vmware by Broadcom

VMware Cloud Foundation (VCF)

Color Map

- Operationalized
- Deployed
- In Progress
- Shelfware
- Alternative

Aria Suite Enterprise

Aria Suite Lifecycle Manager

- **Aria Automation** — Private Automation
- **Aria Operations** — Intelligent Operations Management
- **Aria Operations for Logs** — Intelligent Logging & Analytics

SDDC Manager — Datacenter Automation

vSphere Enterprise Plus

- **vCenter Standard** — Compute Manager
- **Tanzu Kubernetes Grid** — Developer Ready Infrastructure
- **ESXi** — Software-Defined Compute

NSX Enterprise Plus

- **NSX** — Software-Defined Networking

vSAN Enterprise

- **vSAN (1 TiB / core)** — Software-Defined Storage

VMware Data Services Manager

- Simplified Database Management
  Postgres, MySQL

HCX Enterprise

- **HCX** — Cross Cloud Mobility
- **Aria Operations for Networks** — Intelligent Network Visibility

Activation & Upgrade Service

Select Support and SRE

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VCF Add-Ons

VMware Cloud DR & Ransomeware

- **VMware Cloud Disaster Recovery** (VCDR) + (Includes Site Recovery Manager)
- **VMware Ransomeware Recovery** (RWR)

vSAN enterprise

- **vSAN** (per TiB)

VMware Site Recovery Manager

- **SRM**
  Site Protection & Disaster Recovery

VMware Firewall with Advanced Threat Protection

VMware Firewall	VMware Advanced Threat Protection
Distributed Firewall Gateway Firewall Security Intelligence Container Security	IDS/IPS Malware Prevention NTA/NDR

VMware Application Platform

- **Tanzu Application Platform** (TAP)
  DevSecOps
- **Tanzu Spring Runtime** (TSR)
  Spring, Java, Apache

VMware Tanzu Intelligence Services

- **Tanzu Guardrails Advanced** (TGA)
  Cloud Inventory & Search, Landing Zones Policy Templates, Config Drift management, Cloud Security Posture & Compliance, Entitlements Management, Auto-Remediation
- **Tanzu Guardrails Enterprise** (TGE)
  TGA + Host Config Management, Host Vulnerability Scanning
- **Tanzu Data Services** (TDS)
  Greenplum, RabbitMQ, Gemfire, Postgres, MySQL, Redis
- **Tanzu CloudHealth Enterprise** (TCE)
  Multi-Cloud Cost Control
- **Tanzu Operations for Apps** (TOA)
  Wavefront
- **Tanzu Service Mesh** (TSM)
  Multi-Cloud Multi-Runtime Connectivity
- **Tanzu Application Catalog** (TAC)
  OpenSource Supply Chain
- **Tanzu Insights** (TI)
  AI/ML-based Intelligence

VMware Live Recovery

- **Coming Soon**

VMware Load Balancer

- **VMware NSX Advanced Load Balancer** (AVI)

VMware Private AI Foundation

- **Coming Soon**

- **Tanzu Mission Control** (TMC)
  Multi-Cloud Multi-Cluster Kubernetes Management
- **Tanzu Spring Runtime** (TSR)
  Spring, Java, Apache

Support Services

- **Technical Adoption Manager** (TAM)
- **Support Account Manager** (SAM)
- **Dedicated Technical Support Engineer**
- **VMware Skyline**

VMware vSphere Foundation (VVF)

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vSphere Enterprise Plus

- **vCenter Standard**
  Compute Manager
- **Tanzu Kubernetes Grid**
  Developer Ready Infrastructure
- **ESXi**
  Software-Defined Compute

Aria Suite Standard

- **Aria Suite Lifecycle Manager**
- **Aria Operations**
  Intelligent Operations Management
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  Intelligent Logging & Analytics

vSAN Enterprise

- **vSAN (1 TiB / core)**
  Software-Defined Storage

Production Support

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Licensing

- Subscription
- Disconnected, optional connectivity in future
- Per core pricing
- 16 cores per CPU minimum
- 1-, 3- and 5-year terms (moving to Broadcom system May 2024. Broadcom system supports annual billing and co-term)
- Termination for Convenience (TFC)
- Includes Production Support
- vSAN Ent 100 GiB free will be included in next release

Licensing

- Subscription
- Disconnected, optional connectivity in future
- Per TiB pricing
- TiB minimum (0.5 TiB * number of physical cores): 8 TiB minimum for 16 cores
- 1-, 3- and 5-year terms (moving to Broadcom system May 2024. Broadcom system supports annual billing and co-term)
- Termination for Convenience (TFC)

VVF Add-Ons

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vSAN enterprise

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- **Tanzu CloudHealth Enterprise** (TCE)
  Multi-Cloud Cost Control
- **Tanzu Operations for Apps** (TOA)
  Wavefront

VMware vSphere Essentials & vSphere Standard

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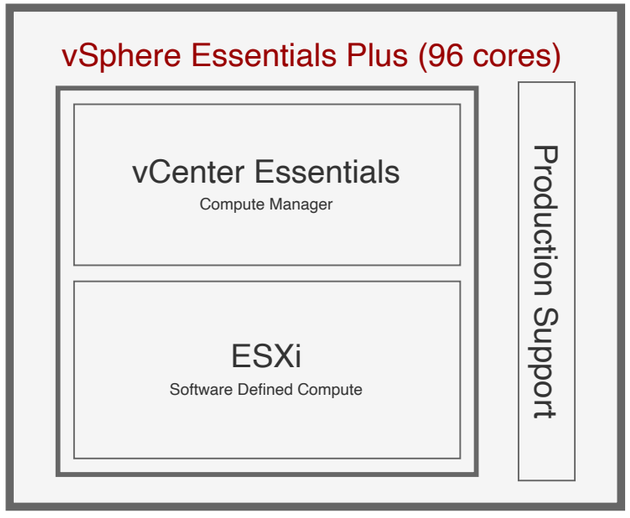

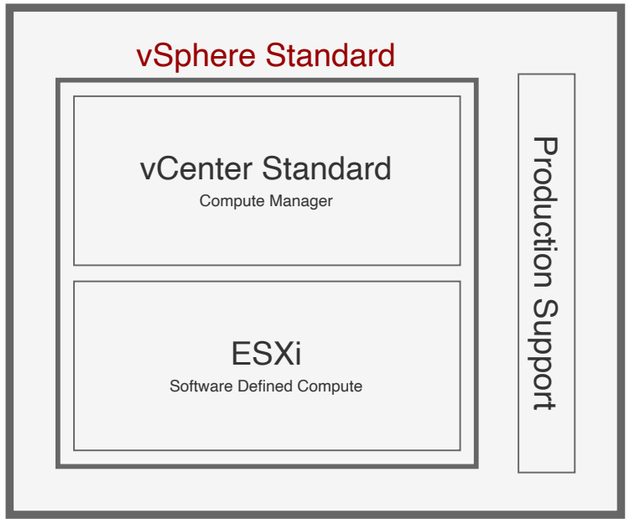

Licensing

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- Per core pricing
- 16 cores per CPU minimum
- 1-, 3- and 5-years (1-, 3- and 5-year SKU in Dec; single SKU May 2024 on Broadcom system. Broadcom system supports annual billing and co-term)
- Termination for Convenience (TFC)
- Includes Production Support

VMware Edge Compute Stack (ECS)

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Color Map

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VMware Edge Cloud Orchestrator (VECO)

Unified Management for SD-WAN and Edge Compute Stack
Hardware and Software Orchestration
Right-Sized Infrastructure, Pull-Based Orchestration, Network Programmability

Standard

- **Tanzu Mission Control (TMC)**
  Multi-Cloud Multi-Cluster
  Kubernetes Management
- **TKG Runtime**
  Developer Ready Infrastructure
- **ESXi Edge**
  Software Defined Compute

Production Support

Advanced

- **vSphere for vSAN Witness**
  2-Node configuration
- **vSAN Standard**
  Software Defined Storage
- **Tanzu Mission Control (TMC)**
  Multi-Cloud Multi-Cluster
  Kubernetes Management
- **TKG Runtime**
  Developer Ready Infrastructure
- **ESXi Edge**
  Software Defined Compute

Production Support

ECS Add-Ons

- **Edge Network Intelligence**
  AI for the Edge
- **vSAN Standard**
  Storage Policy-Based Management
  Rack Awareness
  Software Checksum
  All-Flash Hardware
  iSCSI Target
  QOS - IOPS Limit
  Cloud Native Storage Control Plane
  vSphere Container Storage Driver
- **vSAN Advanced**
  vSAN Standard +
  Deduplication & Compression
  Erasure Coding
  Stretched Cluster
- **vSAN Enterprise**
  vSAN Advanced +
  Data at Rest Encryption
  File Services
  HCI Mesh
- **SD-WAN**
  Cloud Gateways, Dynamic Multi-Path Optimization

Investment and Adoption Map - Aria Operations Manager

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Continuos Performance Optimization

- Scale-Out Operations Platform
- Performance Monitoring and Analytics
- VSAN Overview and Migration Dashboards
- Remote Collectors
- Custom VM Profiles
- OOTB and vRNI Based Discovery. Monitoring and Troubleshooting for Packaged Applications
- Monitoring of OS resources (CPU, Disk, Memory, Storage)
- Business and Operational Intent-based Automated and Scheduleable Workload Optimization
- Integration with Aria Automation for Initial and Ongoing Workload Placement
- Super Metrics, Metric Correlation, Relationship Mapping
- Built-In High Availability (Automated Failover of Platform Nodes)
- Automated Actions
- Physical OS Monitoring
- Visualization: OOTB Dashboards, Views, Reports, Heat Map, Performace Charts
- Advanced APIs: Resource/Data Addition, Report Generation and More
- Customizable Dashboards, Reports and Views
- Manual Workload Optimization
- Host-Based Placement
- Service Discovery and Application Dependency Mapping
- Native Ping Adapter
- OOTB Discovery, Monitoring and Troubleshooting for vSphere with Tanzu
- Continuous Availability
- Near Real-Time Monitoring (20 sec)

Efficient Capacity and Cost M Management

- Fine-Grained Cost Analytics for Reclamation, Planning and Public Cloud Cost Comparison
- Real-Time Predictive Capacity Management, Including Trending, Metering, Rightsizing, Optimization
- What-If Scenarios: • Hardware Procurement and Decommission • vSAN/HCI Planning Scenarios • Migration to VMware Cloud on AWS, AWS, Azure, Google, IBM, or VMware Cloud Provider™ Program Partners, and Custom Clouds
- VMware Cloud on AWS: Workload Balancing, Performance, Capacity/Cost Management, Planning, Troubleshooting, Configuration and Compliance
- VSAN: Workload Balancing, Performance, Capacity/Cost Management, Planning, Troubleshooting and Compliance
- What-If Scenarios for Adding/Removing VMs
- Predictive DRS and DRS Management
- Multiple What-If Stacked Scenarios
- Overall Data Center Costs

Intelligent Remediation

- SDDC and Cloud Pod Health Management Pack
- Single Sign-On
- Aria Automation Integration
- Multi-Cloud Monitoring via Native (AWS, Azure) and VMware Management Packs (Google Cloud Platform)
- ServiceNOW Integration
- Aria Orchestrator Management Pack
- Guided Remediation
- Aria Ops for Networks Integration
- VMWare Skyline Integration
- Tanzu CloudHealth Integration
- VMware and Third-Party Infrastructure Management Packs: Compute, Dell EMC Storage
- VMware Site Recovery Manager™ and vSphere Replication™ Management Packs
- VMware and Third-Party Database, Middleware and Application Management Packs
- Aria Ops for Logs Integration
- Application Performance Management Tool Integration (AppDynamics, Datadog, Dynatrace, New Relic)
- VMware and Third-Party Infrastructure Management Packs: Storage, Networking, Converged/Hyperconverged as well as Non-vSphere Hypervisors
- Kubernetes Management Pack: Monitoring for VMware Tanzu Kubernetes Grid™, OpenShift, Kubernetes on Amazon EC2, Azure, Google VMs and Others

Integrated Compliance

- FIPS 140-2 Compliance
- Automated Compliance Drift Remediation
- Custom Compliance Templates
- vSphere Security and Compliance, Including DISA, FISMA, ISO, CIS, PCI and HIPAA

Investment and Adoption Map - Aria Automation

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Components

- Cloud Assembly
- Service Broker
- Code Stream
- Aria Orchestrator
- Aria Automation SaltStack Config

Multi-Cloud Endpoints and Templates (Private, Public, Containers)

- Cloud Agnostic Blueprints
- AWS
- Azure
- Google
- Partner Clouds
- PKS, OpenShift 3.x, Vanilla K8S Cluster & Namespace Mgmt.
- Support for multi-vendor hypervisors (VM, Hyper-V, KVS, XEN)
- Catalog Content Sources
- vSphere w/K8s Mgmt

Governance and Compliance Policies

- User Authentication (AD/LDAP)
- User Group Authentication
- Approval Policies
- Service Blueprints (infrastructure, application, XaaS)
- Multiple level organizational grouping (tenant, business group, Projects)
- Provider resource grouping (service level tiering, location, resource type, etc.)
- Versioning of Content
- Service Entitlements by Role
- Compliance – control the provisioning workloads to specific providers or locations

Service Types

- Single and multi-tier machine provisioning
- Comprehensive Lifecycle Management
- Network and Security Configuration
- Storage Configuration
- XaaS (Anything as a Service)
- Application Authoring
- Automated discovery of resources (compute, network, storage, security)
- Onboarding discovered resources to bring under management (Brownfield capabilities)
- Automated Self Services (GUI Service Catalog)

Full Lifecycle Mgmt. / Software Config. Options / Service Authoring Blueprints

- Graphical Drag and Drop Design canvas
- Blueprint Component Dependency
- VM Cloning
- Configuration Management software (i.e. Puppet, Chef, Ansible, Saltstack, etc.)
- Platform Tools (PXE Boot, Windows WIM Imaging, Linux Kickstart/AutoYast)
- Ability to export/import service blueprints for version control or movement between deployment instances
- Day 2 Ops Actions (Entitlement Policies- diff types of Services)
- Native software configuration capability
- Desktop Integration: (Citrix XenDesktop, VMware Horizon View)
- Cloud Cost Transparency
- Manage Cloud Costs like a Business (Cost of infrastructure, Service rate calculations, etc.)
- Reclamation and Rightsizing: (Reclaim Lease Policy, & Extend Leases)

Developer

- Code Release Pipelines
- Pipeline as Code (YAML)
- Webhooks
- Smart Templates
- Code Release Dashboards
- API Interfaces

Extensibility

- Adapt Service Delivery Process (Event Based Triggering)
- IT Process Flow via vRealize Orchestrator
- Partner Plug-ins/ VM Marketplace
- Action Based Extensibility (ABX)

Investment and Adoption Map - Aria Operations for Logs

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Platform

- Dashboards
- Custom Dashboards
- Interactive Analytics
- vSphere Integration (vCenter/ESXi Collection)
- Aria Operations Integration
- Alerting
- Customer Experience Improvement Consent
- Machine Learning/Analytics
- Active Directory Integration
- Role Based Access Control (RBAC)
- Query API
- K8s Log Collection, Querying and Analytics
- Agents

Advanced Features

- Clustering
- High Availability
- Event Forwarding
- Archiving
- Customizable Data Retention

Content Packs

- Content Pack Marketplace
- VMWare Content Packs
- Import Customer Content Packs
- Third-Party Content Packs

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Investment and Adoption Map - VSAN

Color Map

- Operationalized
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- Shelfware
- Alternative

Platform

- Storage policy-based management
- All-flash hardware
- iSCSI target service
- Quality of service (QoS) IOPS limit
- RAID-5/6 erasure coding
- Stretched cluster
- Deduplication and compression

Advanced Features

- File Services
- VMWare HCI Mesh (cross-cluster capacity sharing)
- Data Persistence platform for modern stateful services
- Data-at-rest and data-in-transit encryption

Integration

- Aria Operations Integration
- Integration with Tanzu (CNS, CSI)

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