Virtualization Migration

Technical Discovery & Risk Assessment

This document provides a high-level discovery of an existing VMware estate from a product/component perspective. The purpose of this exercise is to identify the complexity and risk of a migration prior to entering a Virtualization Migration Assessment (VMA) to better resource the VMA for the best outcome. This exercise in no way replaces the rigor of the VMA and should only take a few hours of effort between Red Hat and the customer.

Customer Details	
Customer Name	
Customer Point of Contact Name	
Customer Point of Contact Phone	
Customer Point of Contact Email	
Date of Initial Information Collection	

Current State Environment - Sizing

Please provide details about the current platform sizing. **This is only an approximation as a more detailed analysis will happen during the VMA.**

Platform Sizing	
How many VMware clusters do you have running?	
How many physical locations?	
How many hypervisors?	
How many hypervisors per cluster?	
Are there any variations in hardware configurations across hypervisors within the same cluster(s)?	
How many VMs are you running in your cluster(s)?	
How many total CPU sockets are occupied on those servers?	
How many total CPU Cores (physical!) do those CPUs have?	
How many sockets per hypervisor?	
What is the total number of virtual CPUs allocated to these VMs?	
What is the total RAM allocated to these VMs? (Size MiB)	

Current State Environment - Operating Systems

Please provide details about the current Operating Systems environment. **This is only an approximation as a more detailed analysis will happen during the VMA.**

Operating Systems	
What's the approximate percentage of VMs running WINDOWS ?	
What's the approximate percentage of VMs running RHEL?	
What's the approximate percentage of VMs running Debian/Ubuntu?	
What's the approximate percentage of VMs running OTHER?	

Current State Environment - Products

Please provide detail about the current set of products in use, including versions

Question	Components / Features	Answer
VMware Products Used? List products owned	vSphere edition(s)/version	
	NSX	
	Aria Suite Enterprise (bundle) • Aria Automation • Aria Operations • Aria Operations for Logs - Aria Automation Orchestrator and Aria Automation - SaltStack / Aria Automation Config	
	SRM	
Incumbent Storage Vendor? (Brand, product type, version, protocol, known storage array limitations – like number of LUNs)		
Incumbent Backup and Disaster Recovery Vendor(s)? (Brand, product type, version, do they support backup and DR of VMs specifically?)		
Incumbent 3rd party network vendor? (Routers, switches, load balancers, firewalls, DNS etc)		
Target Hardware for Installation?		

(Make, model)	
Current non-OS Workloads (e.g. SAP, VDI, Oracle DB, etc)	

Current State Environment - Features and Use Cases

Please provide details about the component used, as well as the use cases.

Question	Features	Answer
VMware Features Used? List features used and the use case for each one of them	**Storage**	
	Storage vMotion	
	Storage DRS	
	RDM (Raw Device Map)	
	Storage IO control (SIOC)	
	Networking	
	Routing	
	VPN	
	Port mirroring	
	Network IO Control (NIOC)	
	Reliability and Flexibility	
	Fault Tolerance	
	DRS (Dynamic Resource Scheduling)	
	CPU Overcommit	
	Memory Overcommit	
	Backup, DR and Protection	
	VM Snapshot	

Plans to Migrate

Question	Answer
Timeline to deploy VMware alternative into production?	
Financial Budget?	

Would you allocate people resources to work with Red Hat to advise on evaluation & implementation? (Are those resources cross functional – networking, platform, etc)	
Are you open to a solution that requires the addition of a 3rd party Software Defined Storage vendor?	
Are you using OpenShift today?	
Are you using Ansible today for datacenter automation? (Windows/Linux configuration mgmt, network automation, capacity planning, SNOW integrations etc)	
Are you currently seeking to modernize (refactor) applications?	