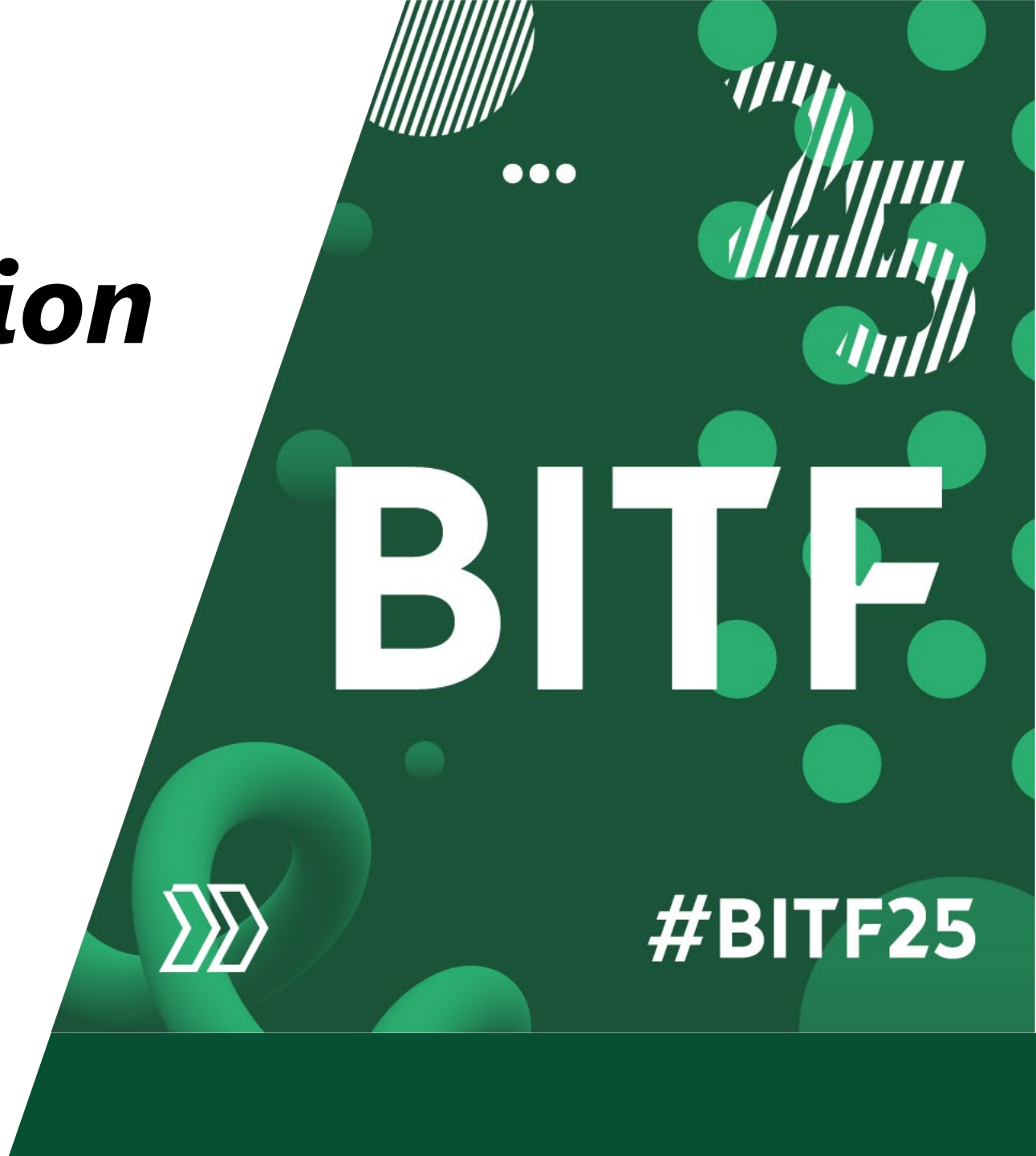
VCF: *The Foundation of Modern Cloud Infrastructure.*

Cédric Mégroz – *Team Leader Datacenter, Bechtle Suisse*

Ralf von Gunten – *Lead System Engineer, Vmware by Broadcom*



Bechtle IT Forum, Lausanne.

24.06.2025

VMware Cloud Foundation 9.0

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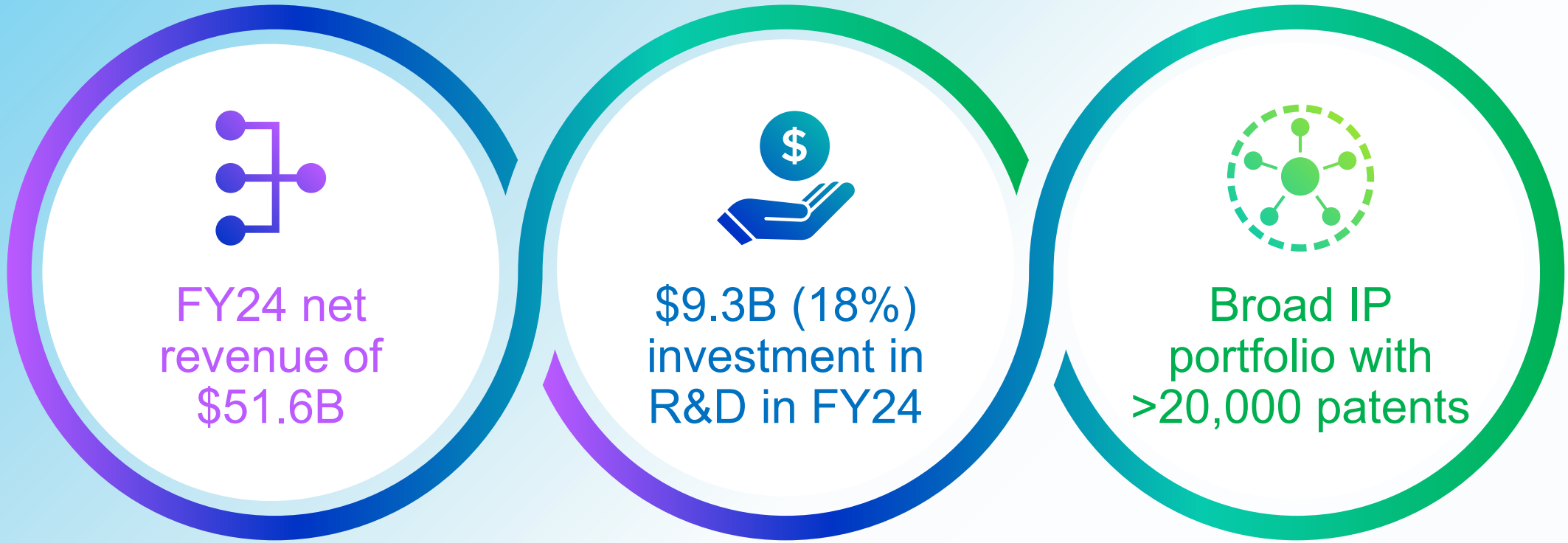
Our Continuous Investment in Innovation



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Private Cloud Outlook 2025: **The Cloud Reset**

Key Takeaways

Private Cloud is Now a Preferred Cloud Native Environment

Building new workloads in private cloud ranks as the top 3-year priority for most organizations (**53%**)

2/3 of organizations prefer private cloud or a mix of private and public cloud for cloud native applications

69% of business are **repatriating** workloads from public to private clouds, including cloud native applications

Tailwinds Driving Private Cloud Adoption: Security, GenAI, and Cost Predictability

Nearly all IT decision-makers (**94%**) report **wasted spending** in public cloud environments

Security and compliance lead the list for public cloud challenges, repatriation efforts, and implementation of GenAI

An overwhelming majority (**92%**) of organizations **trust private cloud security** and compliance

Enterprises are Investing in Platforms to Bust IT Silos

93% of businesses plan to run an **intentional mix** of both private and public clouds

Overcoming **IT silos** are the top challenge for private cloud adoption according to IT executives

4 out of 5 IT executives (**81%**) are determined to build IT around platforms vs silos

https://blogs.vmware.com/cloud-foundation/2025/05/29/private-cloud-outlook-2025-the-cloud-reset/

Data is based on a global survey conducted by Illuminas, a Radius Company, in partnership with Broadcom. Illuminas surveyed 1,800 senior IT decision-makers in March-April 2025 across 11 countries in North America, Europe, and Asia-Pacific.

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Private Cloud is Not a Location.
It's a way of working - an operating model.

Software-Defined Infrastructure

Compute, storage, network, security, data protection

Self-Service and Automation

Consumption-focused with tenant control and automation

Workload Agnostic

Modern, traditional, and AI workloads

Location Agnostic

On-prem, hyper-scaler, edge, sovereign/CSP

Security and Governance

Resiliency, cost control, automated LCM and policy enforcement

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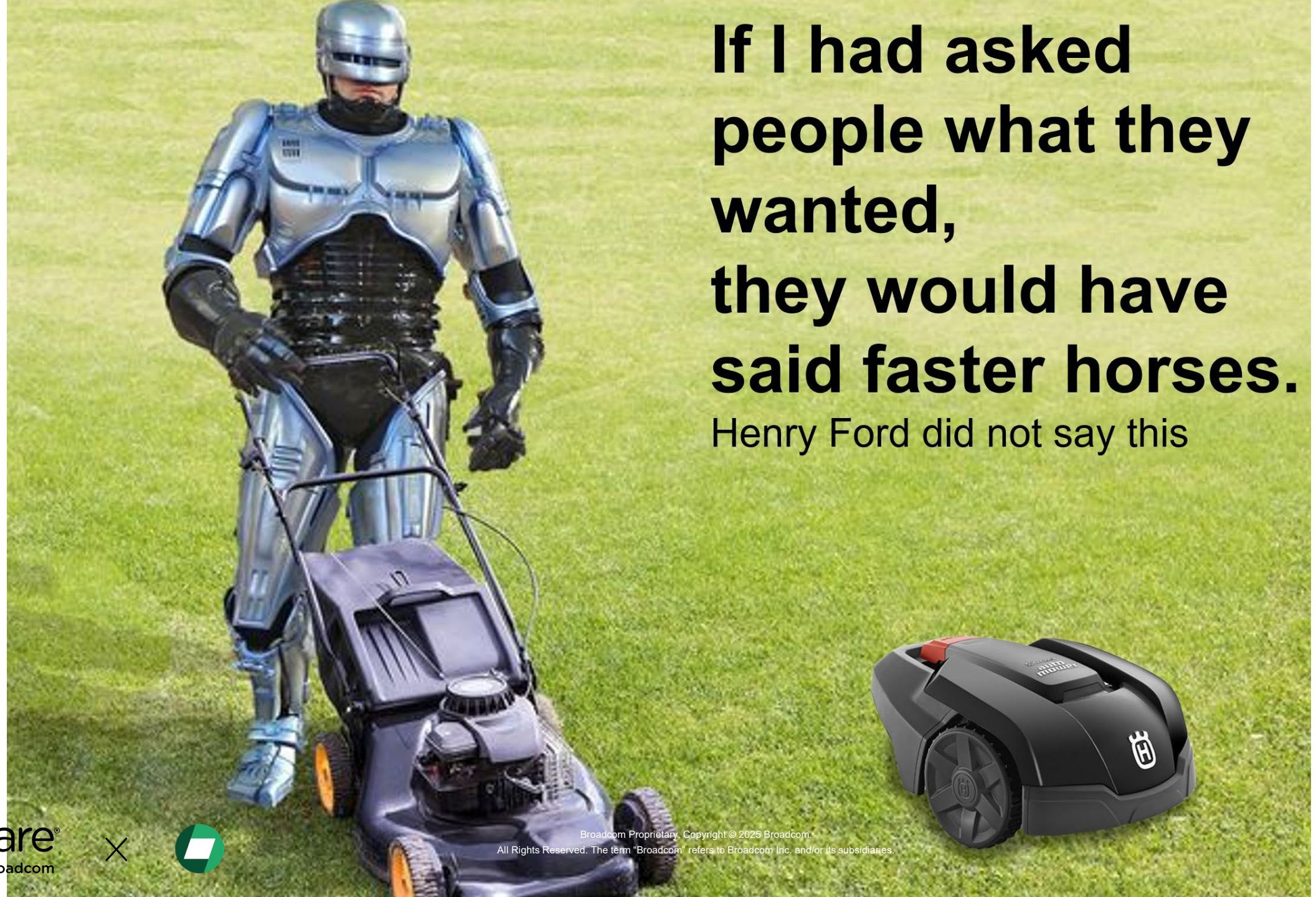

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VCF Drives Business Outcomes

Increase Revenue

- Respond to Changing Market Conditions
- Enable Faster Business Innovation
- Better Inform Decision Making

Reduce Risk

- Mitigate Issues Before They Escalate
- Ensure Compliance and Security
- Minimize Downtime and Recover Fast

Lower Costs

- Improve Infrastructure Resource Utilization
- Reduce Waste through Right-sizing, Cost Predictability
- Lower Operational Costs with Integrated Automation

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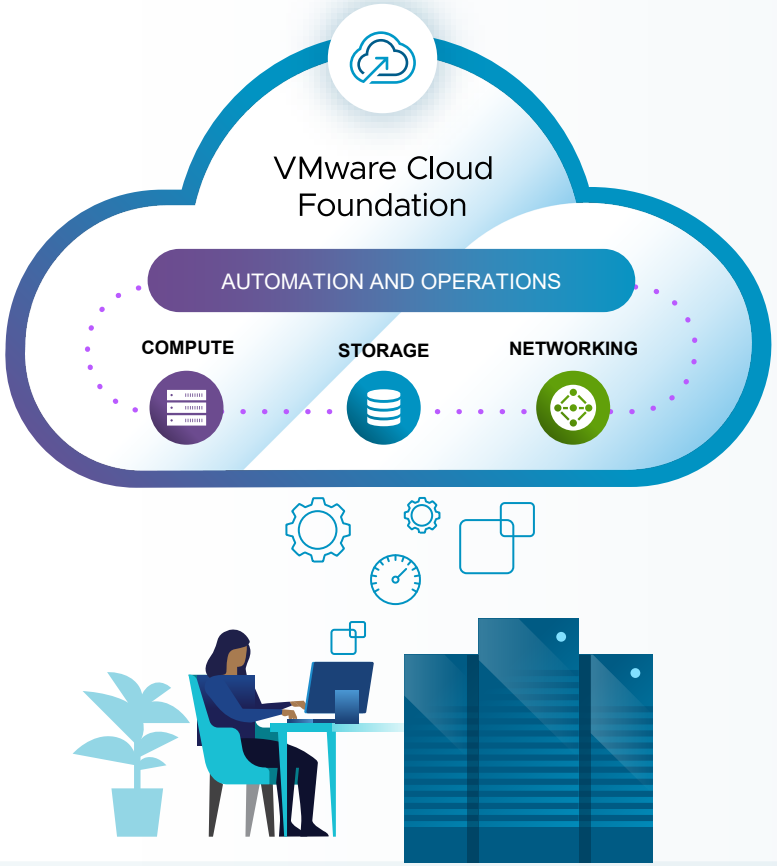
What Customers Can Achieve Today with VCF



61%

Faster to Deploy New Workloads [1]

66%

Quicker to Resolve Data Loss Incidents [1]

34%

Lower Infrastructure Costs than 3-tier [1]

40%

Cost Reduction when Compared to Public Cloud [2]

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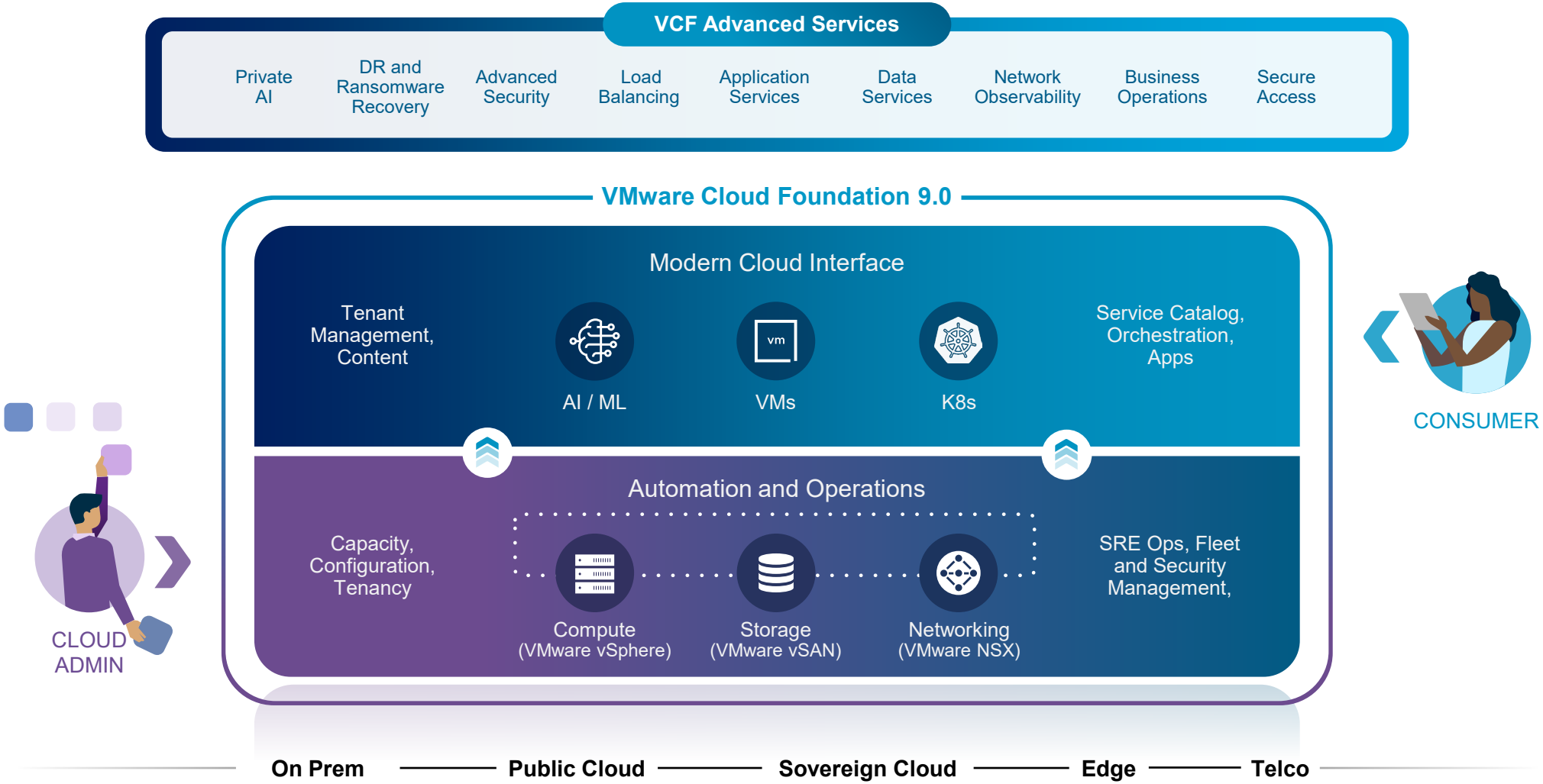
[1] IDC. Business Value of VMware Cloud Foundation [White Paper, sponsored by Broadcom]. August 2025. (External)
[2] VMware Cloud Economics Team. Results based on actual customer environment analysis.

Delivering the Modern Private Cloud



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The Fundamental Shift in VMware Cloud Foundation 9.0

One Interface

to private cloud operations

Building IT teams around platforms

81%

One Interface

for a cloud consumption experience

Use private cloud for mix of traditional and modern apps

84%

Run VMs and containers/K8s

for AI, modern, and traditional applications

Plan to run container and Kubernetes-based apps on private cloud

66%

Sovereign And Secure

as a platform

Trust their private cloud for security and compliance

92%

Cost Control

private cloud cost transparency

Cost Management & Optimization top priority

45%

Private Cloud Outlook 2025

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VCF 9.0 Innovation and Efficiency in the Core Platform

38%

Lower Memory and Server TCO[1]

Memory Tiering with NVMe

34%

Lower Storage TCO[1]

vSAN ESA with Global Dedupe[2]

3x

Switching Performance[1]

NSX Enhanced Data Path

~1%

Negligible Performance Overhead[3]

Compared to Bare Metal

0

Downtime

vMotion for AI

vGPU vMotion Optimization

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[1] Based on internal Broadcom estimates or test results, subject to change. March 2025.
[2] vSAN Global Dedupe requires RPQ. Contact account team for details
[3] MLPerf v5.0: 25% CPU used with full GPU performance. Compared to pre-9 vSphere, vSAN, NSX and VCF offerings

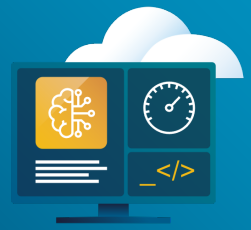
9 Common Use Cases for Private Cloud

BUSINESS INFRASTRUCTURE INITIATIVES

PRIMARY USE CASES

Modern Infrastructure

- Build and operate private cloud infrastructure on-premises or at the edge
- Implement automated infrastructure to deliver IaaS
- Extend data center to the cloud



Unified Cloud Experience

- Build, run and manage Kubernetes and other modern workloads
- Build, run and manage Private AI
- Run and manage traditional workloads (e.g. ERP, Database, VDI)

Secure and Resilient Platform

- Implement ransomware protection and recovery
- Implement disaster recovery
- Integrate security, compliance, and resilience

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VCF9.0: Key Features for a Modern, Unified, and Secure Platform

Modernize Your Infrastructure

- VMware Cloud Foundation Installer
- VCF Operations Console
- Easy Tenant Deployment and Management
- Enhanced Diagnostics Routines
- Performant Fleet Management
- Cost, Chargeback and Showback Management

Unified Cloud Experience

- VCF Automation Consumption Experience
- Simplified Cloud Networking and VPC Consumption
- Self-Service Catalog, IaC and VKS Cluster Management

Secure and Resilient

- Security Operations Dashboard
- Configuration Compliance and Monitoring
- Identity and Certificate Management

Core Platform Features

- Efficient, Native Recovery with vSAN-to-vSAN Data Protection with Deep Snapshots
- Enable Secure Workloads with Confidential Computing*
- Maximize Throughput with VCF Data Path Enhancements
- Optimize Cost and Performance with Advanced Memory Tiering for NVMe
- Improved Storage Efficiency with vSAN Global Dedup*

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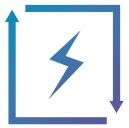
* Available in VCF 9.0 with RPQ

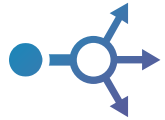
VCF ADVANCED SERVICES

Private AI



DR and Ransomware Recovery

Advanced Security



Load Balancing

Application Services

Data Services

Network Observability

Business Operations

Secure Access

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Enabling Customers with a Successful Private Cloud Implementation

Broadcom programs, services, and resources available to customers

400+ assessments

ASSESS

Private Cloud Maturity and Optimization

- Customized and value-based assessments
- Available from Broadcom and partners

ACCELERATE

Professional Services (from Broadcom and partners)

- Cloud maturity insights and targeted plan
- Expert assistance to architect, deploy, integrate, operationalize

Free digital learning

ACHIEVE

Learning Content and Certifications

- Digital learning content for VCF customers
- VCF certifications to upskill IT teams

Beyond technology, organizations must adapt **people**, **process** and **tools** in order to achieve success

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Overview of License Changes with VCF 9

What' New with VCF Licensing

- Transition from license keys to a digitally signed license file.
  - Single license file for all VCF components.
- Cloud Integration with VCF Business Services Console.
  - Manage entitlement, generate license codes and files, tenant & user mgmt.
- Centralized licensing from VCF Operations (per-VC licensing).
  - Assign licenses to deployed VCF environments.
- Support for connected and disconnected modes of operation.
- Easy to stay compliant with usage data updates every 180 days.
- Automated reactivation on renewal (for connected environments).

VCF 9 advanced add-on services continue to be licensed separately using license keys (e.g. Live Recovery, vDefend Firewall, Avi Load Balancer, Private AI Foundation)

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Optimisation licences VMware.

bechtle

- **But du Workshop :**
  - Le but est de vous accompagner dans la mise en place complète de la plateforme Broadcom VMware VCF selon le workshop Jump Start de VMware.
- **Thèmes abordés :**
  - Kick-off client - Définition du périmètre du pilote.
    Parties prenantes: Responsable infrastructure, équipe datacenter.
  - Présentation des licences et ses composants
  - Utilisation des outils existants ou déploiements d'outils selon votre infrastructure pour analyse de l'infrastructure.
  - Définition de la période représentative. (min 1 mois)
  - Phase de collection en vue d'optimisation des configurations VMs
  - Analyse de la collection et rendu de l'analyse
  - Mise en place d'une stratégie afin de diminuer le nombre de cores sous licences
- **Ce workshop inclut :**
  - Atelier sur votre site
  - Slide deck liés aux thématiques
  - Inventaire des points d'amélioration et design cibles

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VCF Jumpstart Workshop.

bechtle

- **But du Workshop :**
  - Le but est de vous accompagner dans la mise en place complète de la plateforme Broadcom VMware VCF selon le workshop Jump Start de VMware.

- **Thèmes abordés :**
  - Kick-off client - Définition du périmètre de l'infrastructure
  - Évaluation de la maturité Cloud avec ''Private Cloud Maturity and Optimization by VMware"
  - Échange sur les meilleures pratiques des capacités Cloud VCF
  - Mise en place d'une architecture cible selon environnement existant DAT
  - Planification de l'implémentation et de son adoption
  - Accompagnement au projet

- **Ce Workshop inclut :**
  - Préparation
  - 1 heure de séance de kick-off pour le cadrage du périmètre et le choix des participants
  - Un rapport lié à votre maturité Cloud et un DAT décrivant l'architecture et le plan de migration / adoption

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VMware Cloud Foundation Training Path

Basic

Level 100

[VCF Overview](#)
Get started with documentation and videos to learn about VCF.

[VCF Data Sheet](#)
This datasheet describes VCF and its key use cases.

[TCO White Paper](#)
Learn how to save with VCF in this total cost of ownership whitepaper.

[Total Economic Impact Study](#)
Forester's study on the total economic impact of VCF.

Intermediate

Level 200

[Hands-on Labs (HOLs)](#)
Self-paced online environments with guided exercises.

[VMware Resource Center](#)
Technical papers, demos, and more.

[Cloud Foundation YouTube Channel](#)
Demos, how-to guides, and more.

[Cloud Foundation Webinars](#)
Register for webinars and watch replays.

[Frequently Asked Questions](#)

Advanced

Level 300

VCF Experience Day
Unlock the power of VMware Cloud Foundation with our exclusive, expert-led hands-on workshops. These invite-only events offer a deep dive experience to understand VCF comprehensively.

VCF Holodeck
Experience VCF using a nested deployment on a single vSphere host. Holodeck automates the deployment and configuration of VCF for hands-on experience using self-paced lab modules.

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VMware Cloud Foundation Resources

Product Page	https://www.vmware.com/products/cloud-infrastructure/vmware-cloud-foundation
Documentation	https://techdocs.broadcom.com/us/en/vmware-cis/vcf.html
Blogs	https://blogs.vmware.com/cloud-foundation/
Hands-On Labs	https://www.vmware.com/resources/hands-on-labs
Holodeck	https://www.vmware.com/resources/resource-center?category[]=Hands-on%20Labs
Community	https://community.broadcom.com/vmware-cloud-foundation/home
FAQ	https://www.vmware.com/docs/vmw-cloud-foundation-faqs
YouTube	https://www.youtube.com/c/VMwareCloudFoundation
VCF Posters	https://www.vmware.com/info/vmware-cloud-foundation/resources#infographics

VMware Feature Request Portal

https://vcf.ideas.aha.io/

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Advance your career.
Connect with community.

EXPLORE

Las Vegas | August 25 – 28, 2025

vmware.com/explore

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EXPLORE on Tour

Paris, Maison de la Mutualité, Oct 15th

Merci!

Des questions ? Contactez-nous :
it-forum.ch@bechtle.com

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