pilothosts

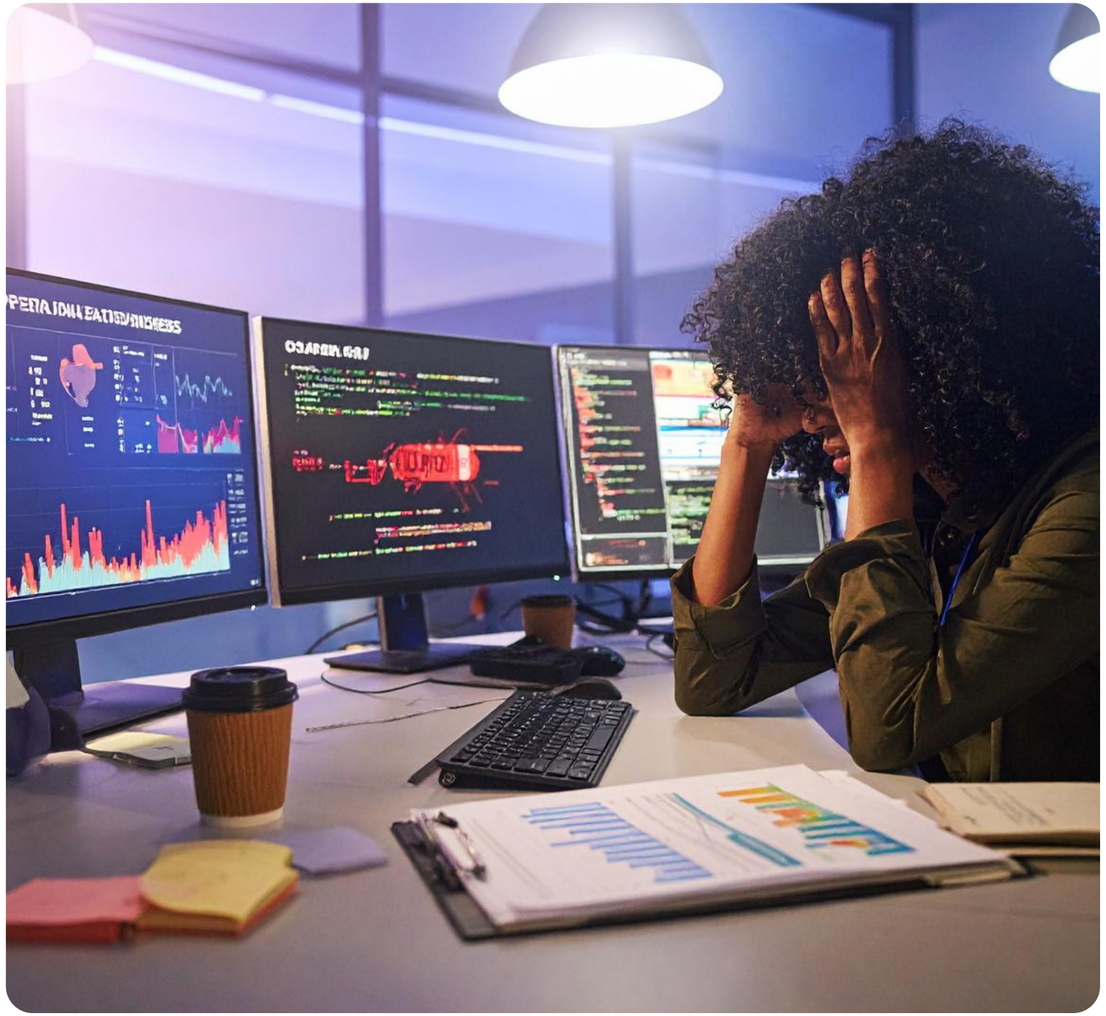
VISIBILITY • GOVERNANCE • AUTOMATION

PilotHosts is an appliance-based Day-2 operations platform built on top of vCenter for VMware environments, delivering visibility, governance, automation, compliance, and operational readiness..

OPERATIONAL BLINDNESS IN HYBRID INFRASTRUCTURE

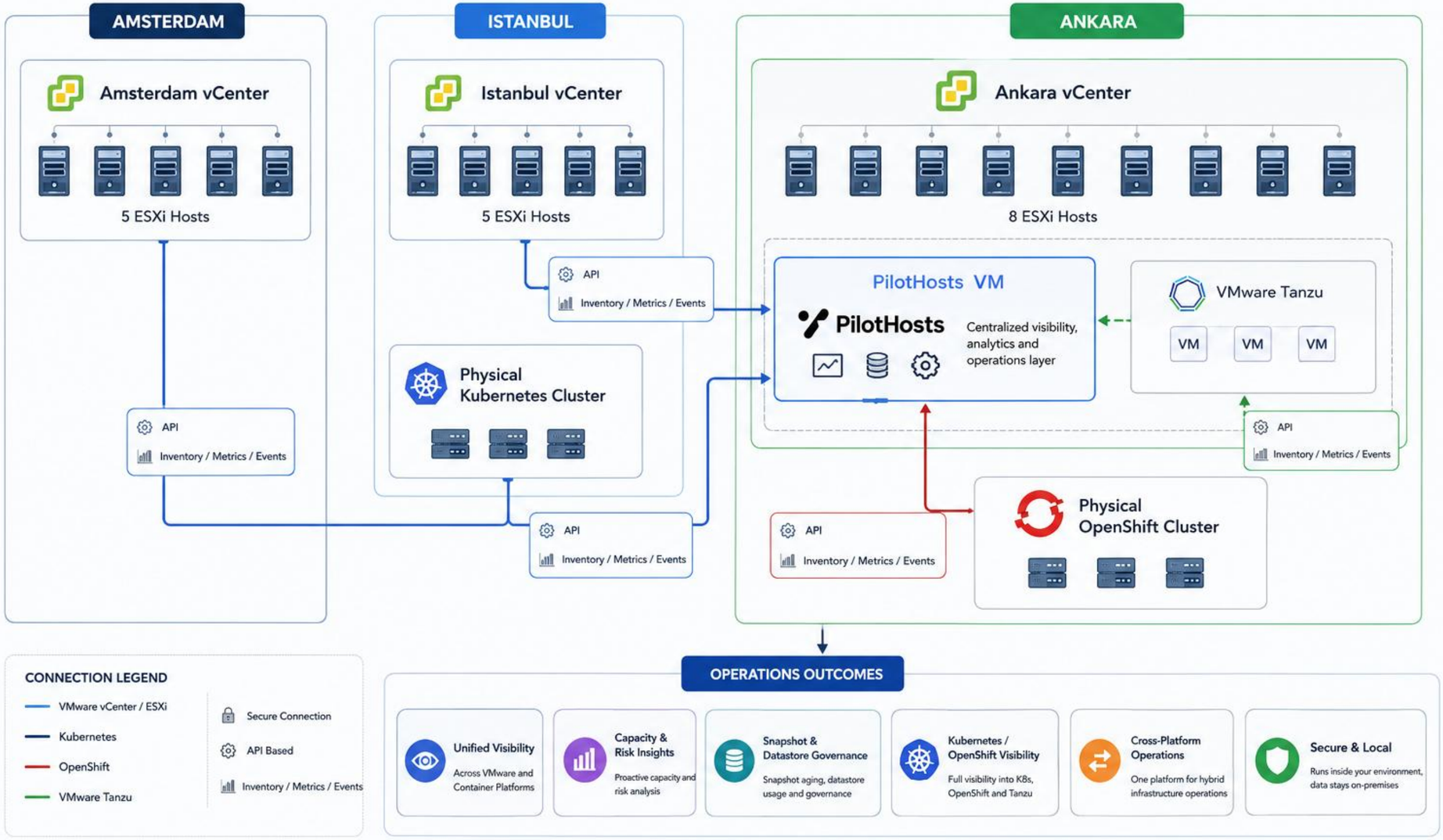
As VMware and Kubernetes environments scale, operations teams demand more than just a simple inventory view; they need to comprehend capacity risks, snapshot overhead, datastore utilization, privilege boundaries, and critical alerts from a single, unified interface.

All too often, capacity bottlenecks are detected too late, snapshots are forgotten, datastore risks are monitored manually, and the reliance on custom scripts and Excel spreadsheets continues to grow. Access management typically remains restricted to broad, coarse-grained roles, forcing teams to navigate through fragmented dashboards just to make informed decisions.



PilotHosts Hybrid Infrastructure Topology

Centralized visibility, analytics and operations layer for hybrid environments



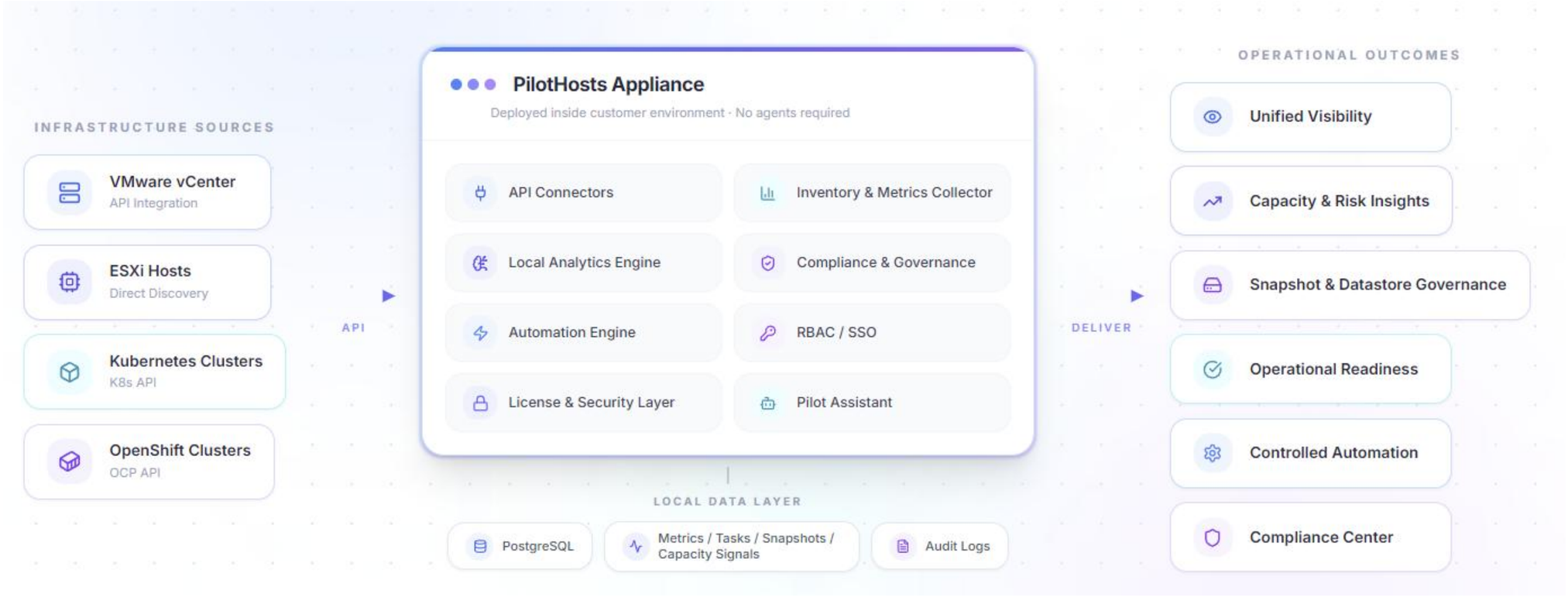
APPLIANCE ARCHITECTURE

APPLIANCE-BASED ARCHITECTURE

PilotHosts operates as a standalone appliance within the environment, connecting to vCenter and Kubernetes environments via API.

LOCAL ANALYSIS AND SECURE OPERATIONS

Inventory, metrics, snapshots, capacity data, and task signals are processed entirely within the appliance; no data is transmitted externally.



VMWARE OPERATIONS VISIBILITY

PilotHosts goes beyond merely listing VMware environments; it translates vCenter, ESXi, host, VM, SSL, version, task, capacity, readiness, and risk signals into actionable insights within a single operational layer. It does not replace vCenter; rather, it delivers augmented visibility, analytical depth, and execution capabilities.

VISIBILITY
VM, host, cluster, datastore, SSL ve erişim durumu

- **VM & Cluster** — Tüm VM ve cluster envanter
- **Host & vCenter** — ESXi host durumu ve bağlantı
- **Datastore** — Kullanım, kapasite, risk
- **SSL & Erişim** — Sertifika geçerlilik durumu
- **Versiyon Takibi** — vCenter / ESXi sürüm analizi
- **Bağlantı Sinyalleri** — Anlık erişim ve API durumu

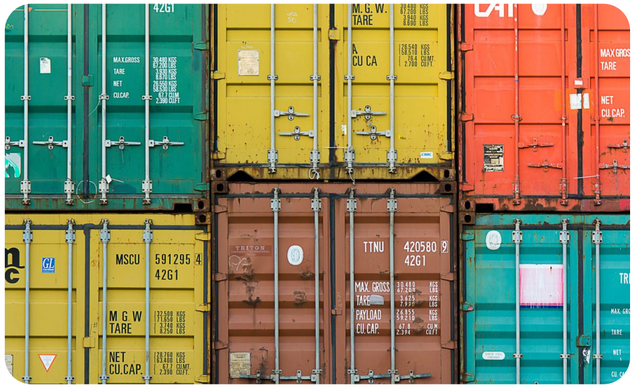
OPERATIONS
VM deploy, template, lifecycle ve operasyon geçmişi

- **VM Deploy** — Şablondan hızlı dağıtım
- **Template Yönetimi** — VM şablonu oluştur ve yönet
- **Lifecycle** — Güç, yeniden başlatma, sil
- **Recent Tasks** — vCenter görev geçmişi

INTELLIGENCE
LLM analizleri, readiness ve kapasite/snapshot riskleri

- **LLM Analizleri** — Doğal dil ile operasyonel soru-cevap
- **Maintenance Readiness** — Host bakım hazırlık skoru
- **Evacuation Planner** — VM taşıma ve boşaltma planlaması
- **Snapshot Riskleri** — Yaşlı ve riskli snapshot tespiti
- **Kapasite Riskleri** — Doluluk tahmini ve uyarılar

KUBERNETES OPERATIONS VISIBILITY



Likewise, PilotHosts does not simply display Kubernetes and OpenShift environments as a basic inventory of namespaces and pods; it synthesizes cluster, node, workload, service, ingress, and risk signals within the same unified operational layer. It is not intended to replace Rancher or the OpenShift Console; instead, it introduces supplementary visibility, health monitoring, and cross-platform risk analysis.

VISIBILITY
Cluster, node, namespace, pod, workload, service ve ingress

- **Cluster & Nodes**
  Node durumu, rol ve kapasite görünümü
- **Namespaces**
  Ortam, uygulama ve sahiplik ayrımı
- **Pods**
  Pod durumu, restart ve dağılım sinyalleri
- **Workloads**
  Deployment, DaemonSet, StatefulSet görünümü
- **Services & Ingresses**
  Erişim, endpoint ve trafik giriş noktaları

OPERATIONS
Workload deploy, namespace, ingress ve lifecycle yönetimi

- **Workload Deploy**
  Manifest ve şablondan hızlı dağıtım
- **Namespace Yönetimi**
  Oluştur, etiketle ve izole et
- **Ingress Kuralları**
  Trafik yönlendirme ve kural yönetimi
- **Lifecycle**
  Restart, scale ve rollback işlemleri

INTELLIGENCE
LLM analizleri, pod riskleri, kapasite ve güvenlik sinyalleri

- **LLM Analizleri**
  Doğal dil ile cluster soru-cevap
- **Pod Risk Sinyalleri**
  CrashLoop, OOMKill ve restart tespiti
- **Node Readiness**
  Bakım hazırlık ve tahliye planlaması
- **Kapasite Riskleri**
  CPU/Memory doluluk tahmini ve uyarılar
- **Uyumluluk & Güvenlik**
  Policy ihlalleri ve güvenlik sinyalleri

SNAPSHOT & COMPLIANCE GOVERNANCE

PilotHosts consolidates snapshot, datastore, VM configuration, and infrastructure risks into a single governance layer. Rather than relying on manual checks, operations teams are empowered with rule-based findings, risk scores, and actionable recommendations.

01

SNAPSHOT GOVERNANCE

Stale, orphaned, or uncontrollably growing snapshots are automatically detected. Snapshot age, size, and associated risk levels are made fully visible on a per-VM basis.

02

COMPLIANCE CENTER

VMware and cross-platform health checks are evaluated using rule-based policies. Risks associated with VM configurations, host configurations, datastores, snapshots, and Kubernetes are continuously monitored from a centralized hub.

03

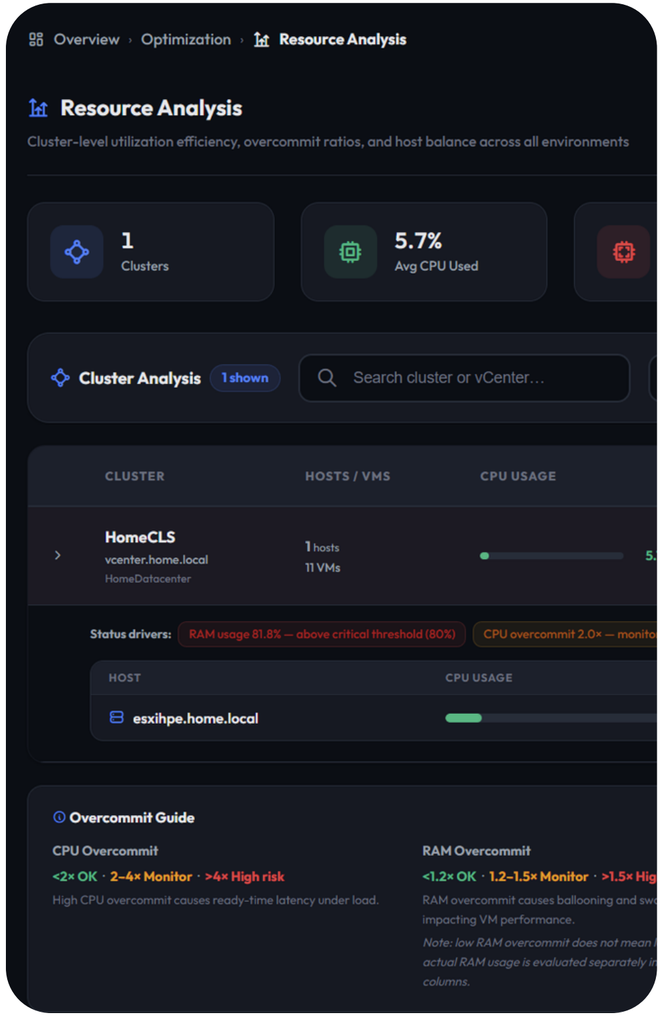
DATASTORE RISK

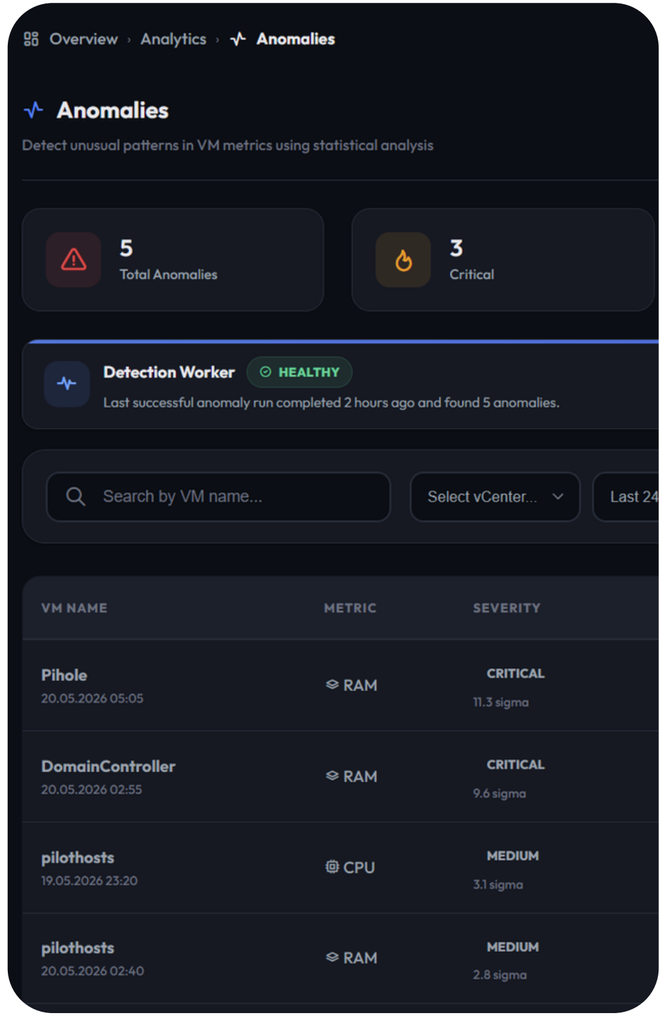
Datastore utilization, capacity signals, and storage areas approaching critical thresholds are clearly surfaced. This enables operations teams to take proactive action before storage risks turn into critical bottlenecks.

04

CROSS-PLATFORM FINDINGS

Kubernetes node VMs, ESXi host placements, snapshot statuses, and datastore utilization are analyzed holistically. Operational risks spanning across both the VMware and Kubernetes layers are thereby made entirely transparent.





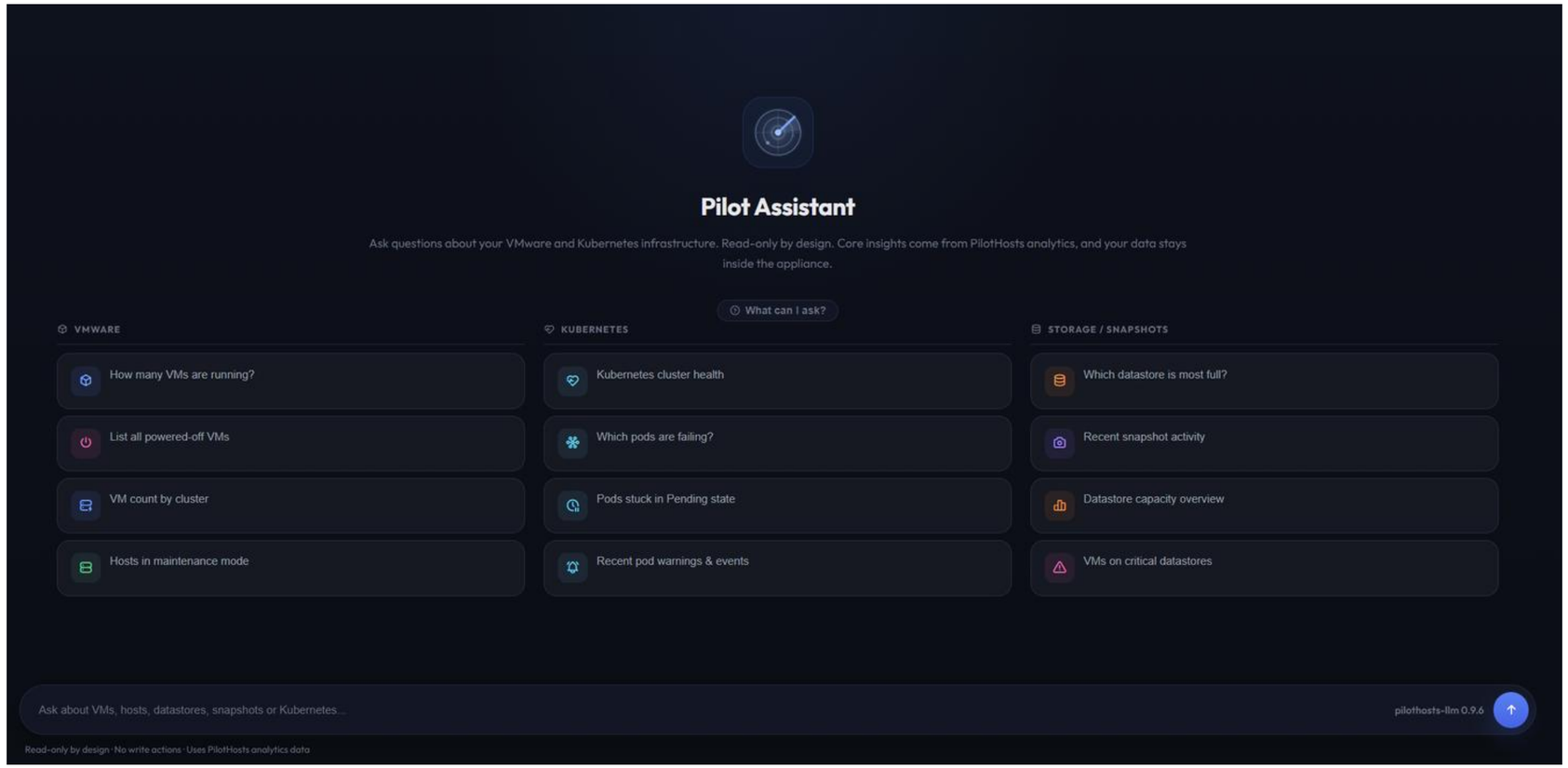
CAPACITY & RISK INTELLIGENCE

PilotHosts proactively surfaces capacity bottlenecks and operational risks by analyzing CPU, memory, datastore, snapshot, and workload signals. Rather than relying on manual monitoring, teams make informed decisions utilizing trends, forecasts, anomalies, and risk scores.

- CPU, RAM and datastore capacity trends
- Snapshot and storage risk signals
- Anomaly detection and resource utilization analysis
- Growth curve, forecast and operational risk scores

PILOT ASSISTANT

Pilot Assistant empowers operations teams to query VMware and Kubernetes environments using natural language. It analyzes vCenter, ESXi, datastore, snapshot, pod, node, and capacity signals leveraging PilotHosts data; rather than acting as a mere chat interface, it delivers a dedicated decision-support layer tailored specifically for infrastructure operations.



NATURAL LANGUAGE-POWERED OPERATIONAL INTELLIGENCE FOR VMWARE, KUBERNETES, AND STORAGE SIGNALS.

SUPPORTED PLATFORMS

PilotHosts extends VMware-centric infrastructure operations by integrating Kubernetes and OpenShift visibility. The objective is not to replace existing management tools, but rather to translate operational signals from disparate infrastructure layers into actionable insights within a single, unified platform.

vmware®

kubernetes

RED HAT® OPENSHIFT

IT DOES NOT REPLACE VCENTER, RANCHER, OR THE OPENSHIFT CONSOLE; RATHER, IT ADDS AN OPERATIONAL VISIBILITY AND DECISION-SUPPORT LAYER ON TOP OF THESE TOOLS.

FREQUENTLY ASKED QUESTIONS

01

How is PilotHosts deployed, and what is its core value?

PilotHosts is deployed into the customer environment as an OVA appliance VM. It provides secure, appliance-based operational intelligence for VMware and Kubernetes infrastructures.

02

Does it replace vCenter, Kubernetes, or OpenShift consoles?

No, it does not replace them; rather, it adds a layer of operations, governance, and analysis on top of them. For Kubernetes and OpenShift environments, it provides read-only visibility.

03

Does Pilot Assistant execute operational actions?

No. It does not write SQL, delete VMs, restore snapshots, or restart Kubernetes objects. It solely interprets and explains the secure context.

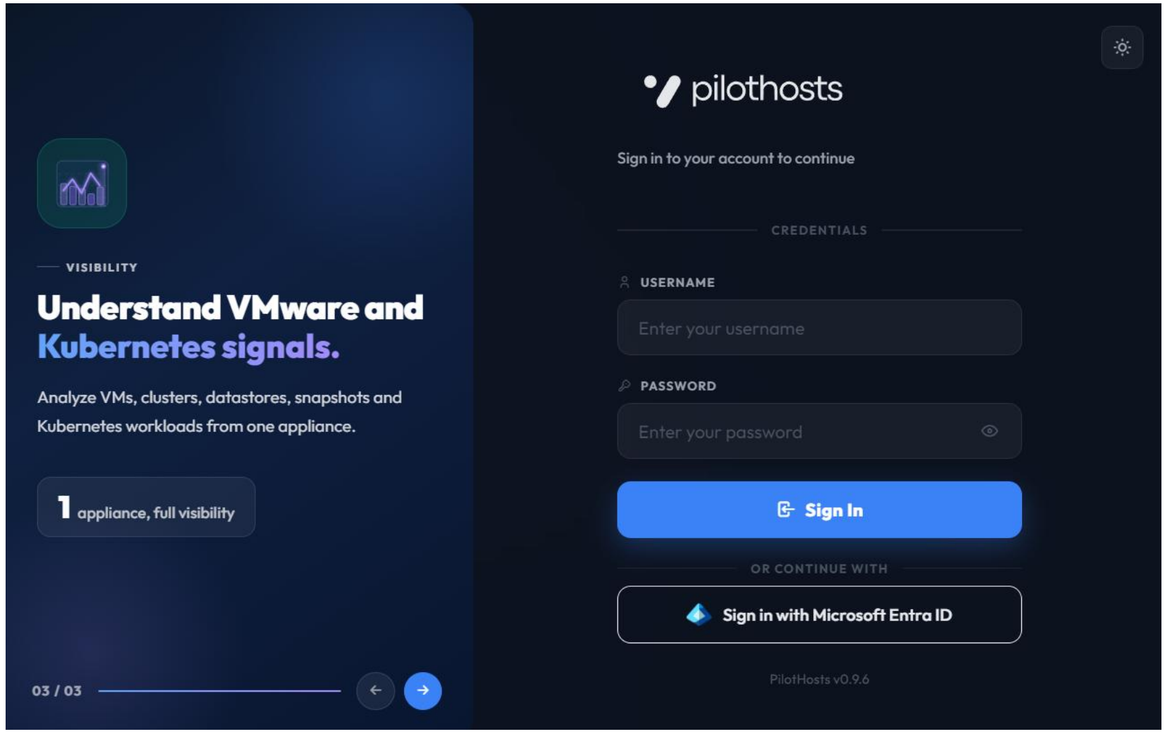
04

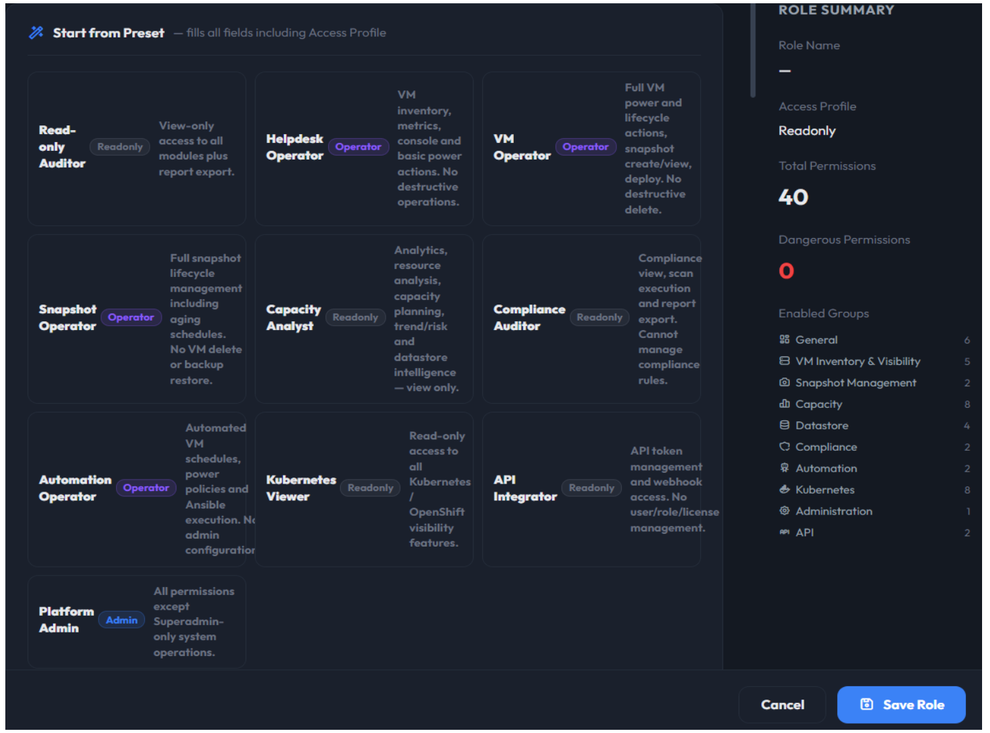
Do the LLM and PilotHosts transmit data externally?

No. They operate entirely locally. The system is internet-independent and does not transmit data to any external AI services. Offline/air-gapped deployments are fully supported, and online licensing is optional.

ENTERPRISE ACCESS

PilotHosts unifies enterprise access control and a localized infrastructure assistant within the same appliance layer. Through Microsoft Entra ID SSO, local user authentication, TOTP MFA, and granular RBAC, it strictly manages which areas users can view and the specific operations they are authorized to perform.

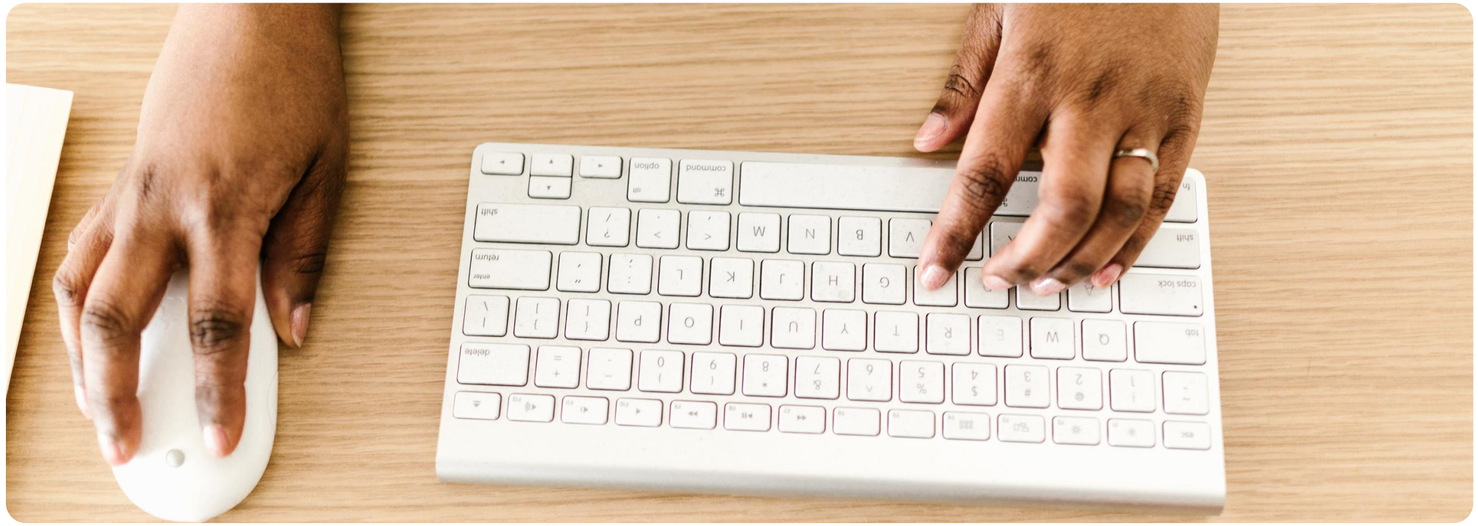




THANKS

PilotHosts consolidates visibility, governance, automation, and operational intelligence into a single platform across VMware, Kubernetes, and OpenShift environments.

Without replacing existing tools, it empowers teams to make faster decisions, identify risks early, and reduce their daily operational workload.



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