



Onboarding Veeam Recovery Orchestrator



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Veeam Data Platform Packages

Platform Editions	Backup and Recovery	Monitoring and Analytics	Recovery Orchestration	Ransomware Warranty (add-on)
Premium	●	●	●	●
Advanced	●	●		
Foundation	●			
Supporting product components	Veeam Backup & Replication	Veeam ONE	Veeam Recovery Orchestrator	

Note: As of V7 a single license file is required to properly license the product.

Veeam Recovery Orchestrator can be purchased separately and merged with existing licensing.

Why Veeam...

Proven recovery orchestration

Be compliant and ready
for disaster with
orchestrated recovery

Automate test to highlight
potential impacts to your
recovery



**Automated
testing**

Take the headache out
of documentation and
compliance



**Automated
documentation**

Recover faster
from any disaster



**One-click
recovery**

Supported Recovery Methods

Recovery Methods

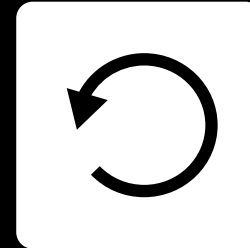
VM Backups

Replication

Continuous Data Protection

Storage Snapshots

Agent Backups



Veeam Orchestrator Server Components



Veeam Orchestrator Server



Veeam Orchestrator Server
Service and Web IU



Veeam Backup & Replication
Server (embedded)



Veeam ONE Server
(embedded)



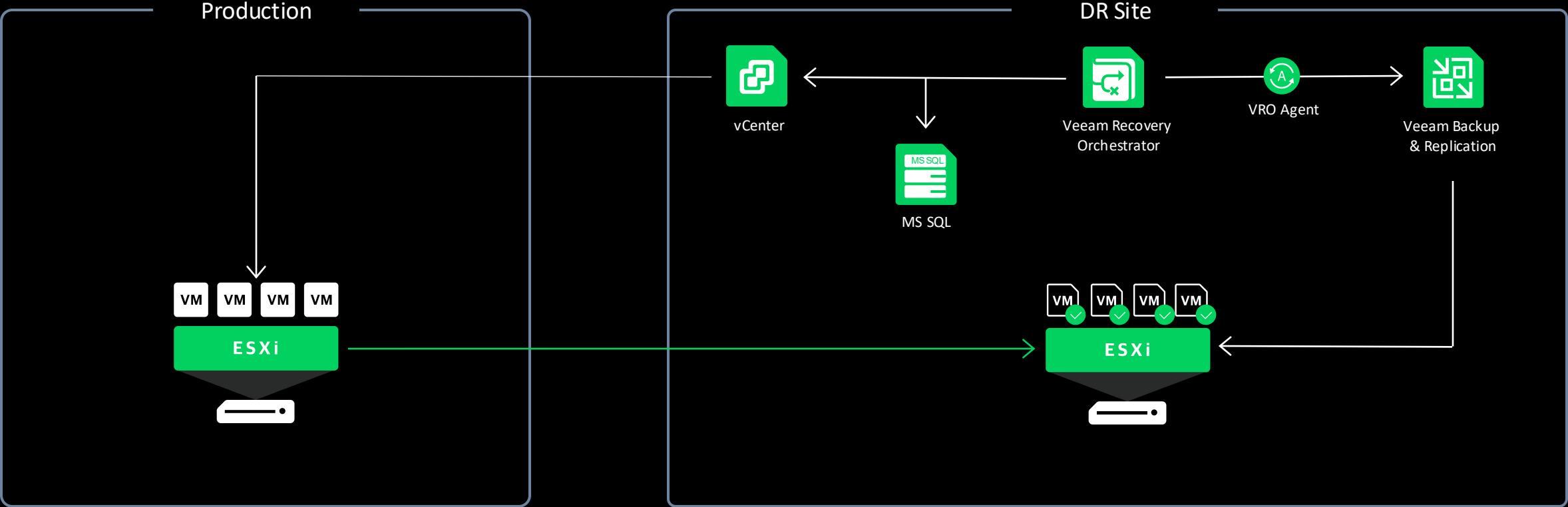
MS SQL Database

Sizing Veeam Recovery Orchestrator

Number of Protected Systems*	1–1500	1500–5000	5000–10000	10000–20000+
CPU	4 vCPUs – 8 vCPUs for the Orchestrator server 4 vCPUs – 8 vCPUs for the Microsoft SQL Server	10 vCPUs for the Orchestrator server 10 vCPUs for the Microsoft SQL Server	12 vCPUs for the Orchestrator server 12 vCPUs for the Microsoft SQL Server	>20 vCPUs for the Orchestrator server >20 vCPUs for the Microsoft SQL Server
Memory	12 GB for the Orchestrator server 8 GB for the Microsoft SQL Server	40 GB for the Orchestrator server 40 GB for the Microsoft SQL Server	70 GB for the Orchestrator server 70 GB for the Microsoft SQL Server	>70 GB for the Orchestrator server >70 GB for the Microsoft SQL Server
SQL Server	N/A	N/A	Disk IOPS 1000 (minimum)	Disk IOPS 2000 (minimum)
Hard Disk Space	30 GB for product installation and sufficient disk space for the Veeam ONE database (if installed locally). Use the Veeam ONE Database Calculator to size application data. 20 GB for the Microsoft SQL Server. By default, the Microsoft SQL Server database grows as follows: <ul style="list-style-type: none"> •~1Mb per one Readiness Check Report or Plan Execution Report for a plan that includes 10 machines. •~10Mb per one Readiness Check Report or Plan Execution Report for a plan that includes 100 machines. •~100Mb per one Readiness Check Report or Plan Execution Report for a plan that includes 1000 machines. Note: SSD disks are recommended to use with the Microsoft SQL Server.			

https://helpcenter.veeam.com/docs/vro/userguide/system_requirements.html?ver=70#hardware-recommendations

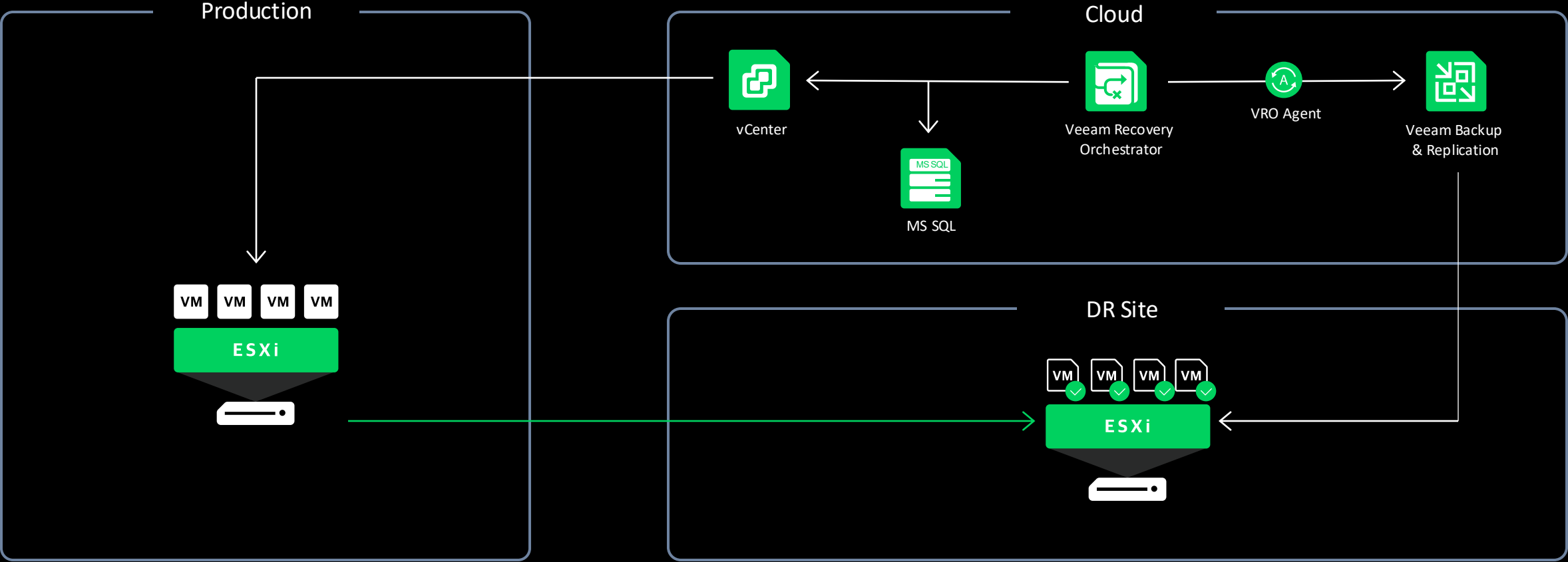
Server Placement Best Practices — DR



→ Data Recovery
→ Management

All management components will need to be online for Orchestration.

Server Placement Best Practices — Cloud



All management components will need to be online for Orchestration.

Additional Operation Costs*

→ Data Recovery
→ Management

Supported Recovery Platforms



VMware

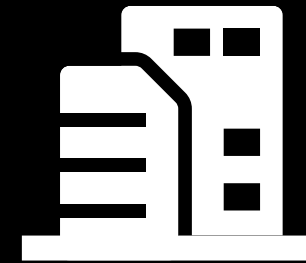


Azure

Important Orchestrator Features



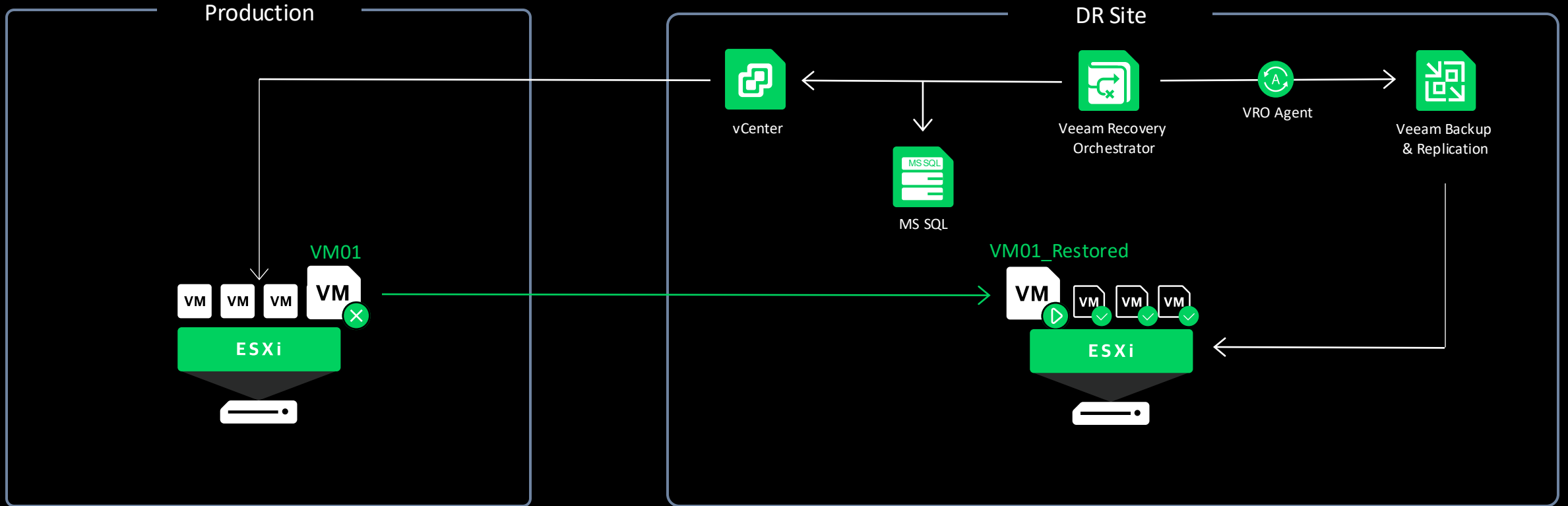
Recovery Plans



Recovery Locations

Note: Recovery Locations are not required for Replication Failover

Recovery Scenario – Backup Copy or Replication

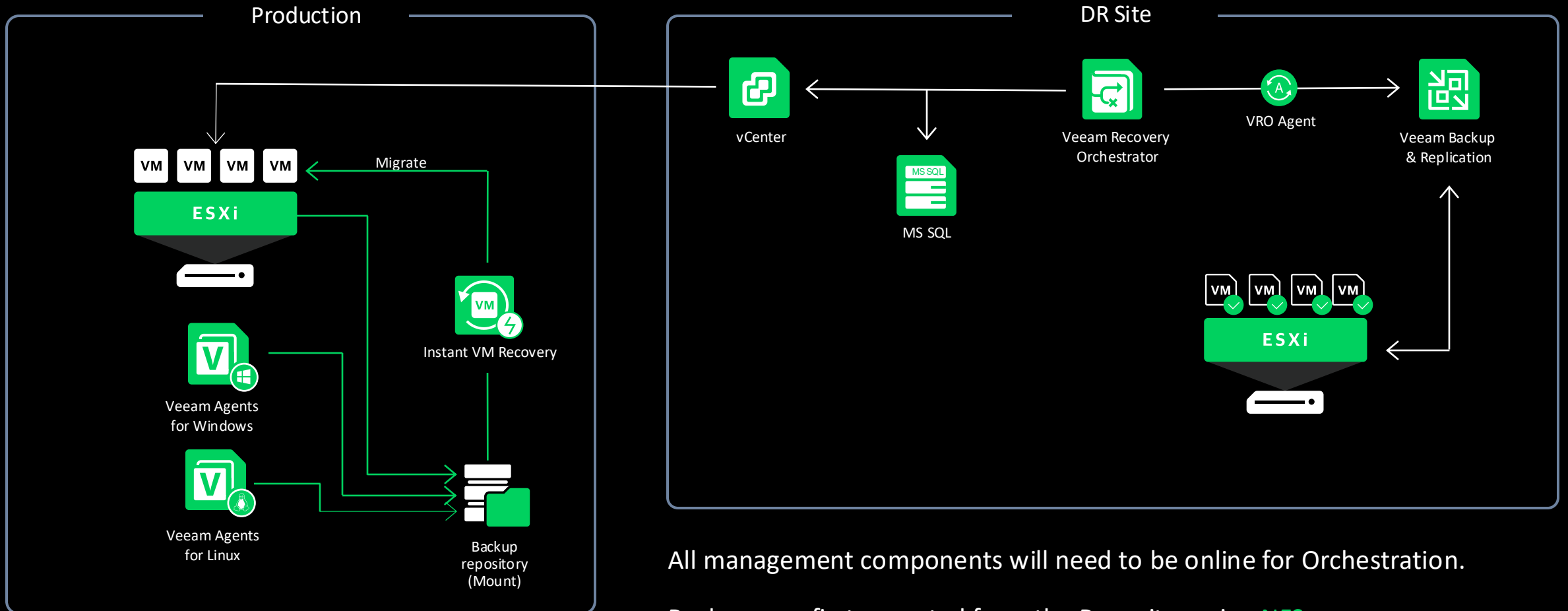


All management components will need to be online for Orchestration.

→ Data Recovery
→ Management

DEMO

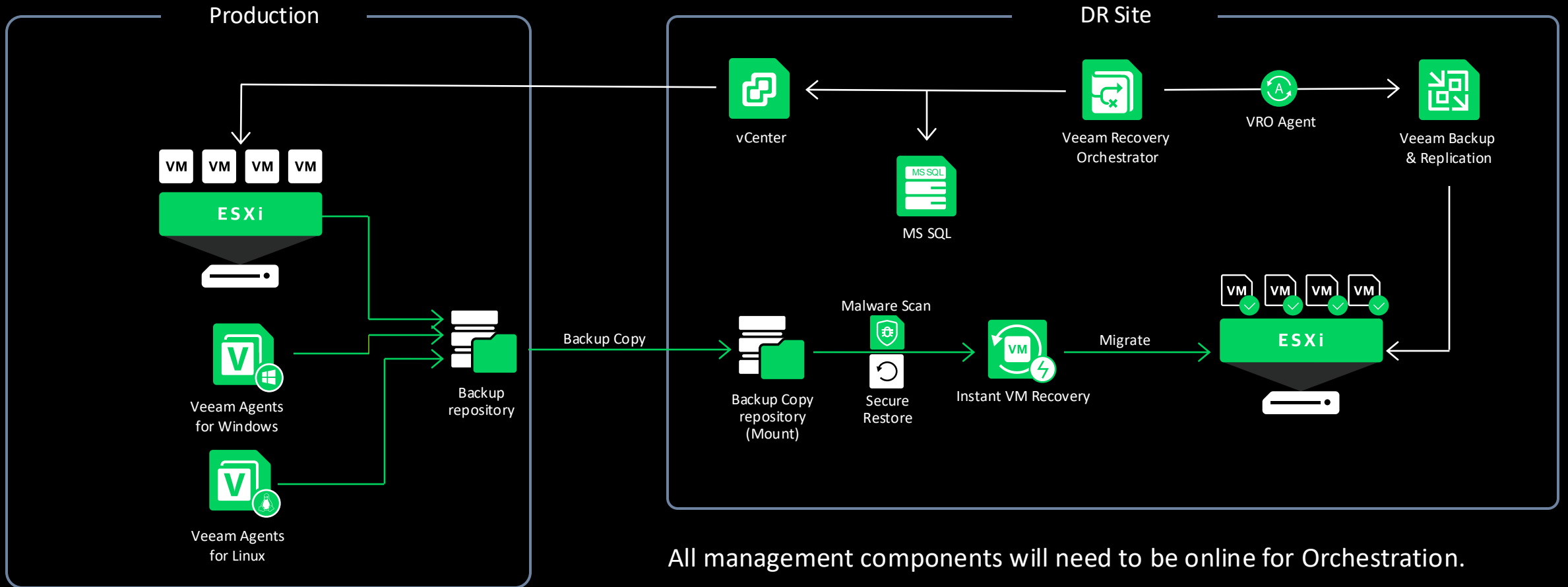
Orchestrating Restore from Backups



All management components will need to be online for Orchestration.

Backups are first mounted from the Repository via **vNFS**, once the VM is online, we migrate it to the Production hypervisor storage.

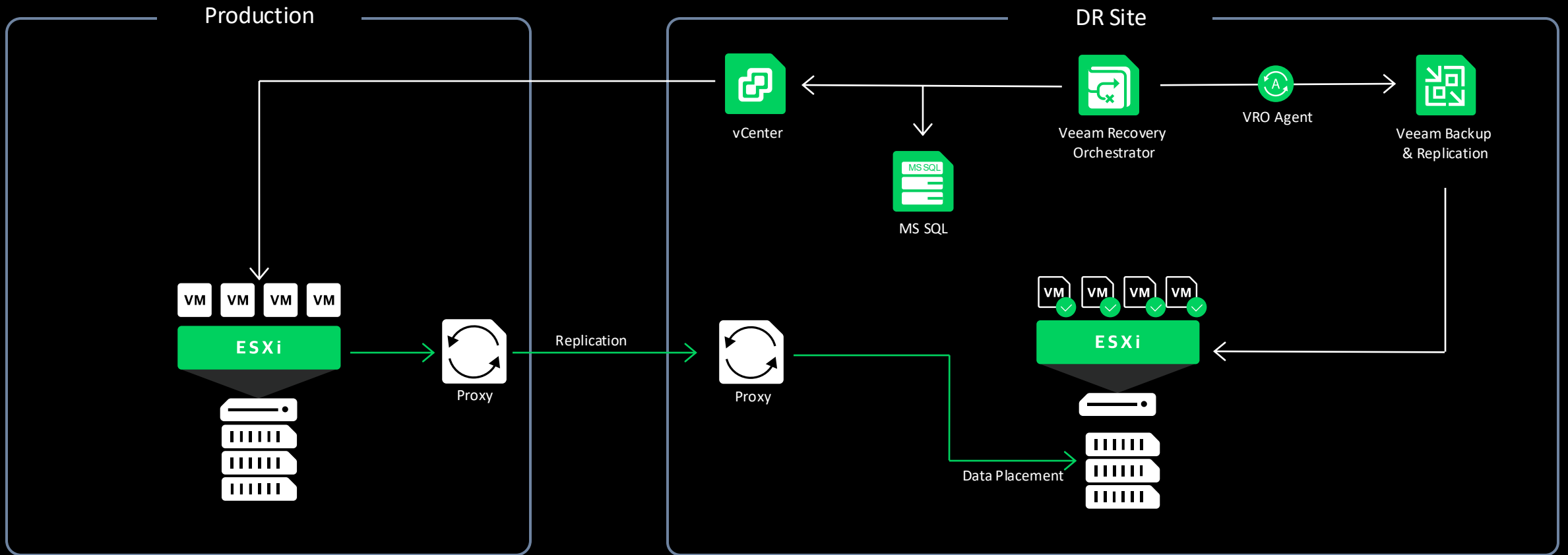
Orchestrating Restore from Backup Copies to DR



All management components will need to be online for Orchestration.

Backup Copies are first mounted from the Repository via **vNFS**, once the VM is online, we migrate it to the DR hypervisor storage.

Orchestrating Restore from Replicas

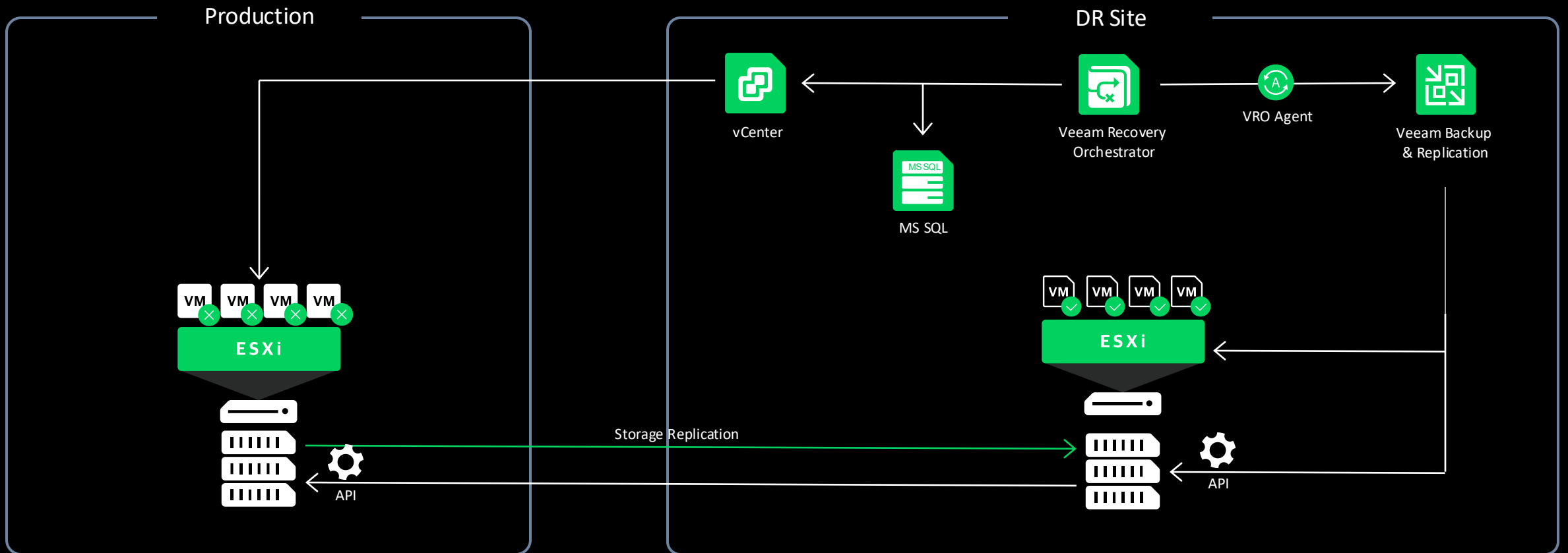


This is the only case when Veeam Backup & Replication can be offline for recovery of workloads. (This does not apply to CDP because of VAIO filters)

→ Data Movement

→ Management

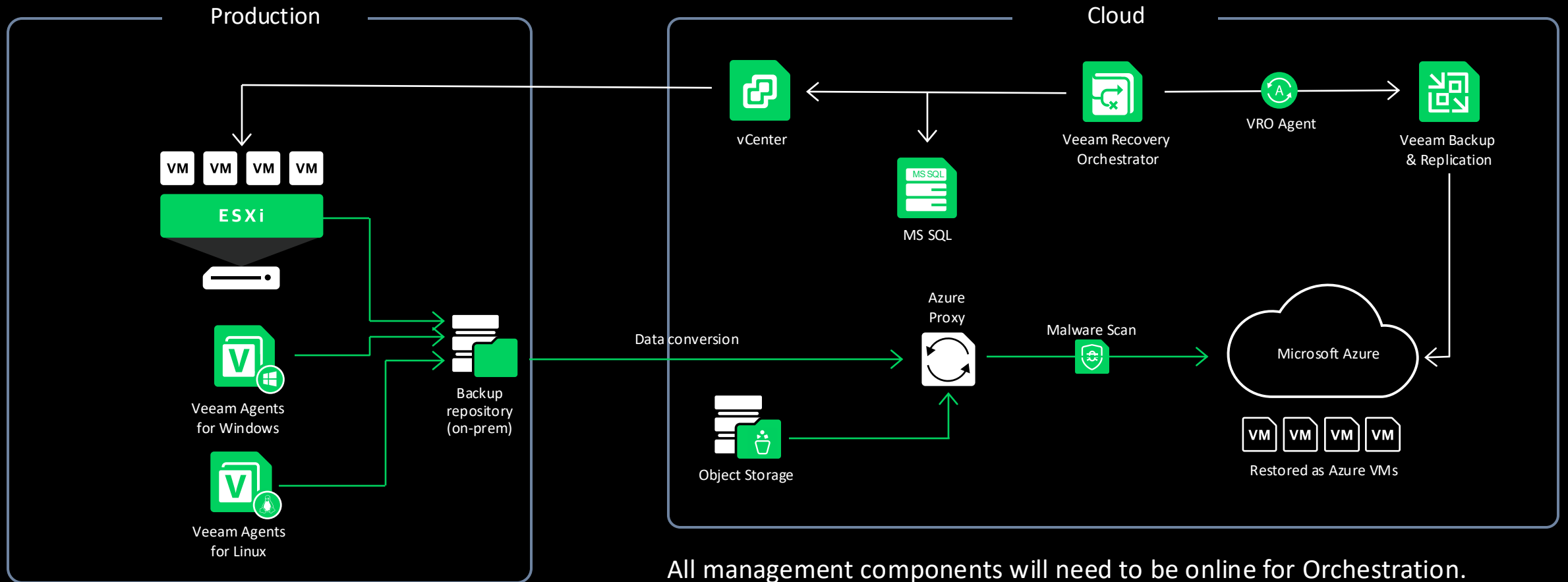
Orchestrating Storage and VM Failover



With **HPE** and **NetApp** storage integrations we can replicate and recover array volumes with **Veeam Recovery Orchestrator**. During a failure we bring up replicated volumes back to vSphere allowing us to power on the underlying Virtual Machines.

- Data Movement
- Management

Orchestrating Restore to Microsoft Azure

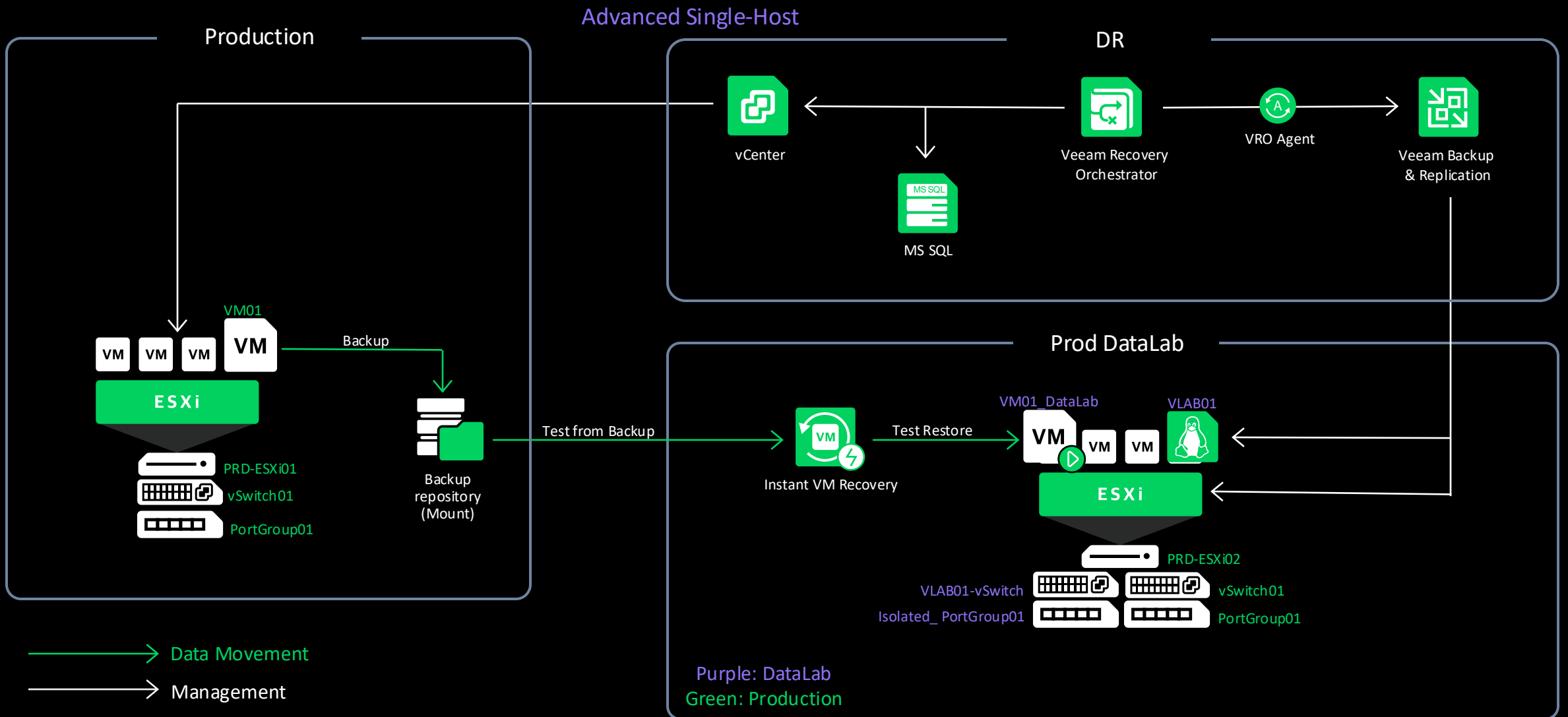


All management components will need to be online for Orchestration.

Data is retrieved from the **On-prem** or **Object** repository to be converted to a VHD format to be placed into the Azure Storage account and powered on.

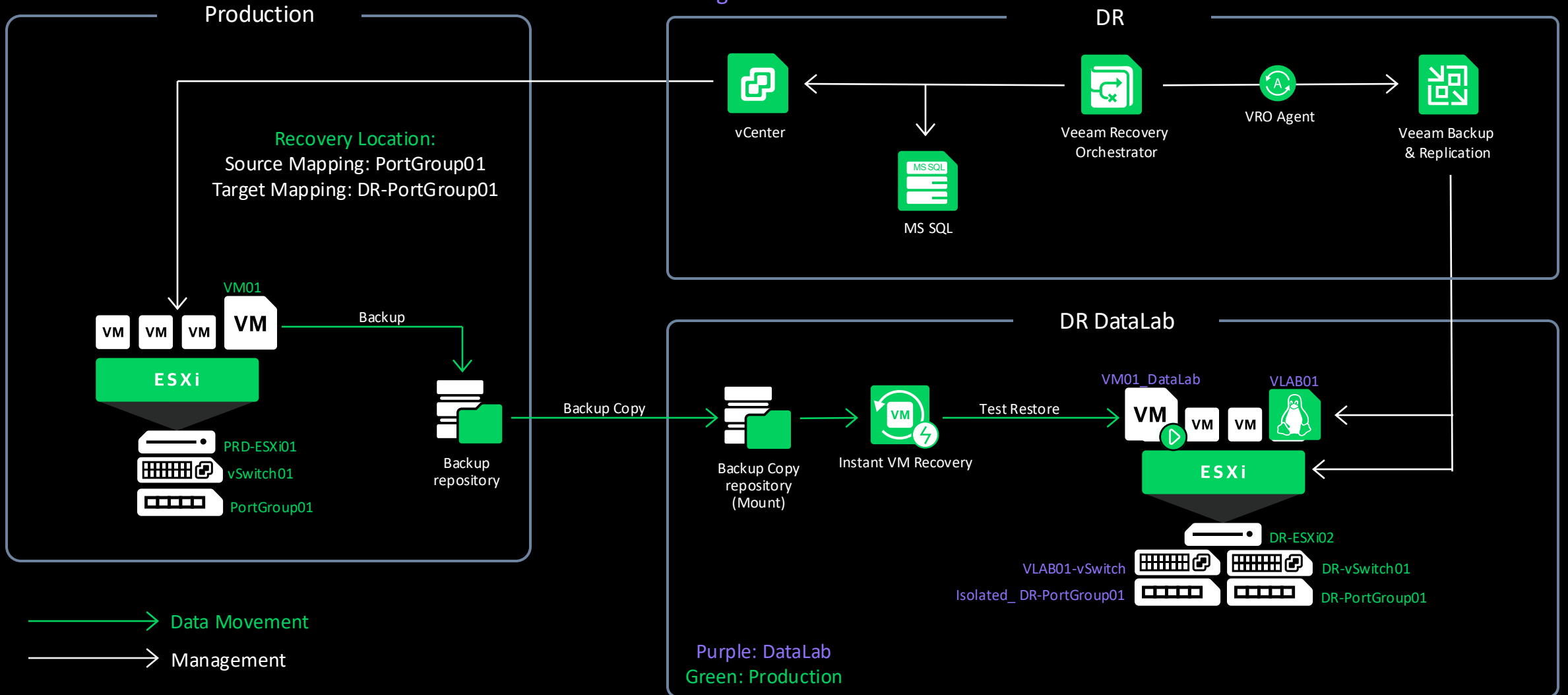
→ Data Movement
→ Management

DataLabs using Virtual Labs – Backup Verification



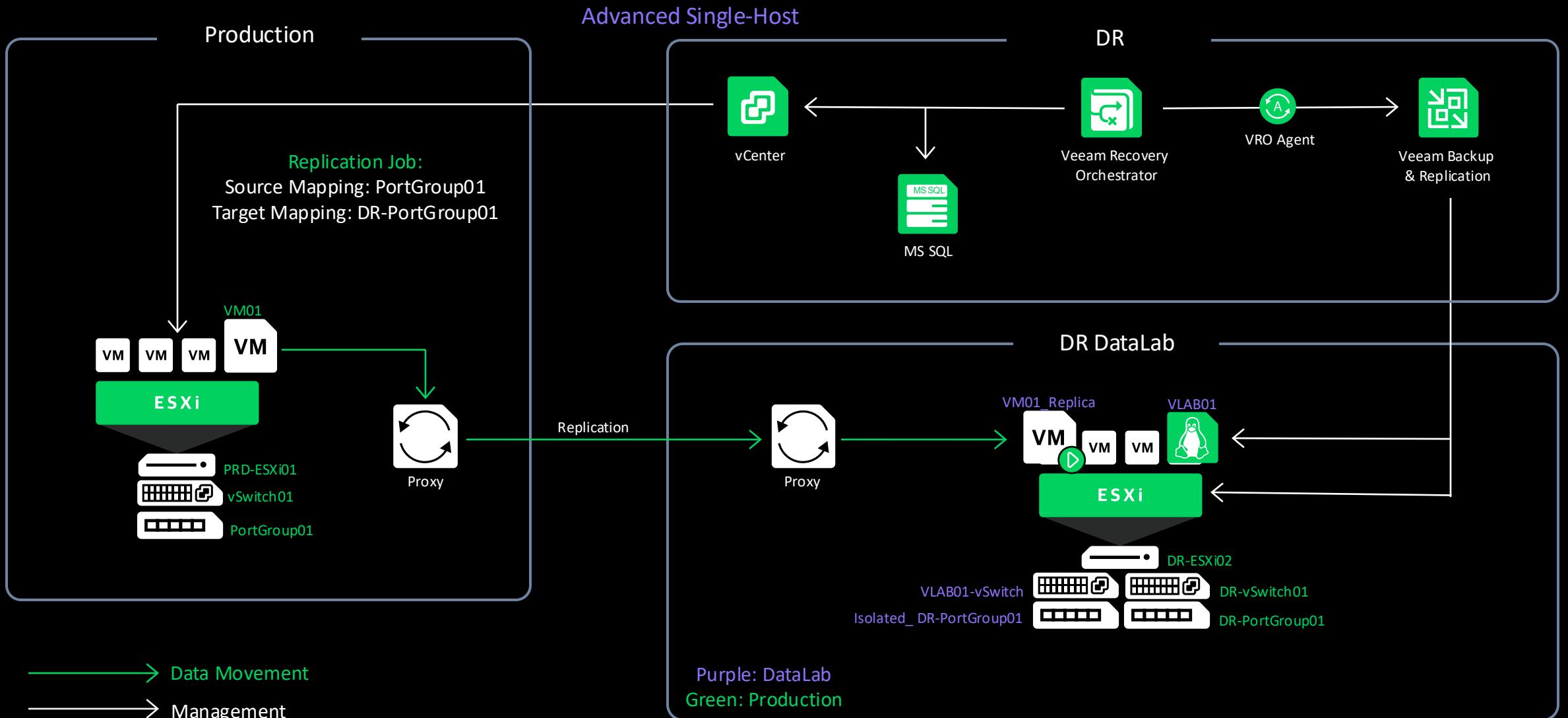
DataLabs using Virtual Labs – Backup Copy Verification

Advanced Single-Host



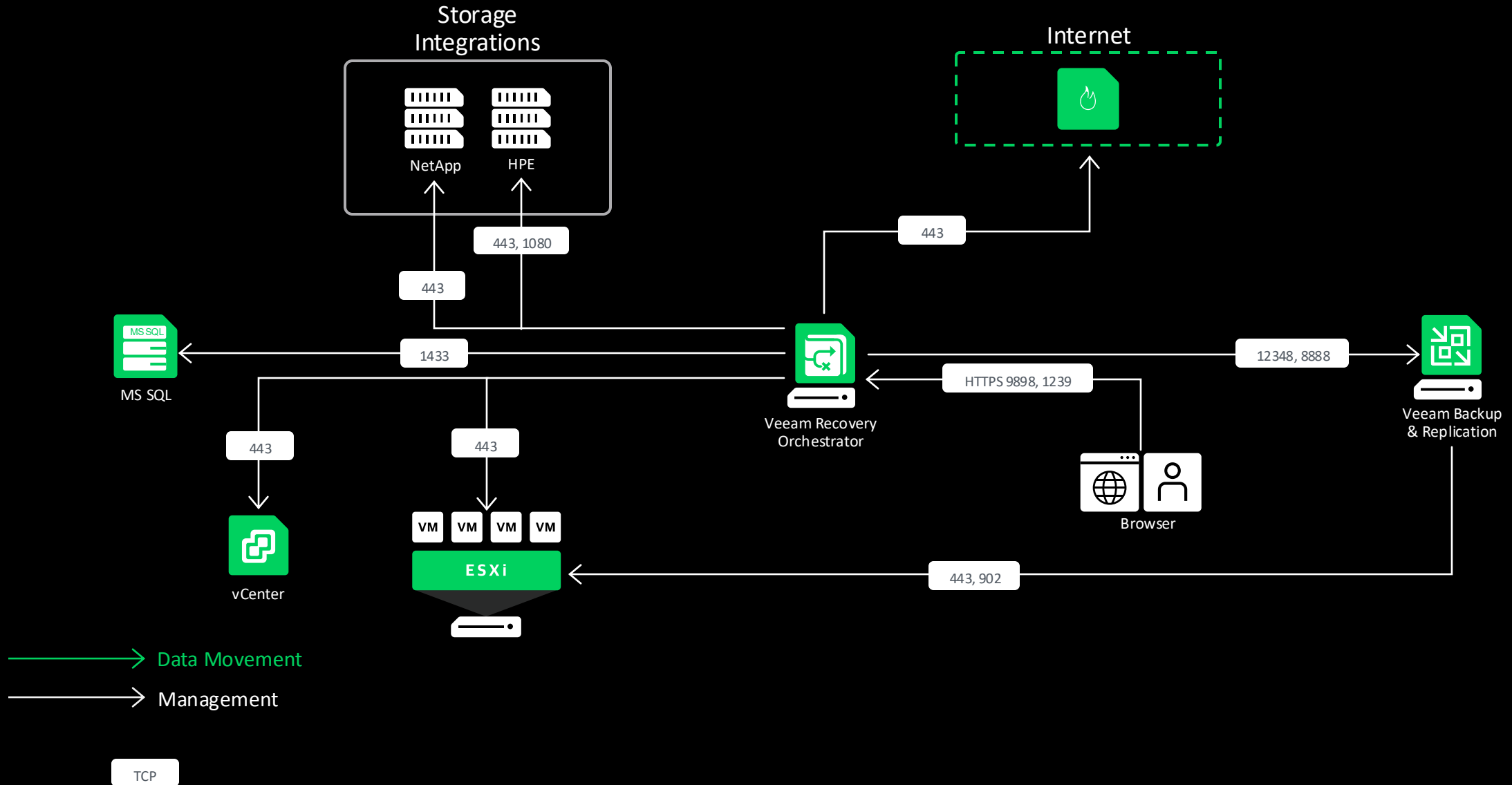
Virtual Lab Port Group Intercept:
DR-PortGroup01 -> Isolated_DR-PortGroup01

DataLabs using Virtual Labs – Replica Verification



Virtual Lab Port Group Intercept:
DR-PortGroup01 -> Isolated_DR-PortGroup01

Veeam Recovery Orchestrator Ports



Resources

Veeam University: <https://www.veeam.com/free-on-demand-trainings.html>

Hands-on Labs: <https://go.veeam.com/hands-on-lab-experience>

VRO Heroes Den: <https://community.veeam.com/groups/vro-heroes-den-120>

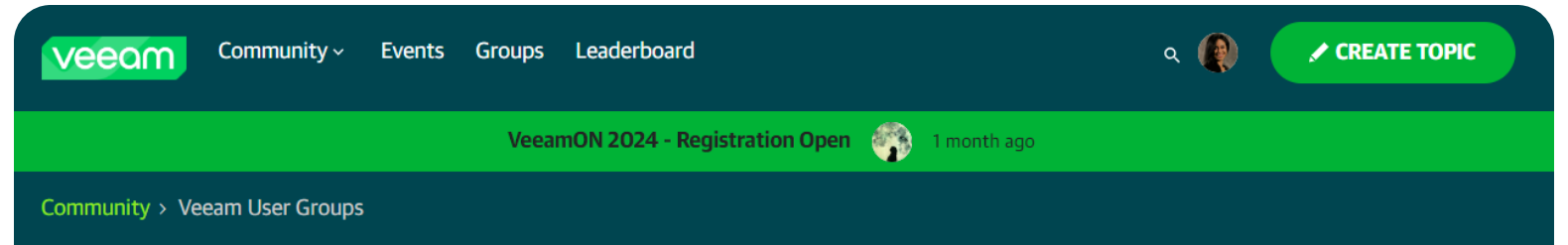
KB: <https://www.veeam.com/knowledge-base.html>

User Guide: https://helpcenter.veeam.com/docs/vro/userguide/deployment_planning_preparation.html

Need help? Contact us at: veeam.customersuccess.onboarding@veeam.com

VRO Heroes Champion's Den

Join the Veeam Community Hub
<https://community.veeam.com/>



Veeam User Groups

My groups

VUG USA

VUG Leaders

Cyber Security Space

Automation Desk

Women and Allies In Tech

VRO Heroes Den

Share Your Veeam Success Story

- Feature on our website and social channels
- Speaking opportunities at VeeamON
- Showcase your expertise within the community
- Get KUDOS for your accomplishments.

Interested? Reach out to us at

advocacy@veeam.com



The Veeam logo is displayed in white lowercase letters within a white-outlined rounded rectangular box. The background features a green gradient with abstract white and light green geometric shapes.

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