# 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 |  |

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## 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) |  |

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## 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? |  |

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## 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) | |  |

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## 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?** |  |