

Your Private Cloud is the New Public Cloud

Deliver private cloud services on your terms

[Get Started](#)



Executive Summary: The Private Cloud Imperative

Deliver the public cloud experience on your terms — with the cost predictability, security, and sovereignty of your own data center.

The “public cloud-first” era has ended. Enterprises are tired of the hyperscaler tax—paying a premium to subsidize hundreds of niche cloud services when their actual demand remains anchored in core IaaS services like VMs, storage, and databases. Driven by unpredictable billing and the need to protect intellectual property, the industry is pivoting. Today, 83% of enterprises are considering repatriation, 56% run AI inference on private cloud, and 54% cite data sovereignty as the #1 force reshaping their IT strategy.*

However, the core problem was never public versus private—it was the compromise between velocity and control. Traditional data centers are hindered by manual ticketing and fragmented tooling, yet developers expect instant, API-driven self-service. To prevent infrastructure from becoming a bottleneck to innovation, IT organizations must transition to a modern, Provider/Consumer [cloud operating model](#).

[VMware Cloud Foundation® \(VCF\)](#) closes this gap by delivering the AWS-like consumption experience developers demand, entirely on-premises. VCF provides a unified, [self-service private cloud](#) spanning VMs, containers, and AI—all governed through a single declarative API. By embedding upfront cost visibility directly into the automated provisioning workflow, VCF replaces opaque cloud billing with true financial accountability and GitOps-grade velocity.

The 2026 Shift

The 2026 Private Cloud Outlook found that 83% of enterprises are considering repatriation. 56% run AI on private cloud (vs. 41% public). 54% name sovereignty the #1 driver of IT change.

The Experience Gap

Legacy private data centers run on tickets and manual provisioning. Developers expect APIs, catalogs, and self-service — and route around IT when they don’t get them.

VCF Solution

VCF delivers self-service IaaS — VMs, containers, Kubernetes, networking, storage, Private AI, and more — through one declarative API. The AWS experience, on your infrastructure.

Business Impact

9 in 10 IT leaders cite cost predictability as the definitive private cloud advantage. VCF replaces opaque cloud bills and ticket queues with governed, GitOps-grade velocity — data, keys, and budget stay yours.

* [Data](#) is based on a global survey conducted by Radius Tech in partnership with Broadcom. Radius Tech surveyed 1,800 senior IT decision-makers in February - March 2026 across 8 countries in North America, Europe, and Asia-Pacific.

Navigating the new era of private cloud infrastructure and application delivery.

1. The Strategic Shift

Overcoming the 2026 Cloud Paradox, resolving core infrastructure problems, and transitioning IT to a powerful Provider / Consumer operating model.

2. The Cloud Experience, Delivered

Embracing an open ecosystem approach to introduce private cloud services, delivering an authentic public cloud-like consumption experience entirely on-premises.

3. Modern Infrastructure Services

Right-sizing workload runtimes, guaranteeing data sovereignty with S3-compatible Object Storage, eliminating IT tickets via Networking as a Service, and integrating extensible ecosystems.

4. High-Velocity Innovation & AI

Powering Internal Developer Platforms (IDPs) with GitOps delivery, provisioning GPU-optimized Private AI services, and executing ephemeral, real-world security validation.

5. Execution & Economics

Reclaiming financial predictability, driving down Total Cost of Ownership (TCO), and mapping your strategic journey to get started with a self-service private cloud.

The 2026 Cloud Paradox

The “public cloud-first” mandate has ended. The 2026 Private Cloud Outlook reveals that AI demands, escalating costs, and strict data regulations are driving a massive shift back to private infrastructure. The new mandate: repatriate the workloads, **but** keep the public cloud developer experience.



The Inference Shift

56%

of IT leaders now run or plan to run inference / production AI workloads on private cloud, surpassing public cloud (41%).



The Sovereignty Mandate

54%

cite data sovereignty and residency as the #1 geopolitical factor forcing fundamental IT strategy changes.



The Repatriation Surge

83%

of enterprises are considering repatriation to private cloud, driven by challenges with security and compliance, cost predictability, and performance.

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The Infrastructure Compromise: Velocity vs. Control

For a decade, enterprises have been forced to choose:

- (a) the developer velocity of the public cloud—but with its unpredictable billing—or
- (b) the governance of the private virtual data center—but with its manual friction.

The Public Cloud Experience

- ✓ **Self-service provisioning** in minutes via declarative APIs, CLI, and Infrastructure as Code.
- ✓ **Developer autonomy** with immediate access to ready-to-use services and zero ticket wait times.
- ✗ **Unpredictable billing sprawl and exorbitant data egress fees** that erode IT budgets.
- ✗ **Compliance risks and complex data sovereignty challenges** when relinquishing infrastructure control.

Traditional Private Virtual Data Center (Not a cloud yet)

- ✓ **Strict data sovereignty** and absolute architectural control over compliance boundaries.
- ✓ **Highly predictable economics** with fixed hardware capital expenditures and zero egress fees.
- ✗ **Ticket-based provisioning requests** that take days or weeks to fulfill.
- ✗ **Manual, siloed workflows** resulting in IT bottlenecks that severely stall software innovation.

What if you no longer
had to compromise?



Deliver the **API-driven agility** of the public cloud with the **economic predictability** and **strict sovereignty** of on-premises infrastructure.

The Open Ecosystem-based Self-Service Private Cloud Approach

Flexibility Without Fragmentation - Modern enterprises require an Open App Platform to maintain control over software delivery pipelines without sacrificing developer velocity. VMware Cloud Foundation delivers a self-service private cloud with an integrated foundation of IaaS, containers, and Kubernetes services that seamlessly supports existing, best-of-breed toolchains—bridging the gap between robust infrastructure and high-velocity CI/CD.



Best-of-Breed Bring Your Own Tooling

Designed for organizations that value architectural control and custom configurations. Rather than mandating a restrictive, proprietary stack, the platform supports a standard-based, build-your-own (BYO) approach to application delivery.

Protecting Prior Investments: For teams accustomed to managed cloud Kubernetes runtimes or alternative enterprise distributions, this approach protects existing CI/CD investments. Developers retain the absolute flexibility to integrate the specific open-source or commercial components they prefer.



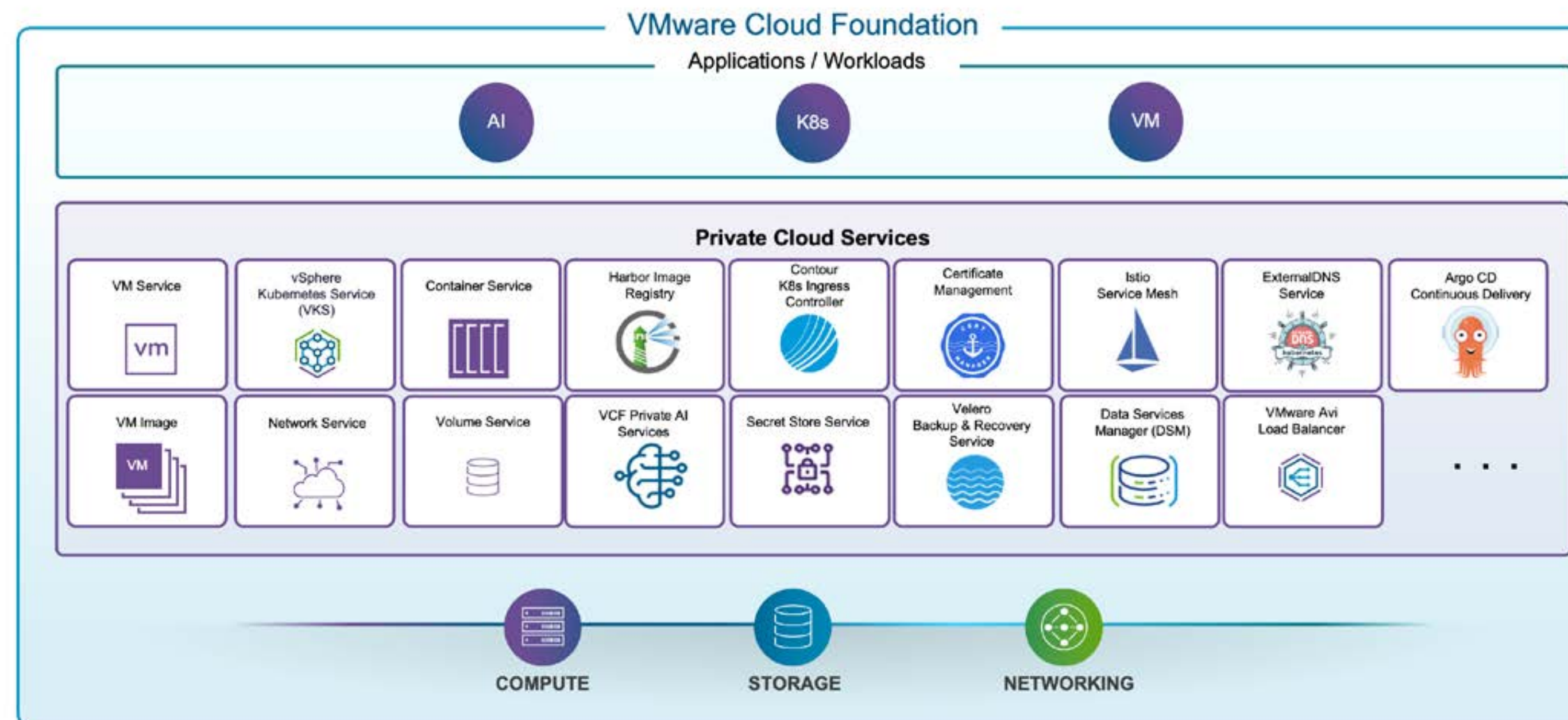
Unified and Declarative A single, consistent Kubernetes API

Instead of managing disparate infrastructure silos, the platform provides a unified control plane across all workload types—virtual machines, containers, and AI services.

Programmable Infrastructure: By exposing a single, declarative Kubernetes API, the underlying rock-solid IaaS becomes fully programmable. This standardized interface guarantees that custom CI/CD pipelines can reliably provision exact resources at production scale, paving the way for seamless GitOps integration.

Introducing Private Cloud Services

Public cloud-like infrastructure services included with VCF delivered through a unified self-service consumption experience. Application teams consume compute, storage, networking, and cloud-native platform services via a single, consistent declarative Kubernetes-style API, simplifying operations and reducing the need for separate platforms.

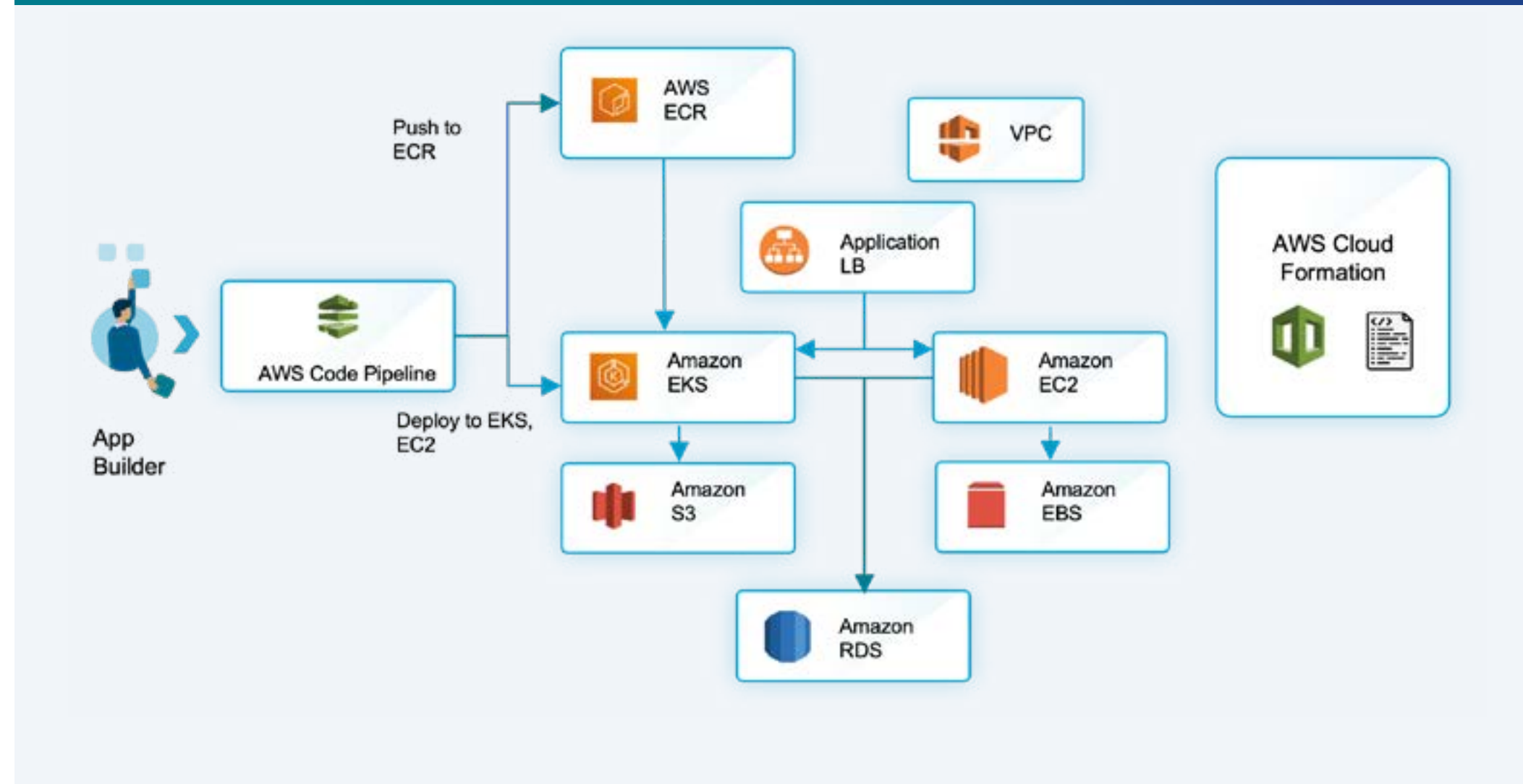


Private Cloud Services provide self-service for compute, storage, networking, and cloud-native platform services natively within your data center. By delivering comprehensive capabilities such as IaaS, CaaS, KaaS, VPCaaS, DBaaS, LBaaS, etc., this unified model helps bring applications to market faster by empowering developers with instant infrastructure access. For IT leaders, it maximizes ROI and eliminates unpredictable cloud fees while ensuring data sovereignty, operational consistency, and automated, policy-based governance.

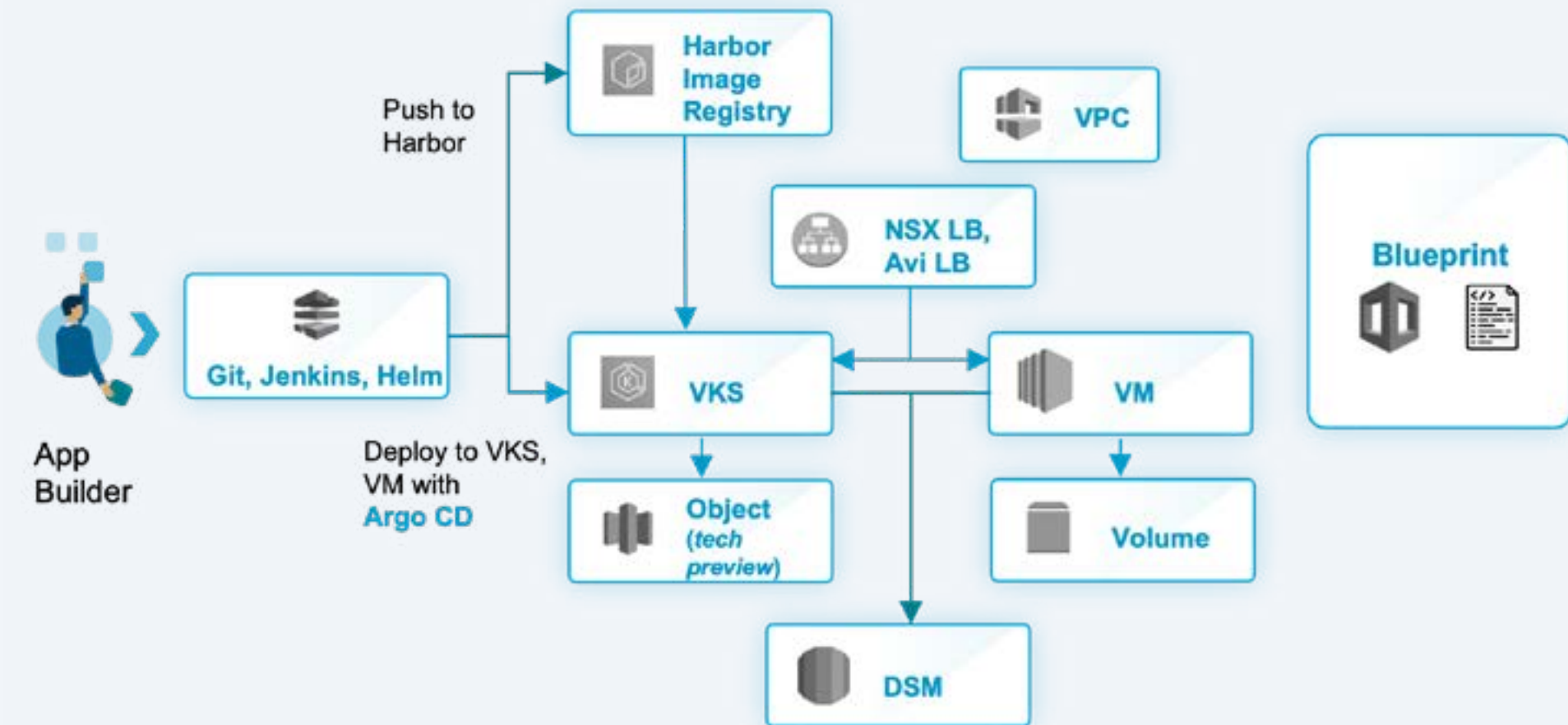
The extensible architecture helps future-proof your private cloud by seamlessly integrating third-party capabilities, including open-source tools. This modular architecture empowers IT leaders to continuously expand platform functionality without creating operational silos, ensuring developers always have the latest tools while maintaining strict, centralized governance and compliance across the enterprise.

The AWS Experience — On Your Infrastructure

A typical application in AWS Public Cloud



Similar application experience in VCF Private Cloud



VCF delivers a unified application experience that mirrors the public cloud, entirely on-premises.

Same developer experience. Your data center. Your rules. Your budget.

Application teams build modern software using standardized architectures: they need a code repository, an image registry, a container runtime, isolated networking, scalable storage, and databases. Public clouds like AWS provide these as distinct, API-driven services (e.g., ECR, EKS, S3, RDS). Historically, replicating this service-driven architecture in an on-premises data center required stitching together dozens of fragmented, third-party tools. With VCF, Enterprise IT can offer an identical, consumption experience natively within the private cloud. Developers can push code to a Harbor Image Registry, deploy to the VMware vSphere® Kubernetes Service (VKS) or VMs using Argo CD, and back their applications with Native Object Storage and VMware® Data Services Manager (DSM). It is the exact self-service IaaS experience developers expect, backed by the security, data sovereignty, and cost predictability of your on-premises data center.

The Runtime Spectrum: Right-Sizing Workloads for Maximum ROI

Right-size every workload across VMs, serverless containers, and managed K8s to deliver public cloud agility while securing your IP, eliminating lock-in, and maximizing infrastructure ROI.

	 VM Service	 Container Service	 vSphere Kubernetes Service (VKS)
What	Designed for traditional, heavy workloads requiring full operating system isolation and maximum hardware compatibility.	Ideal for fast, lightweight, serverless-like isolated containers without the heavy overhead of a full K8s cluster.	Engineered for complex, orchestrated microservices needing full Kubernetes control, scalability, and API access.
How	Delivers a true self-service IaaS experience for virtual machines—matching the rapid provisioning of AWS EC2. Deploy and manage VMs instantly via a catalog, Terraform, or declarative K8s manifests.	Lets developers provision and manage containers through an intuitive UI or the same K8s-native APIs they already use. No tickets, no wait times — just a few clicks or kubectl apply and go.	Delivers fully managed AI-conformant K8s clusters in VCF — matching the lifecycle automation, scalability, and developer experience of AWS EKS, without the data leaving your network.
Why	Unlike public cloud instances that can frequently incur unpredictable billing sprawl and exorbitant data egress fees, the VM Service maximizes ROI via intelligent resource optimization, ensuring absolute data sovereignty and unified governance.	Unlike opaque public serverless models, this ESXi-native runtime eliminates cluster overhead. It delivers developer agility and strict security—without unpredictable costs, vendor lock-in, or compliance risks associated with public cloud.	Unlike fragmented public clouds with costly egress fees, VKS securely unifies AI, container, and VM workloads—delivering centralized, multi-cluster governance while keeping your sensitive intellectual property strictly on-premises.

Persistent Volume & S3 Object Storage On-Prem: The Data Sovereignty Imperative

Stateful modern applications and AI workloads demand dynamic, scalable storage. By delivering S3-compatible object storage and declarative Persistent Volume Services natively on-premises, VCF eliminates public cloud egress fees, guarantees strict data sovereignty, and empowers developers with instant, API-driven storage provisioning.

Native Persistent Volume Service for Stateful Workloads

The Volume Service abstracts block and file enterprise storage into a cloud-native consumption model. Platform engineers and developers can dynamically provision, expand, and protect persistent volumes using standard Kubernetes APIs (PVCs), all backed by IT-defined storage policies and multi-zone high availability. VCF supports the most common file service protocols (NFS v4.1 & v3 and SMB v3 & 2.1) and both RWO and RWX PVs.

Use Case: Ideal for stateful microservices, distributed databases, and persistent AI data sets. It grants application teams frictionless, self-serve access to highly available block and file storage, while IT enforces absolute architectural control over quotas, performance tiers, and data protection SLAs—eliminating the traditional storage provisioning ticket.

VMware® vSAN™ S3 Compatible Object Storage*

Announced as a native capability of VCF, this transforms your highly efficient vSAN storage into a fully multi-tenant object store. There is no need for expensive, proprietary third-party storage hardware or licensing.

Use Case: Ideal for DevOps and AI workloads. Application teams can instantly self-provision isolated S3 buckets via VCF Automation, retaining data completely on-premises while benefiting from vSAN's performance, scalability, lower cost and efficient linked clones from vSAN's native snapshots.

*coming soon; [currently in TechPreview](#)

Networking as a Service: The End of the IT Ticket

Traditional network provisioning is the leading cause of application deployment delays. VCF eliminates this friction by abstracting complex network architectures into consumable, self-service resources via declarative APIs and Virtual Private Clouds—while ensuring Enterprise IT maintains absolute architectural control.



Isolated dev environments with VPCs

The first thing developers need when building modern applications is an isolated environment. VCF delivers public cloud-like, multi-tenant networking experience directly on-premises by pairing [namespaces](#)—secure, resource-isolated sandboxes—with [Virtual Private Clouds \(VPCs\)](#)—self-contained, isolated network domains.

Within this space, developers can manage subnets and firewall rules for their workloads without requiring enterprise admin privileges. This enables high-velocity self-service networking within strict, provider-defined guardrails.



Self-Service access to Network Services

Empower application teams to instantly self-provision core network configurations without ticketing bottlenecks. Developers can seamlessly deploy subnets, static routes, and load balancers via declarative APIs or a curated catalog to accelerate delivery.

Within their namespace, teams can deploy advanced application services, such as enterprise-class load balancing powered by [VMware® Avi™ Load Balancer](#) and stateful distributed firewalls rules powered by [VMware® vDefend™](#). This ensures that zero-trust micro-segmentation is baked into every deployment to protect workloads directly from Day 0.



Common networking for both Containers & VMs

Developers no longer need to worry about underlying network complexity. VCF simplifies connectivity by delivering a unified, common network model that natively supports both container/Kubernetes (VKS) and virtual machine workloads on the same fabric.

Using the new [VKS multi-network support](#), developers can declare node-level network segmentation in YAML alongside cluster definitions, natively integrating the [Istio Service Mesh](#) for microservices while maintaining direct, simplified VM-to-container connectivity.

GitOps-Based Continuous Delivery: Deploying at the Speed of Developers

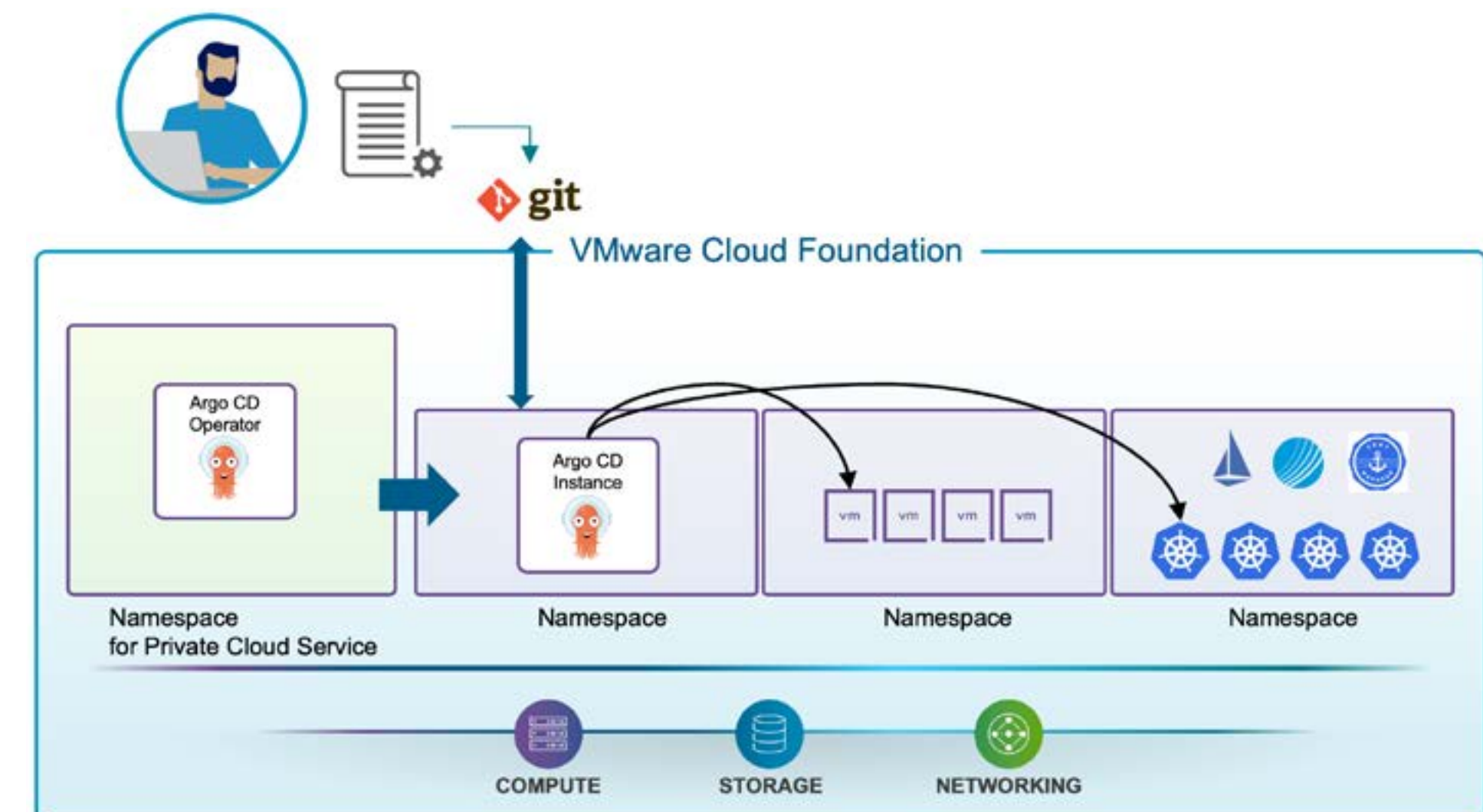
VCF supports GitOps practices aligned with modern DevOps workflows. Argo CD — integrated as a private cloud service — enables declarative, version-controlled deployments directly to VKS clusters and VM-based environments.

For modern development teams, Git is the single source of truth. Manual infrastructure provisioning disrupts the continuous integration and continuous delivery (CI/CD) pipeline. VCF bridges this gap by enabling true GitOps-based infrastructure delivery.

By using declarative infrastructure APIs, VCF enforces environment immutability. Any unauthorized configuration drift is automatically detected and remediated, ensuring strict compliance across all ephemeral environments without manual intervention.

The GitOps Workflow in VCF:

1. **Code Commit:** A developer pushes application code and infrastructure manifests to a Git repository.
2. **Argo CD Sync:** [Argo CD \(installed as a service\)](#) detects the change and automatically synchronizes the desired state.
3. **Automated Runtimes:** VCF Automation dynamically provisions the required vSphere Pods, VKS clusters, or VMs.
4. **Extensible Services:** Traffic is routed via an Istio Service Mesh and Contour ingress, certificates are automatically minted via CertManager, and credentials are securely injected using the Secret Store Service.



Native declarative APIs exposed via VCF Automation provide platform engineers the flexibility to seamlessly integrate standard open-source tools (e.g., ArgoCD and Velero) directly into their provisioning workflows, enabling a customized 'bring your own tool' (BYOT) experience without sacrificing centralized lifecycle management.

Enterprise DBaaS: Anchoring Data Gravity in the Private Cloud

To successfully deploy scalable AI and modern applications, compute must remain adjacent to data. By delivering an authentic, API-driven Database-as-a-Service (DBaaS) experience natively on-premises, VCF empowers developers while mitigating the sovereignty risks and compounding egress costs of the public cloud.

The Enterprise Database Trinity

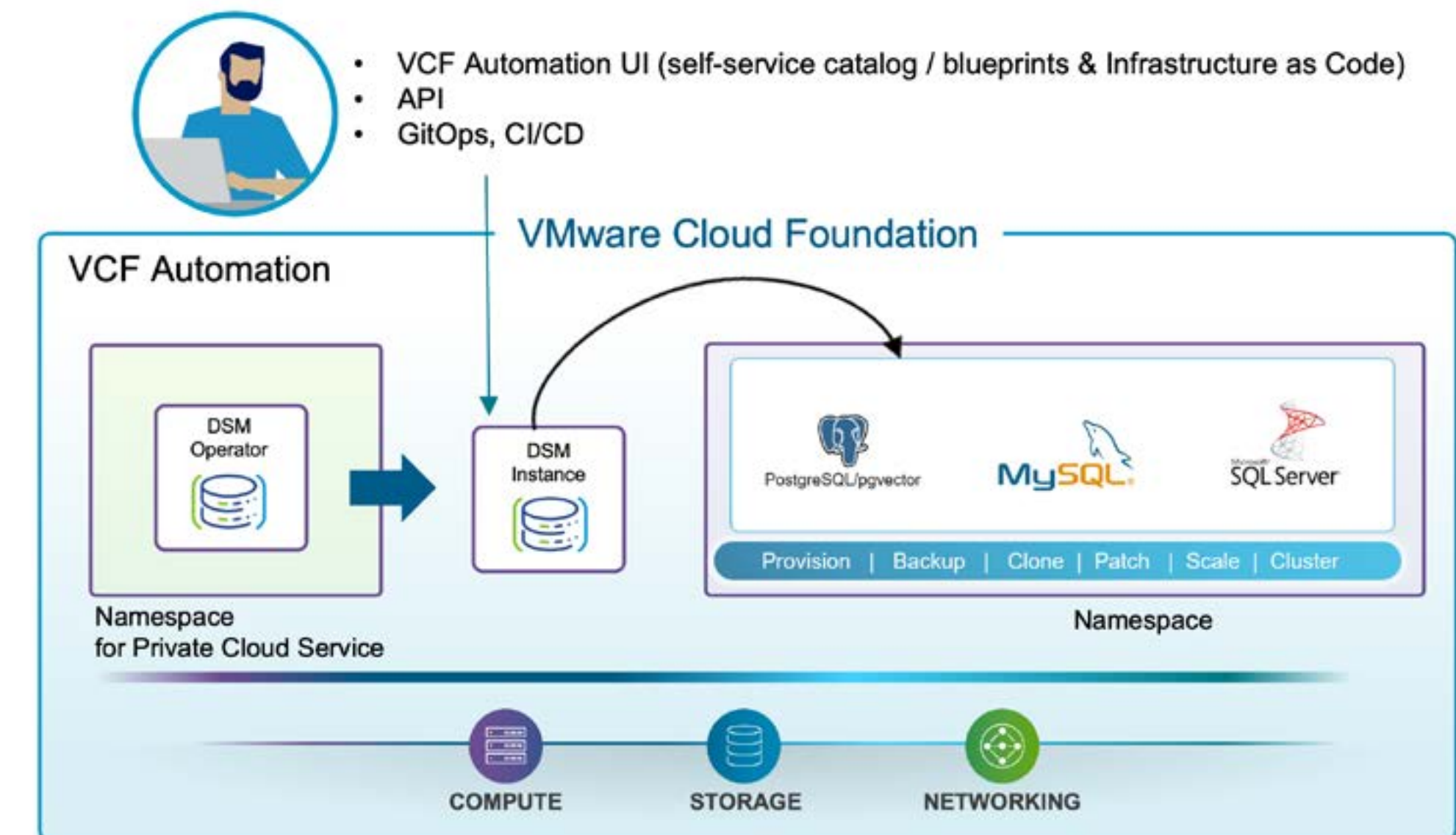
VMware Data Services Manager (DSM) serves as a native VCF Advanced Service, delivering unified lifecycle management across the top three virtualized platforms that power the vast majority of enterprise workloads: PostgreSQL, MySQL, and Microsoft SQL Server 2022.

AI-Ready, Sovereign Infrastructure

Public cloud AI services frequently require transmitting proprietary data outside corporate perimeters. DSM supports PostgreSQL with the pgvector extension, enabling teams to build Retrieval-Augmented Generation (RAG) and semantic search workflows entirely within a secure, FIPS 140-2 compliant environment. This keeps intellectual property strictly on-premises and eliminates public cloud egress fees.

Governed Self-Service for Developers

Manual database provisioning creates critical bottlenecks in the CI/CD pipeline. Through VCF Automation, developers gain instant, API-driven access to databases utilizing Infrastructure-as-Code. Meanwhile, IT administrators apply policy-as-code to enforce backup schedules, high-availability thresholds, and security hardening—delivering developer agility securely by default.



Unlike third-party tools, DSM is a native VCF Advanced Service. Admins manage databases, VMs, and Kubernetes from a single console, eliminating tool fatigue. Developers use one self-service API—fully supporting IaC and GitOps—to provision databases as part of their CI/CD pipelines. One platform, one workflow.

VCF Private AI Services: GPU-Powered Workloads On Your Terms

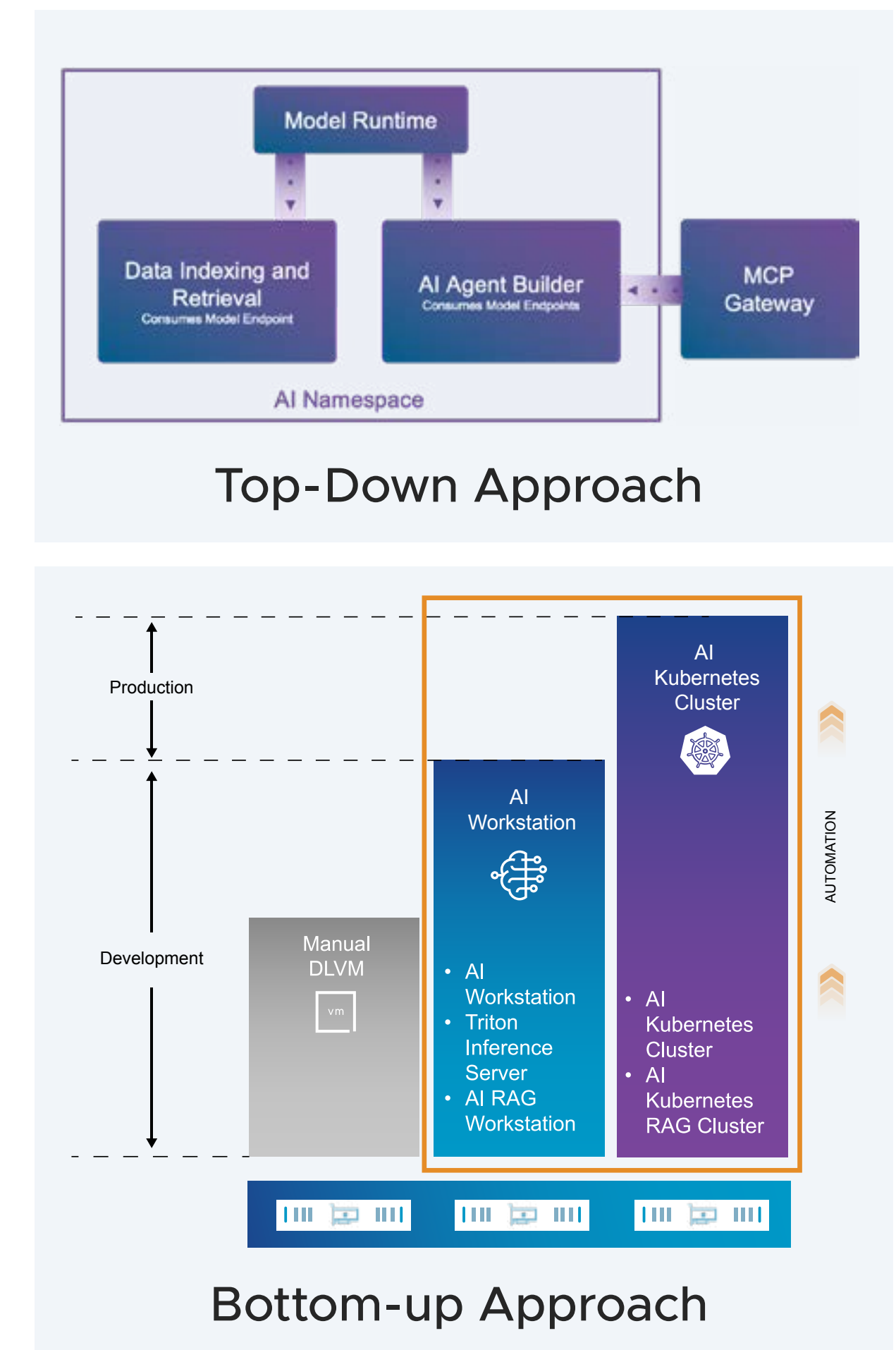
Bring models to your data. Empower developers to deploy models in your private cloud. Automate GPU-enabled infrastructure and AI developer services to instantly deliver secure, enterprise-ready AI-as-a-Service.

Public cloud AI risks intellectual property by moving data outside corporate perimeters. [VCF Private AI Services](#) solves this by “bringing models to your data,” delivering governed AI-as-a-Service within your secure private cloud.

This balances strict IT control with developer velocity through two approaches:

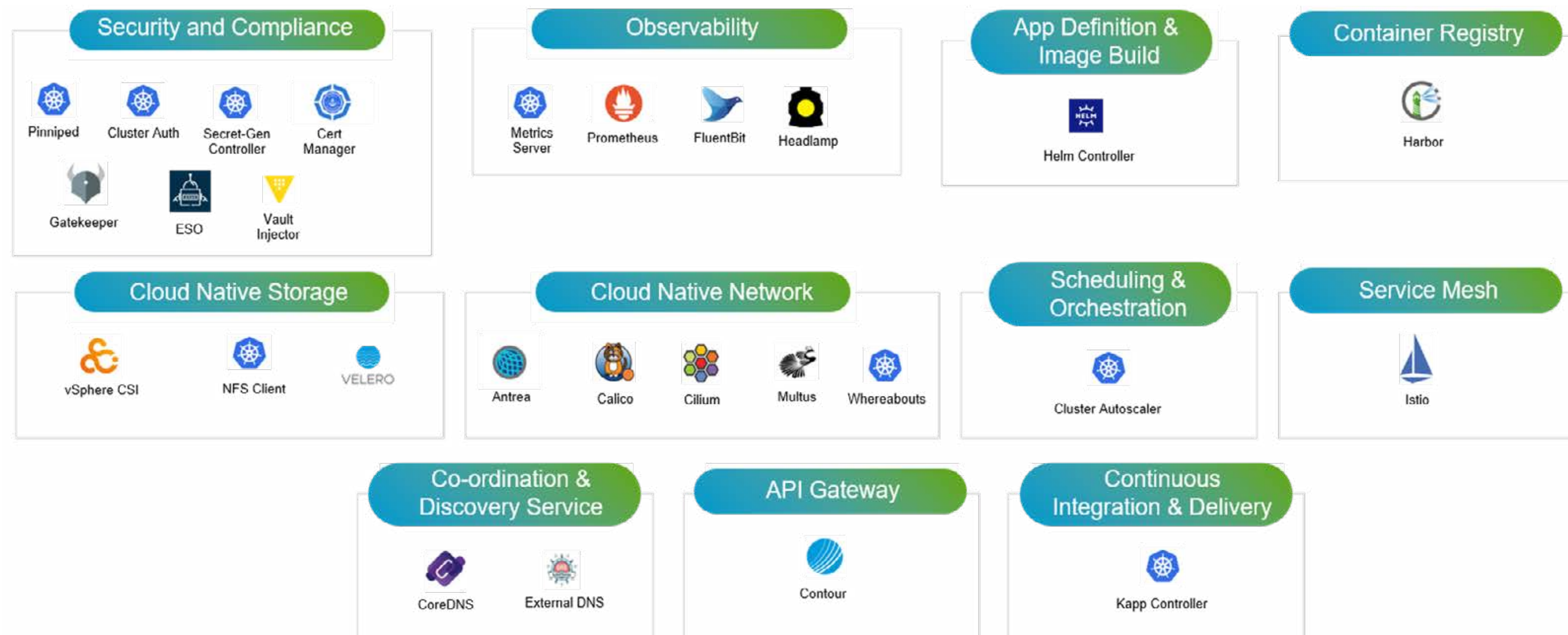
- **Quickstart NVIDIA-based Infrastructure (Bottom-Up):** Curate optimized infrastructure via a self-service catalog, strictly governing expensive GPU allocations through standardized Deep Learning VMs and AI Kubernetes Clusters.
- **Accelerated Development (Top-Down):** Enable developers to instantly consume higher-level tools to drive innovation:
 - **Secure Models & Runtimes:** Rapidly deploy models from the secure model store to create model endpoints for private inferencing.
 - **“RAG Builder”:** Securely connect proprietary enterprise data to LLMs for context-aware workflows. Integrated Vector DBs alongside Data Indexing and Retrieval services.
 - **AI Agent Builder:** Combine models and knowledge bases to quickly build intelligent AI agents.
 - **Model Context Protocol (MCP) Governance:** Connect MCP servers and choose which tools to expose, governing AI agent capabilities.

Maximizing ROI and Security - VCF maximizes your GPU capital investment through precise infrastructure observability. By securing the entire stack—from the hypervisor to the AI agent—VCF helps prevent lateral attacks and supports compliance, mitigating the risks of AI data leakage.



A Thriving Ecosystem of Cloud Native Services

The private cloud cannot be static. VCF is designed with a modular architecture that empowers IT leaders to continuously expand platform functionality without creating operational silos. [VCF includes a comprehensive set of open source packages](#) (pre-validated, supported add-ons for vSphere Kubernetes Service clusters to extend cloud-native functionality).



Redefining Private Cloud: The Provider and Consumer Paradigm

The Provider-Consumer Model

To resolve the tension between agility and control, IT organizations must fundamentally change how they operate. They must evolve from being reactive administrators of virtual machines to becoming internal Cloud Providers that offer services.

VCF establishes a clear demarcation between the “Provider” (Cloud Admins) and the “Consumer” (Application Teams, DevOps, and Data Scientists).

Providers utilize VCF Automation to establish secure, multi-tenant private clouds. Tenant Admins allocate resources, isolate infrastructure using VPCs, and enforce [policy-as-code guardrails](#).

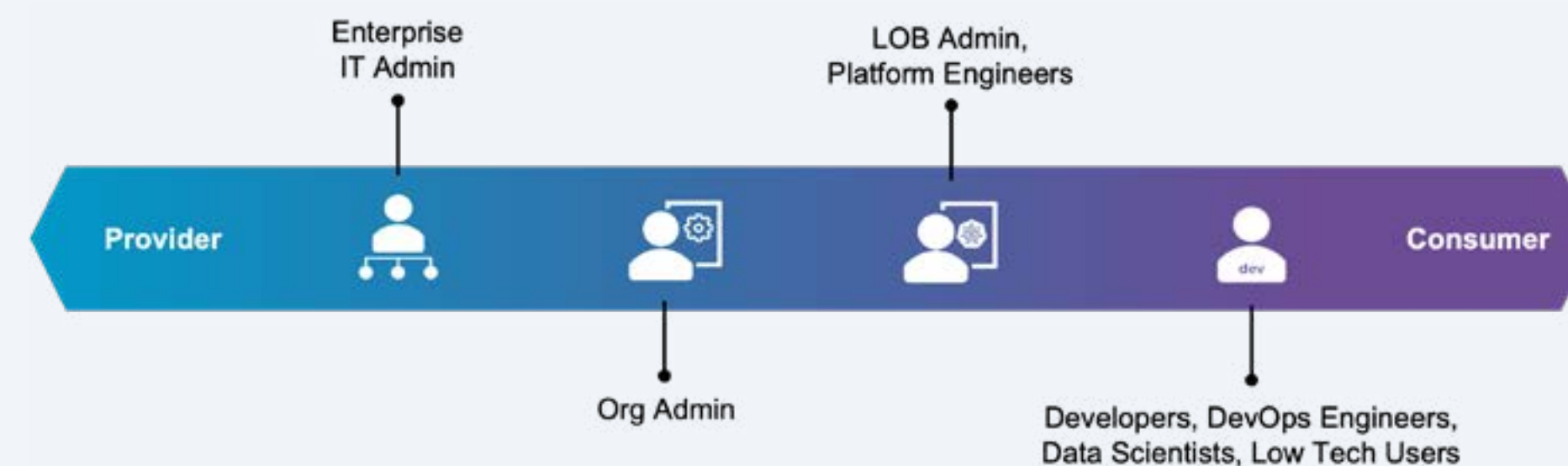
Consumers are then empowered with a Modern Cloud Interface. Through a curated self-service catalog or directly via declarative Kubernetes APIs, CLI, and GitOps workflows, consumers can instantly spin up the infrastructure they need—without submitting a helpdesk ticket.

Service Management

Through the [Service Management interface in VCF Automation](#), Cloud Admins can centrally integrate and lifecycle VMware and third-party capabilities directly into self-service catalogs, delivering foundational services across a multi-tenant private cloud. Powered by a regional Harbor registry, it eliminates manual overhead by centralizing updates and syncing pre-bundled services (e.g., VMware Data Services Manager, Secret Store Service, etc.). This streamlines operations and empowers platform engineers to rapidly build an Internal Developer Platform, accelerating access to secure, governed cloud services.

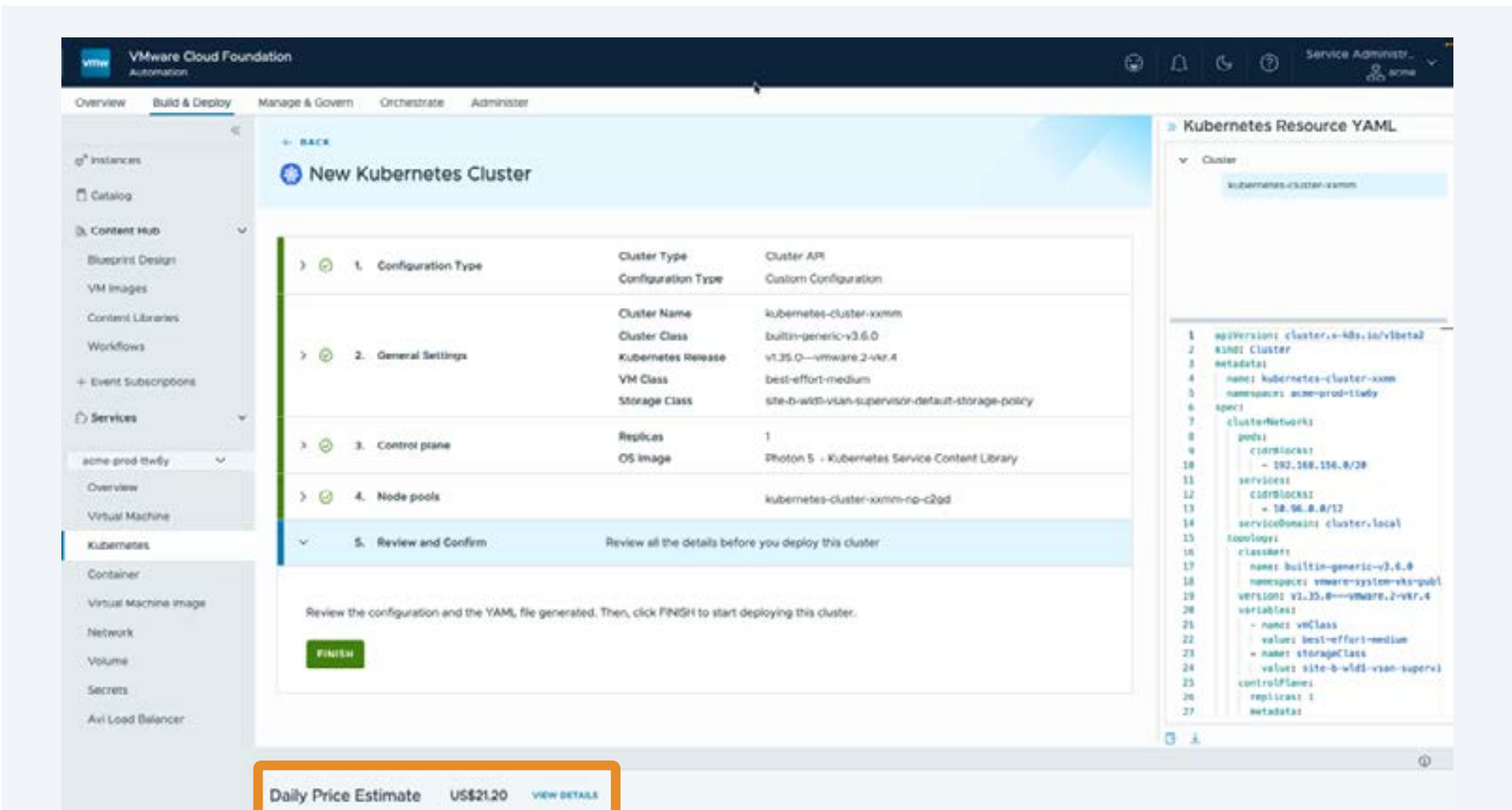
Example of Services:

- **Harbor Image Registry** - Secure, private OCI registry for storing, signing, and scanning container images and Helm charts.
- **VMware Data Services Manager** - Self-service provisioning and lifecycle management for modern databases (PostgreSQL, MySQL, SQL Server).
- **Secret Store Service** - Centralized management and automated injection of secrets for modern workloads.



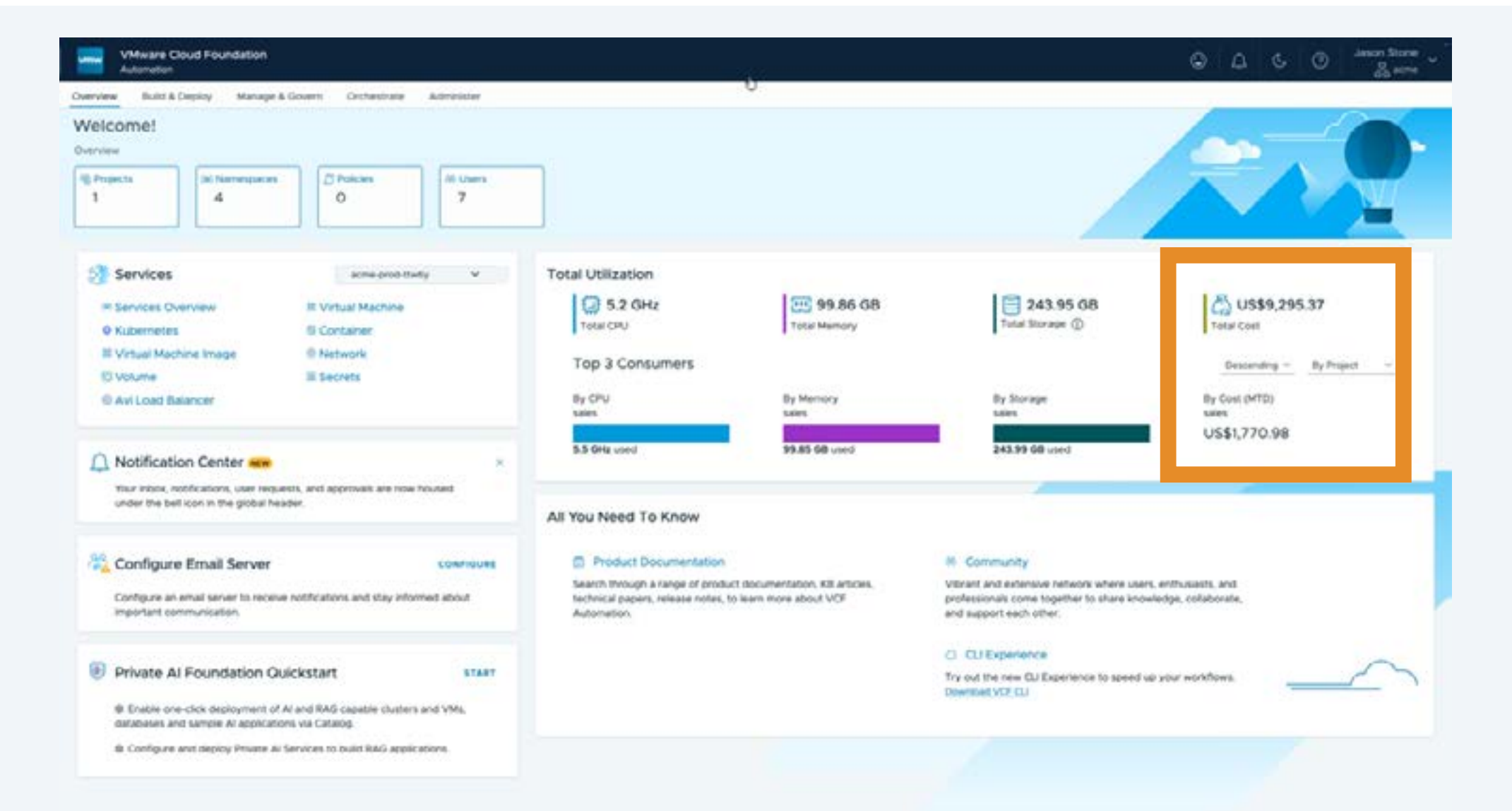
Embedded FinOps: Fostering Financial Accountability

With 52% of engineering leaders citing a FinOps-developer disconnect as a driver of wasted spending*, VCF bridges the gap by embedding cost intelligence directly into the provisioning workflow. Drive true financial accountability with upfront pricing and granular, project and namespace-level cost visibility that eliminates unpredictable public cloud billing sprawl.



Pricing Services

foster financial accountability from Day 1 with upfront pricing right within the provisioning workflow, controlling consumption behavior



Cost Management

translate technical consumption into total aggregated cost and drill down into specific cost breakdowns for individual projects and namespaces

* FinOps in Focus 2025

VCF Private Cloud as the IDP Engine

Platform engineering is how organizations tame cloud complexity. VCF Automation serves as the self-service private cloud engine behind your Internal Developer Platform (IDP) — providing the self-service infrastructure layer that platform teams curate and developers consume.

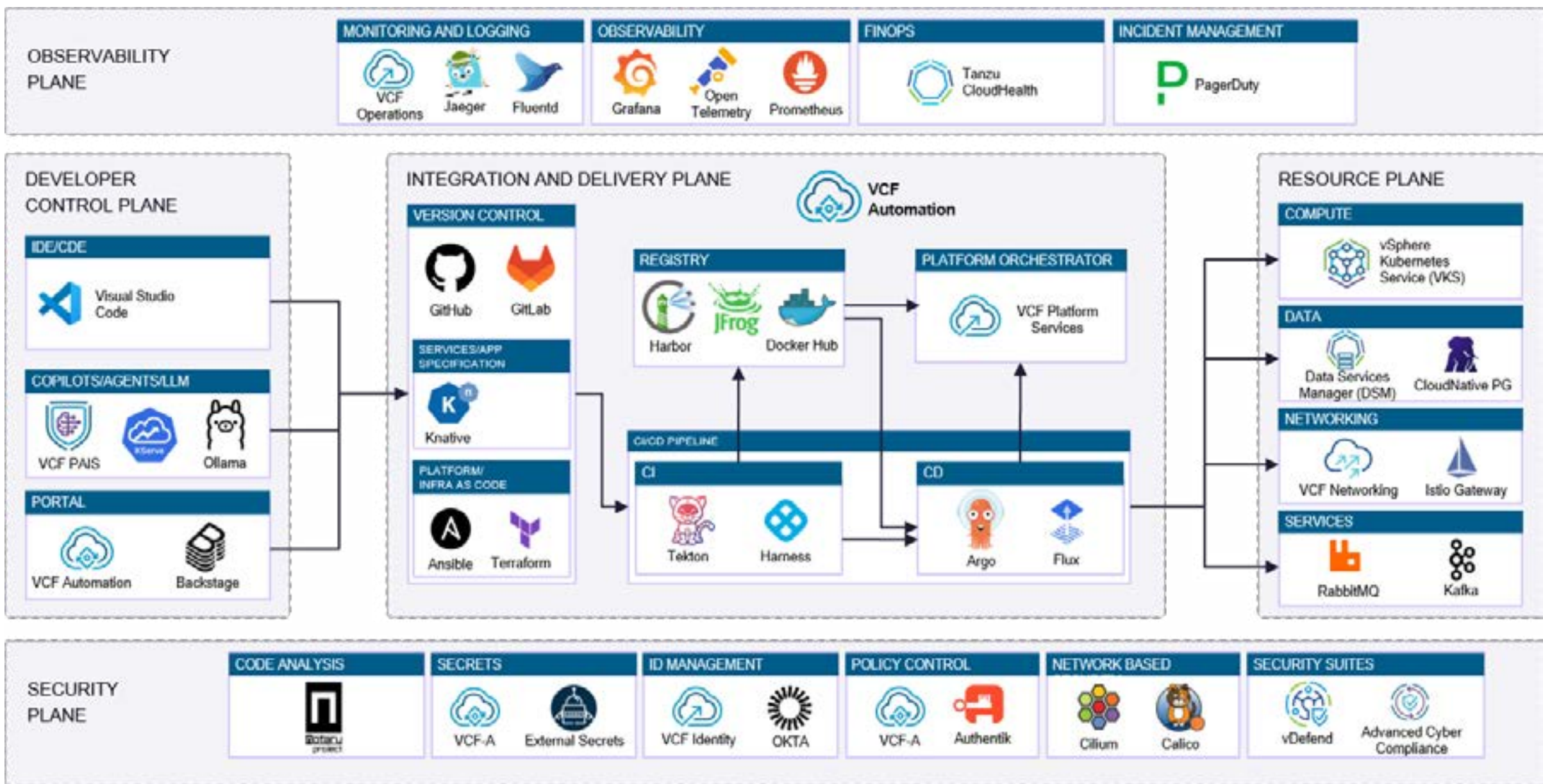
Powering the IDP - To streamline software delivery, 90% of organizations have adopted platform engineering, and 80% view AI integration as critical to their IDP success¹. However, an IDP is only as effective as the infrastructure engine powering it.

VCF serves as the private cloud engine for your IDP. It abstracts away the underlying infrastructure complexity, providing platform engineers with an enterprise-grade solution for managing fleets at scale.

Platform Engineering Benefits:

- **Unified Lifecycle Management:** Manage VMs, K8s clusters, and AI workloads through a single, declarative framework.
- **Frictionless Governance:** Apply identity access management, cost visibility, and resource limits across environments.
- **Built-in Kubernetes Management:** Gain centralized visibility and policy enforcement across a distributed fleet of VKS clusters.

Example of an IDP Reference Architecture² on VCF with the open app ecosystem

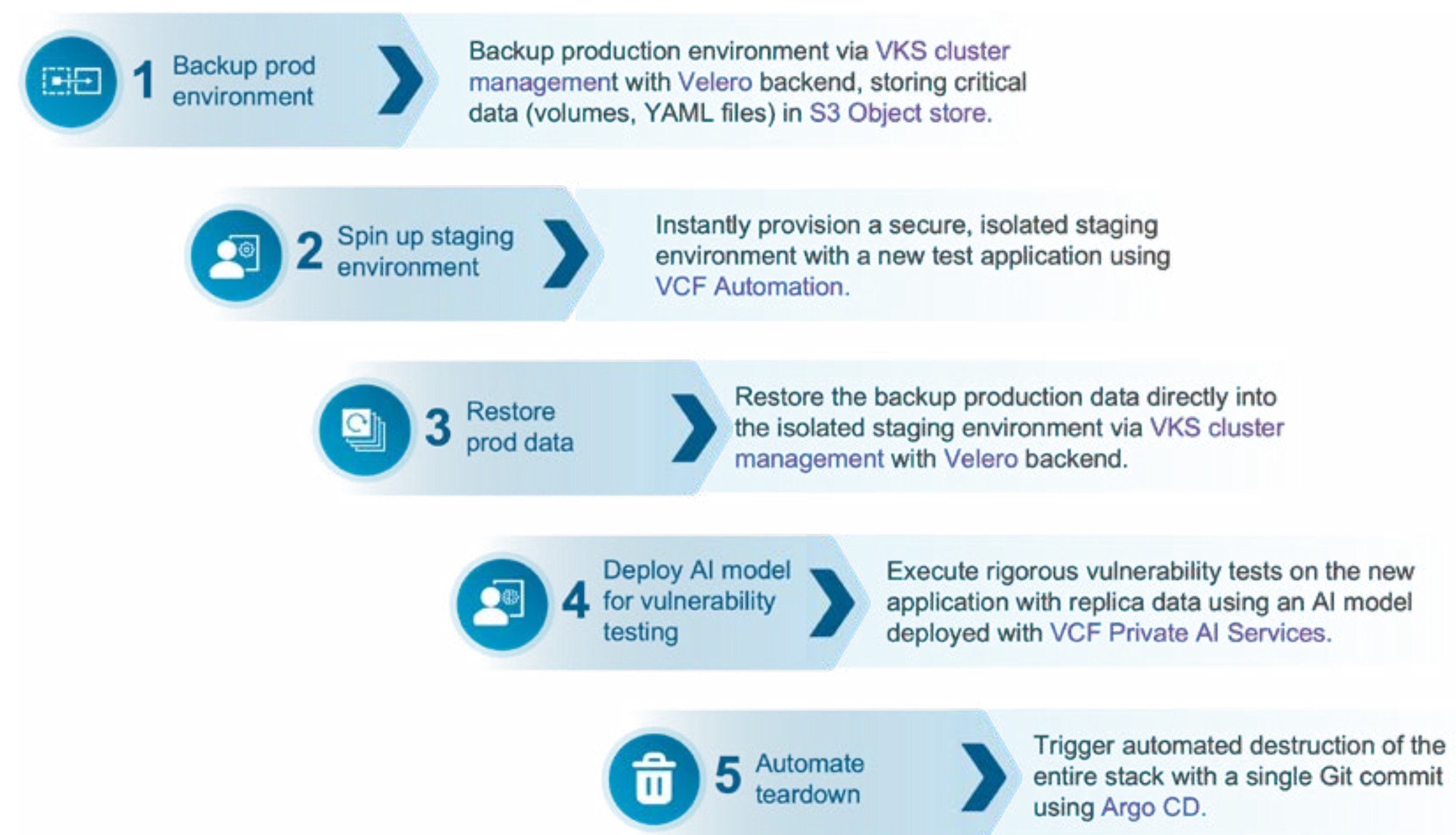


1. [Platform engineering 2.0: An evolution for the AI era](#), Weave Intelligence / Broadcom, 2026

2. Based on the Internal Developer Platform (IDP) framework by Platform Engineering (platformengineering.org)

Applied Use Case: Ephemeral AI-Driven Security Testing

Fortified Innovation with Private Cloud Services: Replicating production in minutes and destroying it in seconds for advanced static analysis in a secure, air-gapped environment—safeguarding proprietary corporate data from external exposure.



Illustrative Scenario VCF enabling security to ‘[shift down](#)’ directly into the infrastructure substrate, ensuring isolated execution environments are secure and compliant by default.

To safely validate existing systems or test new applications against advanced threats, enterprises require exact production replicas—without risking live systems or compromising data sovereignty.

In this workflow, platform engineers leverage [VKS cluster management](#) with a [Velero](#) backend to back up live production data, securely storing volumes and declarative YAML files in an [S3 Object store](#). [VCF Automation](#) is then used to instantly provision an isolated staging environment with a new test application, where Velero seamlessly restores the production-grade data.

With the exact replica staged, developers deploy an open source LLM, such as Meta Llama 4, via [VCF Private AI Services](#) to execute static application security testing. Once testing concludes, a single Git commit triggers [Argo CD](#) to instantly dismantle the stack.

The Private Cloud Advantage

This zero-trust, automated lifecycle allows organizations to leverage powerful AI models against production data and new code while strictly maintaining network isolation and regulatory compliance. It eliminates manual teardown waste and avoids public cloud egress fees.

Getting Started with Private Cloud Services

Moving to a private cloud services model does not require a rip-and-replace. VCF is designed to meet you where you are and grow with your needs.

Are you delivering a private cloud, or just a virtualized data center?

In an era defined by rapid AI integration and the need for high-velocity application delivery, traditional infrastructure management is no longer viable. A true private cloud must offer the frictionless self-service, scalable APIs, and operational agility of the public cloud, backed by the uncompromised security, data sovereignty, and cost control of your own data center.

VCF Automation within VMware Cloud Foundation eliminates the complexity of fragmented toolchains. By unifying VMs, Kubernetes, and AI workloads onto a single, automated consumption-based platform, you empower your developers to innovate faster, equip your platform engineers to scale efficiently, and enable your business to thrive in a competitive digital landscape.

It's time to stop managing infrastructure and start delivering private cloud services.

Sample Journey Path:

Phase 1 : Foundation Weeks 1–4	• Design & deploy VCF9.x with VCF Automation enabled • Configure tenants, projects, quotas, and role-based access • Enable core services: VM, container, VKS, etc. • Onboard pilot team of 5–10 developers
Phase 2 : Expand Weeks 5–12	• Add extensible services: Harbor, Argo CD, etc. • Implement GitOps workflows for application delivery • Enable Object Storage* for data-intensive workloads • Scale to broader developer teams and production apps
Phase 3 : Optimize On-going	• Repatriate workloads from public cloud (cost-driven) • Enable GPU services for Private AI workloads • Integrate with IDP portals (Backstage, custom) • Measure and report TCO savings vs. public cloud

*coming soon; [currently in TechPreview](#)

The Economics of Private Cloud: Reclaiming Predictability

Cloud repatriation isn't cloud rejection; it's a strategic correction. After a decade of "cloud-first" migrations, the math has fundamentally changed. Today, 9 out of 10 IT leaders agree that financial transparency and predictable costs are the definitive advantages of a private cloud.



The Public Cloud Waste

97%

of IT decision makers believe their public cloud spend is wasted, with 52% reporting that this waste exceeds a quarter of their entire cloud budget.



The AI Cost Reckoning

62%

of IT leaders are deeply concerned about the infrastructure costs of generative and agentic AI, driving 56% to mandate private cloud for inference / production workloads.



Private Cloud Boom

9 in 10

IT leaders agree that financial transparency and predictable costs are the definitive advantages of a private cloud.

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The Hyperscaler Premium: Paying for Services You Don't Use

While public clouds offer over 200+ services, enterprise consumption is overwhelmingly dominated by just three: Compute, Storage, and Databases. Hyperscalers charge a premium on core compute to subsidize the hundreds of niche, advanced services that most enterprises may never use.

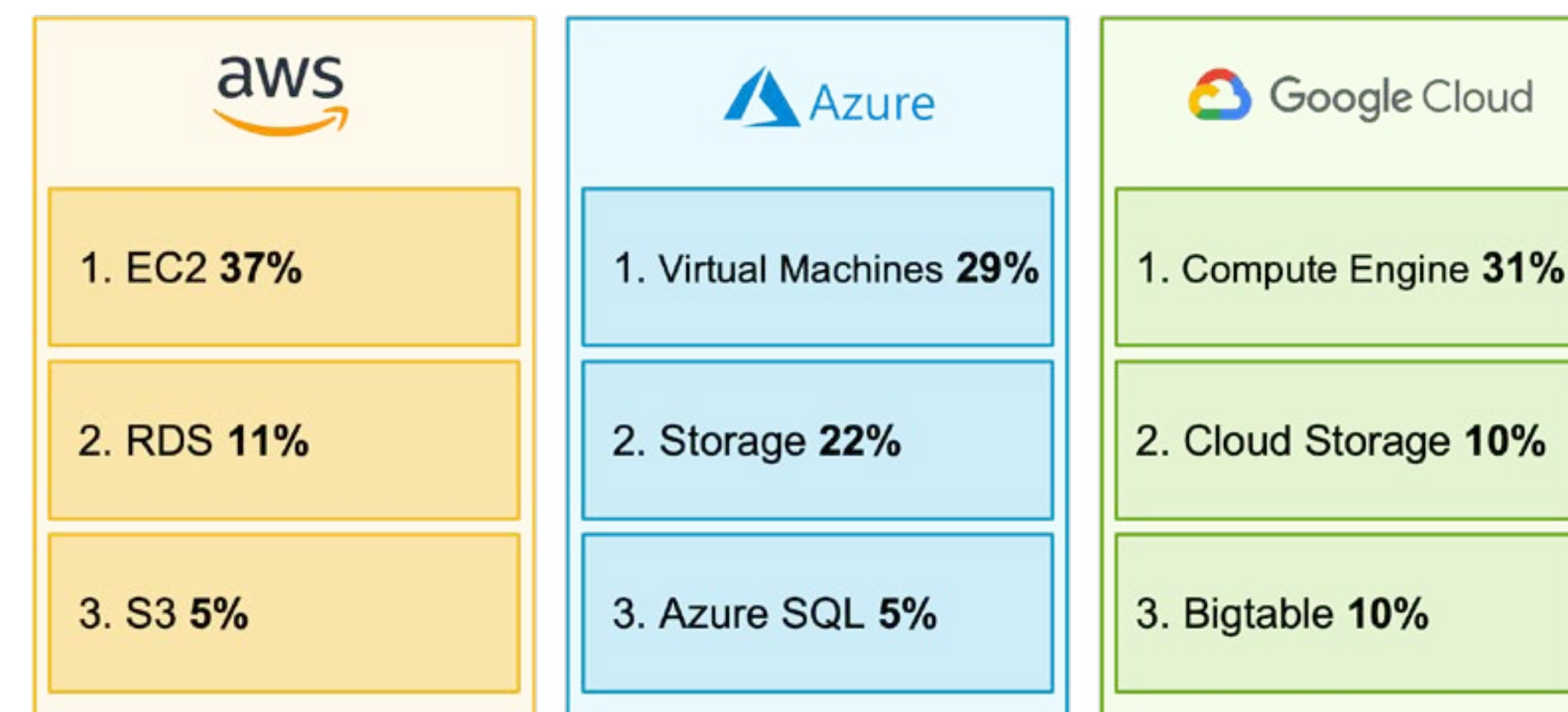
Hyperscalers bundle hundreds of advanced services into their pricing—whether enterprises use them or not. Across AWS, Azure, and GCP, just three services (VMs, Storage, Databases) can capture ~50% of your cloud spend¹. The rest is a long tail you are forced to subsidize. Why overpay for basic VMs in the public cloud just to fund the R&D and maintenance of hundreds of niche services you aren't using?

VCF covers them all. Core Infrastructure Alternatives:

- VM Service <- EC2 / Azure VMs / Compute Engine
- Object Storage² <- S3 / Storage / Cloud Storage
- DSM <- RDS / Azure SQL / Bigtable

VCF provides the core services that power the vast majority of workloads. VCF gives developers the exact same API-driven consumption for the top services they actually use, but without the hyperscaler markup.

Top Services by Spend Across AWS, Azure, and GCP



Across AWS, Azure, and GCP, three basic services account for ~50% of spend¹. You're paying a premium to subsidize hundreds of services you may never touch.

1. Source: Vantage Cloud Cost Report, Q2 2025

2. Coming soon; [currently in TechPreview](#)

If your developers can get an AWS-like experience on infrastructure you already own —why are you still renting?

The organizations that thrive in the next decade will not be the ones that chose the biggest cloud. They will be the ones that built the smartest cloud — one that delivers speed, sovereignty, and savings on their own terms.

Ready to Build Your Self-Service Private Cloud?

Discover how to unleash the cloud within your data center

LEARN MORE