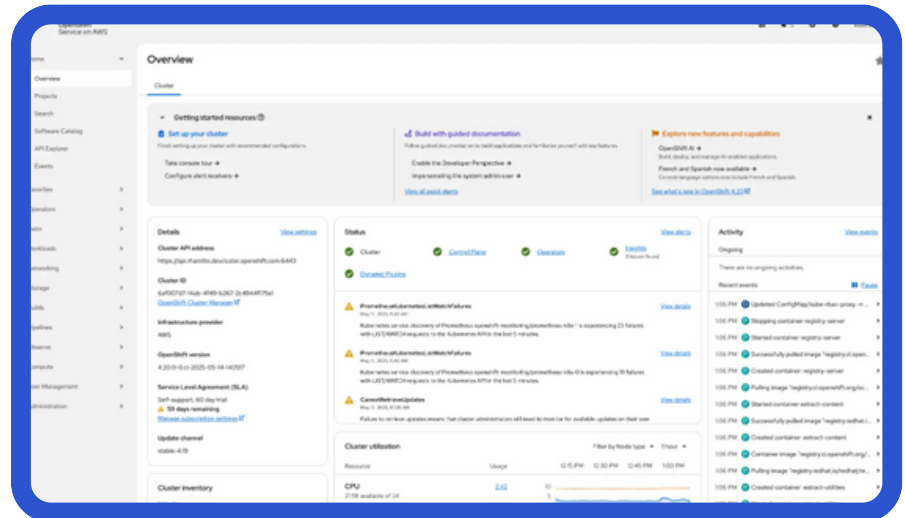




Virtual Migration Assessment (VMA)

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De-risk your departure from VMware. The Virtualization Migration Assessment (VMA) is a strategic discovery engagement designed to help organizations evaluate the feasibility, effort, and value of migrating virtual machine workloads to Red Hat OpenShift Virtualization. Whether via a rapid 4-Hour Express Discovery or a Full Enterprise Assessment, Turtini and Red Hat provide the roadmap to modernize your estate, divest from Broadcom technologies, and unify containers and VMs on a single platform.

Strategic Clarity: Identify cost reduction opportunities and align migration with multi-hybrid cloud strategies.
Rapid Feasibility: Quickly determine readiness for a full-scale migration pilot or Proof of Technology (PoT).
Actionable Roadmaps: Receive a high-level design (HLD) and a phased migration timeline tailored to your deadlines.

Virtual Migration Assessment (VMA) Enablement Activity Card



Turtini is a mission partner
focused on successful
technology implementations

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Components

Virtual Migration Assessment (VMA)



What constitutes a VMA? The assessment combines data collection, stakeholder interviews, and technical analysis to produce a comprehensive migration strategy.

- **Workload Complexity Analysis:** A granular categorization of your VM estate into "Easy" (Modern Linux), "Medium" (Windows), "Hard" (Legacy/Large Disks), and "White Glove" (Critical Databases) to accurately estimate effort.
- **Infrastructure Snapshot:** A detailed review of current hardware, storage protocols (SAN/CSI compatibility), and network topology to ensure target environment readiness.
- **Migration Toolkit for Virtualization (MTV) Planning:** Assessment of tool compatibility for "Warm" (incremental sync) vs. "Cold" migrations and automated driver swaps (VirtIO).
- **High-Level Design (HLD):** A proposed architecture based on Red Hat's Hub-and-Spoke model, leveraging Advanced Cluster Management (ACM) and Ansible Automation Platform (AAP).



Broadcom/VMware Divestment:

- **Use:** Validate the path to exit VMware licensing before renewal deadlines.
- **Benefit:** Mitigate financial risk due to rising costs and uncertain licensing models.

Infrastructure Modernization:

- **Use:** Assess the ability to repurpose existing ESXi hardware to build new OpenShift clusters in a "rolling capacity" approach.
- **Benefit:** Maximize hardware ROI and reduce e-waste by converting legacy hosts to modern bare-metal nodes.

Unified Operations (GitOps):

- **Use:** Design a management plane where VMs are managed as code alongside containers.
- **Benefit:** Streamline Day 2 operations, improve auditability, and reduce manual intervention using Ansible and GitOps.

Database & Critical Workload Migration:

- **Use:** Identify "White Glove" workloads (e.g., Oracle RAC, large SQL clusters) that require specialized migration handling.
- **Benefit:** Prevent downtime and performance degradation for mission-critical systems during the transition.



Deliverables & Outputs

Virtual Migration Assessment (VMA)



Migration Timeline Estimate:

- **What:** A calculated path to completion, factoring in parallel execution, maintenance windows, and estimated velocity (e.g., VMs migrated per week)
- **Why:** To ensure the organization meets critical hard deadlines for VMware license expiration and divestment , while setting realistic expectations for the necessary staffing and resource commitment.

High-Level Categorization Map:

- **What:** A visual breakdown of the VM estate by OS distribution, disk size, and resource consumption, categorizing workloads into "Easy," "Medium," "Hard," and "White Glove".
- **Why:** To prevent "migration stalls" by identifying complex legacy systems early and to prioritize "low-hanging fruit" for quick wins, ensuring a smooth flow during the mass migration phase.

Target Architecture Design:

- **What:** A blueprint for the OpenShift "Landing Zone" based on the Hub-and-Spoke model, detailing storage (CSI) integration, network topology, and cluster sizing.
- **Why:** To establish a scalable foundation that supports centralized management via Advanced Cluster Management (ACM) and enables a "zero-touch," code-oriented operation model using GitOps for future-proofing.

Pilot Wave Candidates:

- **What:** Identification of 5–10 specific non-production VMs that are representative of the broader estate to validate tooling and processes in the first phase.
- **Why:** To "prove the path" by testing critical elements like drivers and automation on safe workloads , significantly reducing failure rates and risk before scaling up to production systems.

Risk Profile:

- **What:** Detailed analysis of assumptions, constraints (e.g., change freezes, hardware repurposing logistics), and technical risks.
- **Why:** To proactively address hurdles—such as storage capacity issues caused by thick provisioning during migration or downtime requirements for "White Glove" databases —preventing costly delays during execution.



Advantages & Resources

Virtual Migration Assessment (VMA)



4-Hour Express VMA: A lightweight, rapid discovery session for immediate feasibility checks.

Full Enterprise VMA: A comprehensive multi-day engagement for deep-dive inventory analysis and detailed design.

Migration Factory: The scaled execution model that follows the VMA, capable of migrating hundreds of VMs per week.

- **For Decision-Makers:** Get a definitive "Go/No-Go" analysis, cost-benefit clarity, and a realistic timeline to present to leadership.
- **For Operations Teams:** Understand the training gap. The VMA identifies specific skill needs (e.g., DO316, DO432) to transition VMware admins to OpenShift administrators..
- **For Architects:** Validate that existing storage arrays and network fabrics support the necessary CSI drivers and overlay networks required for OpenShift Virtualization.



Transform your IT operations

Visit turtini.com/vma for detailed documentation and resources.
Request a personalized Virtual Migration Assessment.
Message us at turtini.com/message to schedule your VMA today.