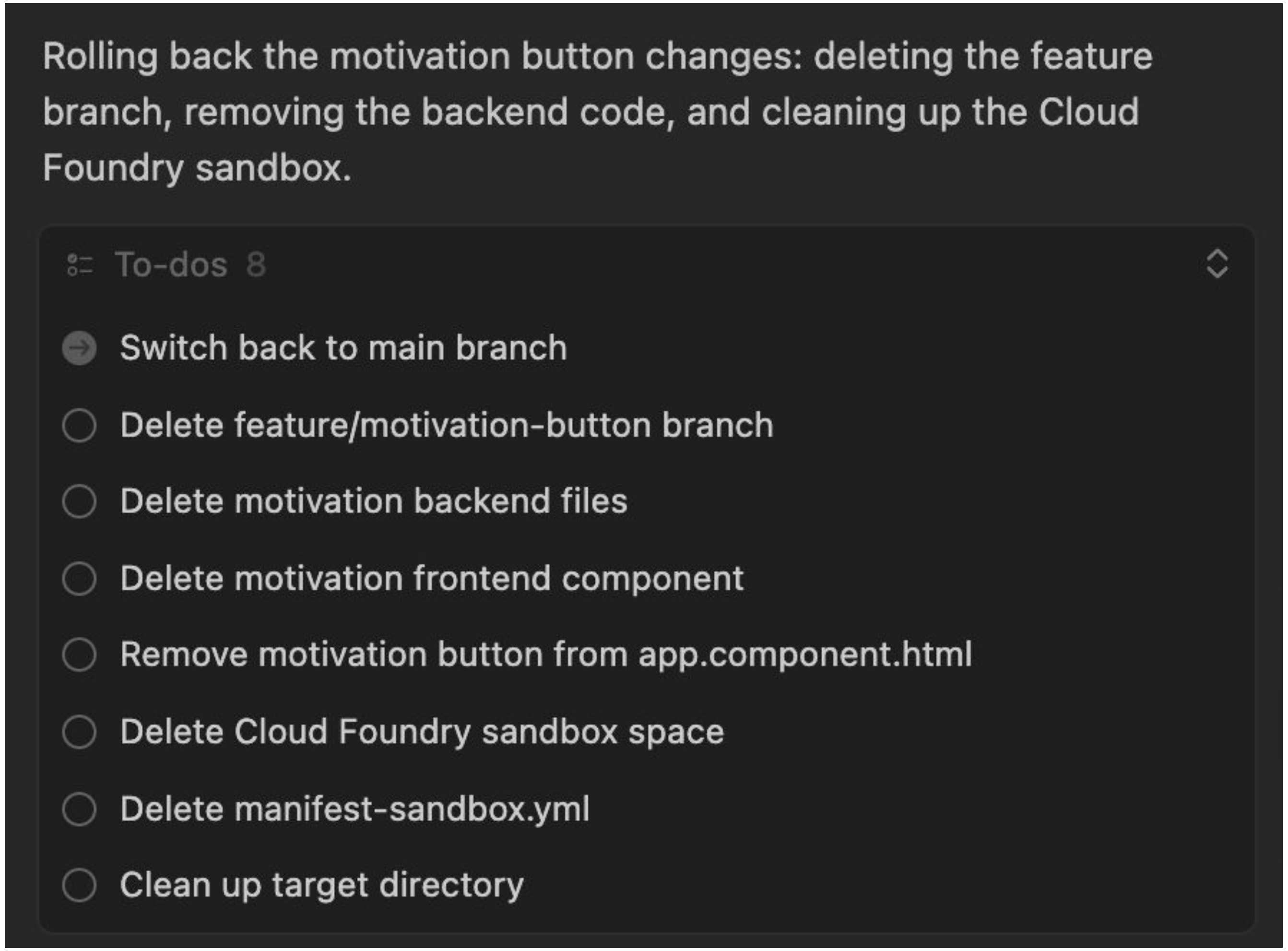
Hi Cursor, rollback and delete all changes, it was a great test





Rolling back the motivation button changes: deleting the feature branch, removing the backend code, and cleaning up the Cloud Foundry sandbox.

- ➜ Switch back to main branch
- ○ Delete feature/motivation-button branch
- ○ Delete motivation backend files
- ○ Delete motivation frontend component
- ○ Remove motivation button from app.component.html
- ○ Delete Cloud Foundry sandbox space
- ○ Delete manifest-sandbox.yml
- ○ Clean up target directory

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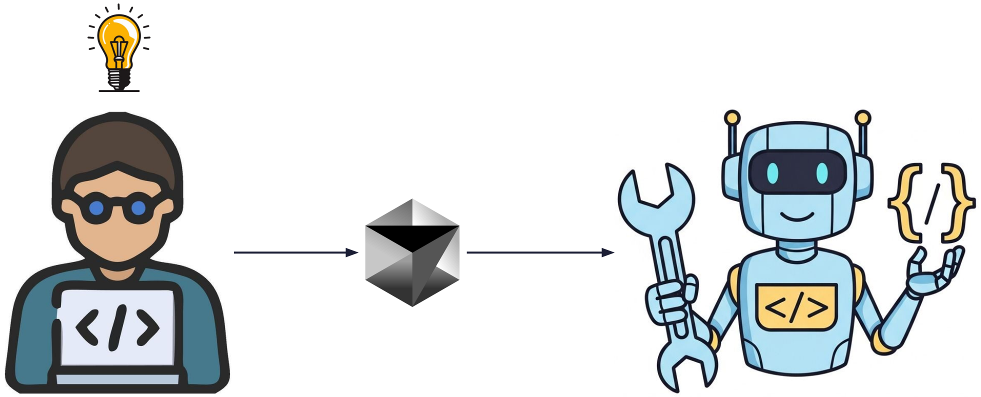

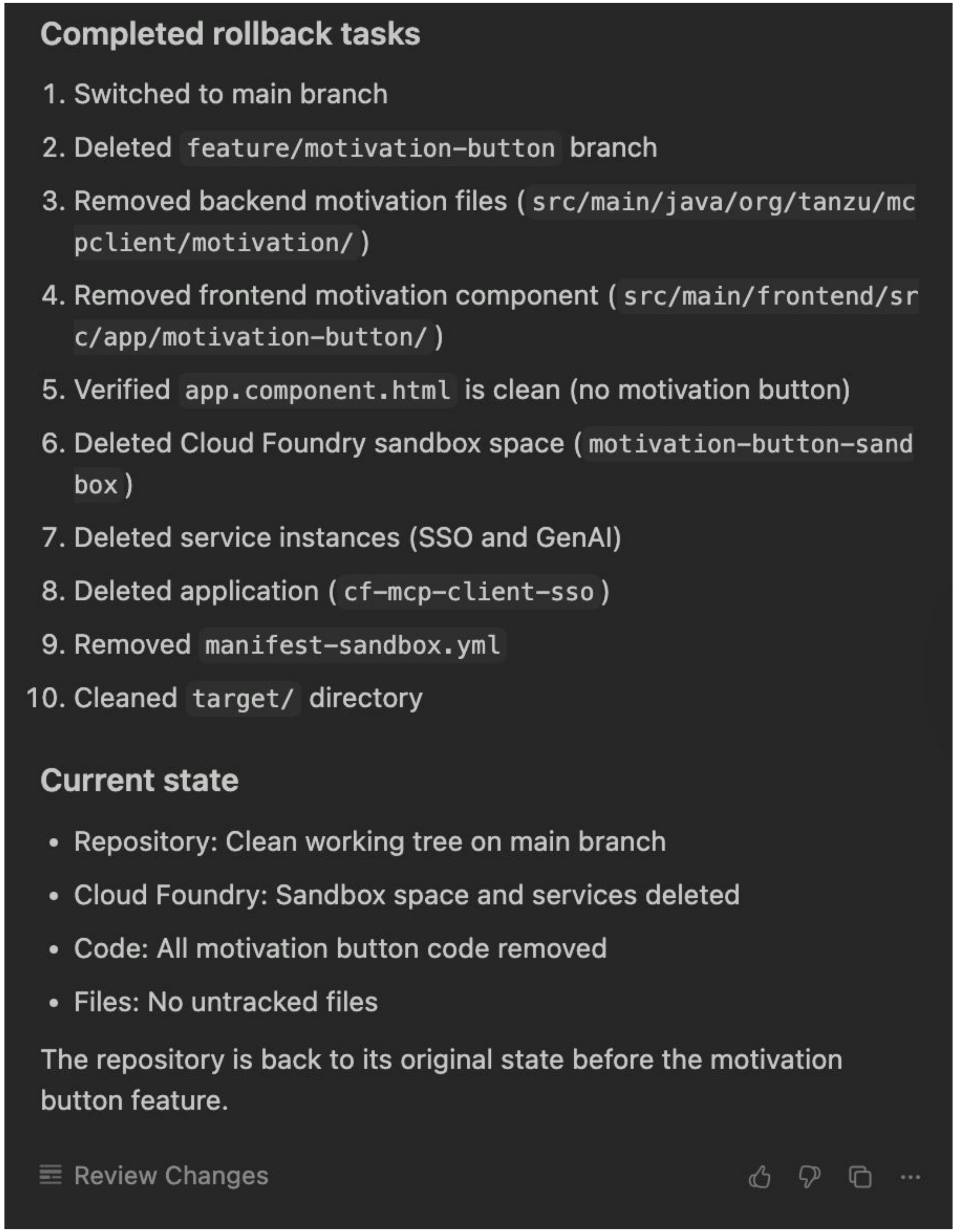

Completed rollback tasks

1. Switched to main branch
2. Deleted `feature/motivation-button` branch
3. Removed backend motivation files (`src/main/java/org/tanzu/mcpclient/motivation/`)
4. Removed frontend motivation component (`src/main/frontend/src/app/motivation-button/`)
5. Verified `app.component.html` is clean (no motivation button)
6. Deleted Cloud Foundry sandbox space (`motivation-button-sandbox`)
7. Deleted service instances (SSO and GenAI)
8. Deleted application (`cf-mcp-client-sso`)
9. Removed `manifest-sandbox.yml`
10. Cleaned `target/` directory

Current state

- Repository: Clean working tree on main branch
- Cloud Foundry: Sandbox space and services deleted
- Code: All motivation button code removed
- Files: No untracked files

The repository is back to its original state before the motivation button feature.

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Tanzu mission:

Accelerate ideas to code, code to production

Application velocity = Business velocity