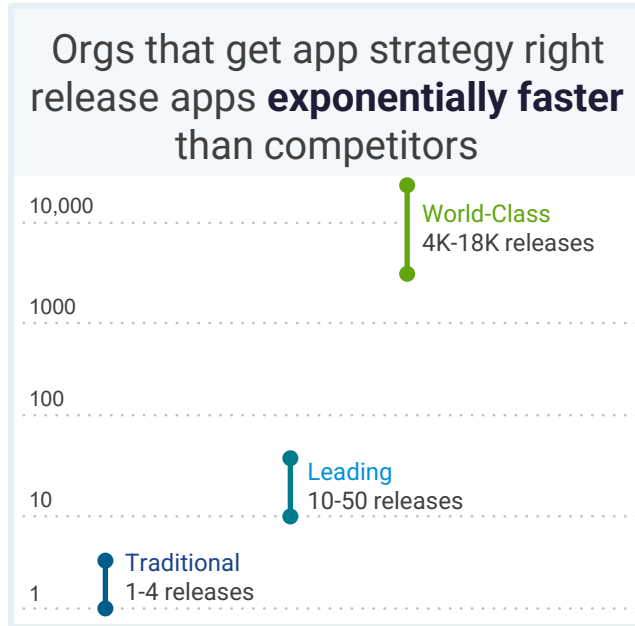


# VMware Tanzu Platform

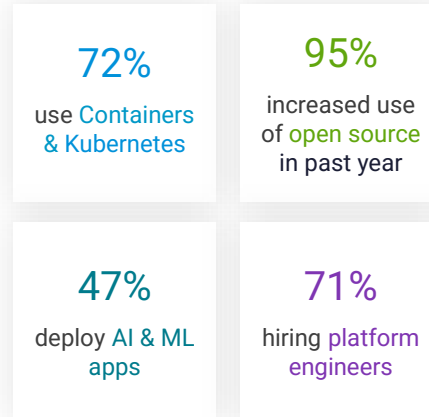
Alex Sullivan  
VMware Pre-Sales Technical Specialist  
VCP-DCV6.5

# Application strategy is critical for businesses, but it requires new tech



Source: McKinsey, 2021

## Most are turning to **new tech and methods**



Sources, in order: VMware FY23 Q1 Executive Pulse, April 2022; OpenLogic by Perforce's 2024 State of Open Source Report, February 2024; VMware FY23 Workloads Tracker, January 2022; Puppet State of DevOps 2023.

# ...and results in new challenges: many teams, many tools, different processes



App Teams

Where do I run my code?

How do I connect my app to services?

How do I scan for vulnerabilities?

What's the right infrastructure for this app?

How can I update apps without downtime?

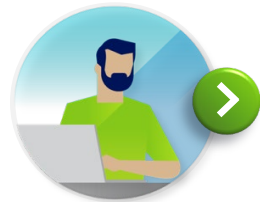
How do I protect against zero-day attacks?



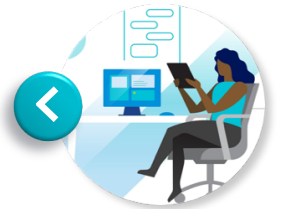
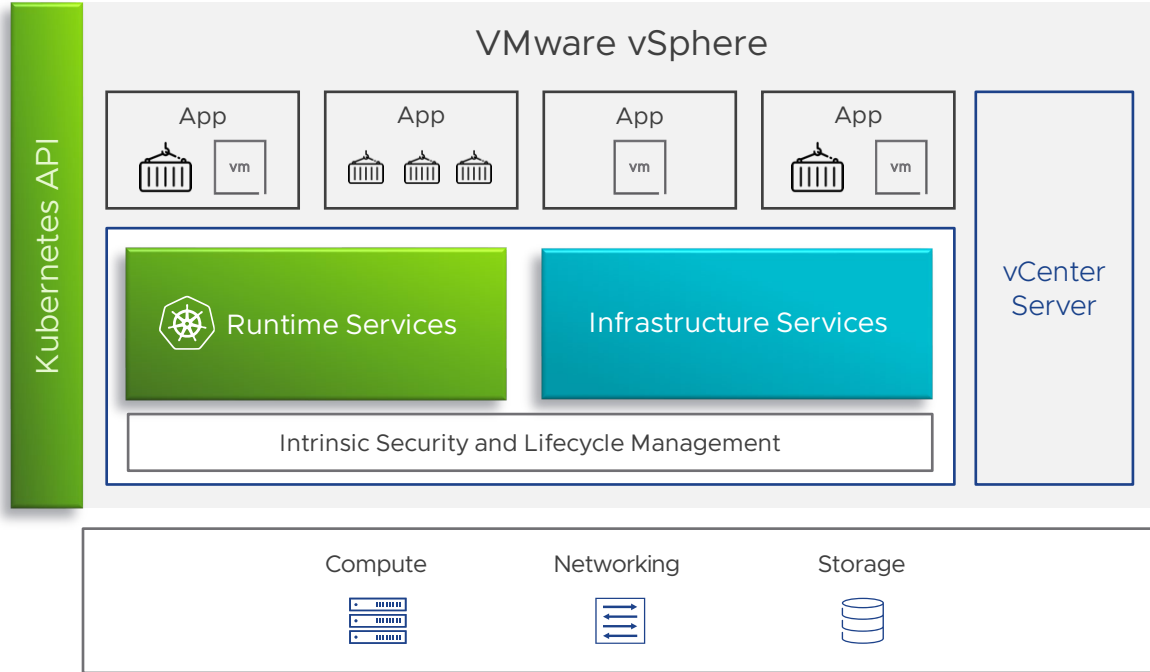
Platform Teams

# Tanzu in VCF: Tanzu Kubernetes Grid

Kubernetes as a feature of your existing infrastructure



Developer



IT Admin

# VMware Tanzu Portfolio



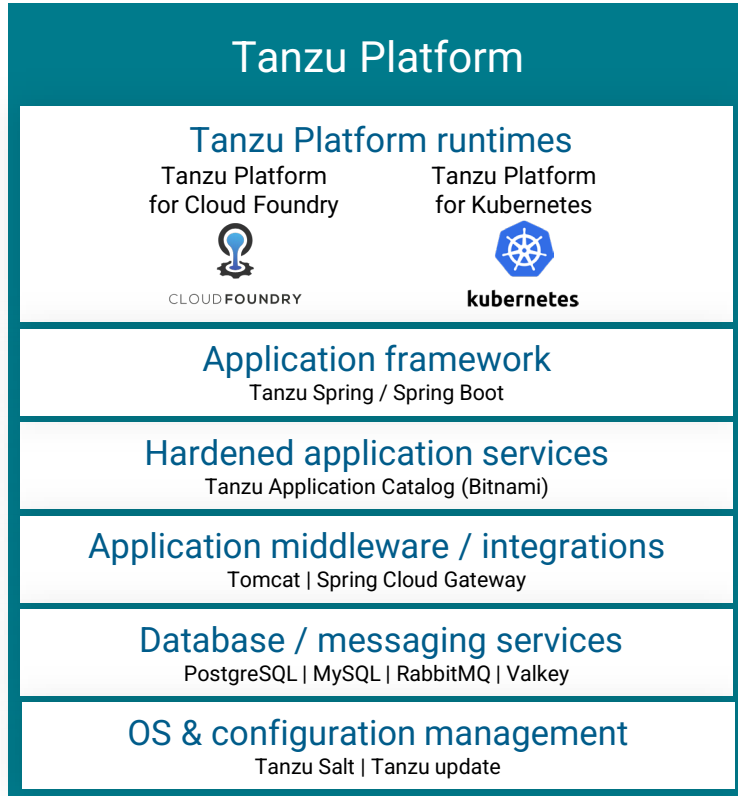
**Tanzu Platform**  
Cloud native application development and delivery

**Tanzu Data**  
High performance solutions for data-rich applications

**Tanzu Labs & Partners**  
Consulting and services for app development and platform engineering



# Tanzu Platform provides the entire app ecosystem



**App-aware runtimes** that dynamically provisions infrastructure as intent and conditions change

**Central container build system** to enforce scanning and SBOM reporting

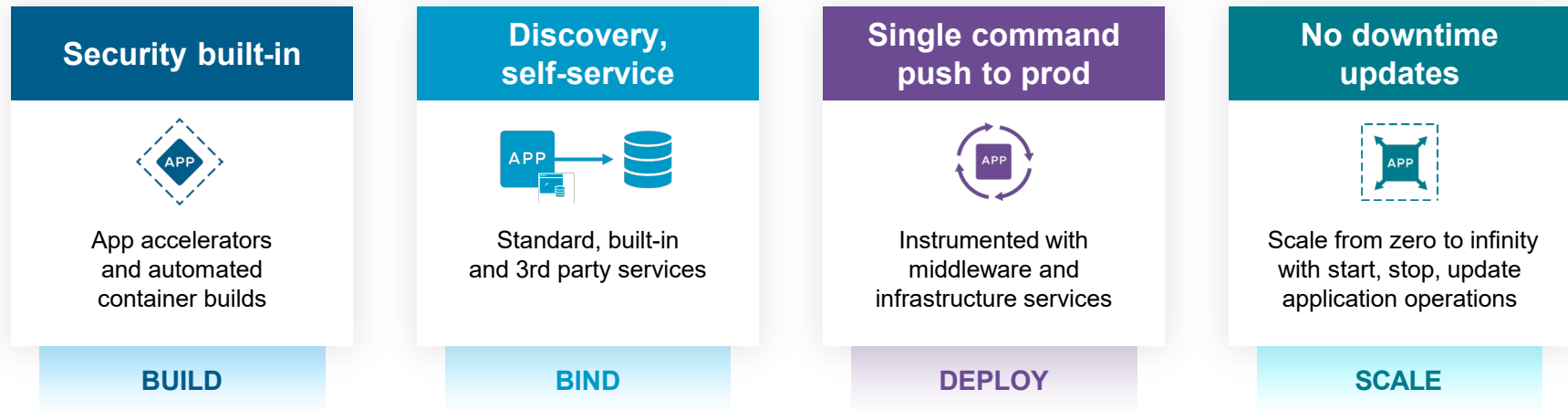
**Out-of-the-box data services** that are centrally managed and scaled to app needs


**200+ open source app components** in a convenient, customizable catalog

**Commercial Spring**, including API gateway, data gateway, AI server, enhanced security, performance & support

**Built-in manageability** with App Advisor, centralized app troubleshooting, Secure OS distributions and patching

# Tanzu Platform's simple commands and abstractions make it easy for app teams to do the right thing



Self-service to curated OSS components | Ticketless data service provisioning | Optimizations for Spring 

# VMware Tanzu + VCF better together investments



## Tanzu Platform

Cloud native application development and delivery



- Tanzu Platform benefits for workloads on VCF
- Easy and secure golden paths to production
- Simplified and automated platform management
- On-demand services available for binding to applications



# High performance data solutions for your data-rich apps

Tanzu  
RabbitMQ



Tanzu for  
Postgres



Tanzu for  
MySQL



Tanzu for  
Redis



## Built into Tanzu Platform

Messaging, Relational queries,  
Transaction processing, Caching



**Tanzu Greenplum**  
Massively parallel processing

Enterprise ML/AI, deep  
learning, analytics, business  
intelligence

### CUSTOMER USE CASE EXAMPLES

Fraud detection  
Taxpayer filing analysis  
Analysis of IoT sensor data for  
water resource management



**Tanzu GemFire**  
Ultra high speed in-memory data grid

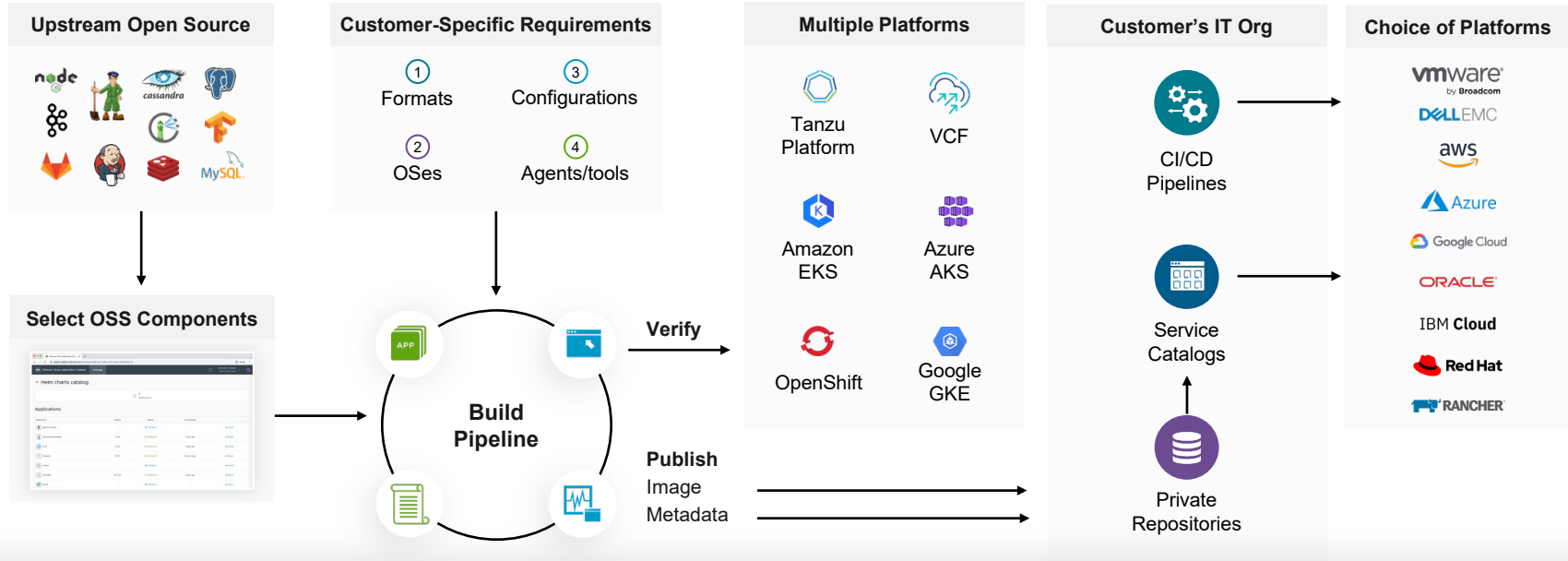
High volume transactions,  
real-time analytics, vector db for  
genAI, global data operations

### CUSTOMER USE CASE EXAMPLES

Real-time credit card  
authorization  
Financial trading  
High volume, concurrent  
transactions for world's largest  
railway system

# Tanzu Application Catalog

Customized to enterprise requirements, continuously maintained, privately delivered



Enabling **superior self-service** experiences for developers while seamlessly enforcing **compliance, security, and operational best practices**

# Tanzu AI complements Private AI Foundation

Accelerate application delivery for new generative AI-powered applications

## VMware Tanzu AI

Empower Java devs to develop powerful AI apps

### Tanzu Spring AI

Developer friendly Java APIs to access LLM models and implement higher level AI app logic patterns

Quickly broker AI models & data stores in Tanzu Platform

### Tanzu Marketplace

Service broker for self-service access to curated software

Securely tune AI model access w/ governance

### GenAI for Tanzu

Deploy fully automated GenAI infrastructure on your infrastructure provider of choice.

Choice in enterprise data solutions for your AI apps

### Tanzu Data

Developer-ready, managed database solutions that complement Tanzu Platform

### Nvidia partnership

Nvidia NIM

Nvidia NeMo Retriever

Nvidia RAG LLM Operator

Nvidia GPU Operator

### VMware Private AI Foundation

Deep learning VMs

Vector Database

Catalog Setup Wizard

GPU monitoring



# Commercial support and enhancements for Spring



**Simple, quick developer startup**

Standardized framework with IDE integrations, patterns, & accelerators

**Built-in governance**

Apply Spring policies and conventions

**Easily adopt cloud native constructs**

Enterprise grade dynamic app optimizations, service bindings, auto-scaling

**Continuous security and optimization**

App observability, real-time diagnostics, scanning, secure BOM, easy upgrades





# Thank You