Quorum® VIP

VMware Integrated Protection

Over 75%* of businesses use VMWare as the primary virtualization platform for their production servers. This statistic holds true with most customers Quorum is currently protecting.
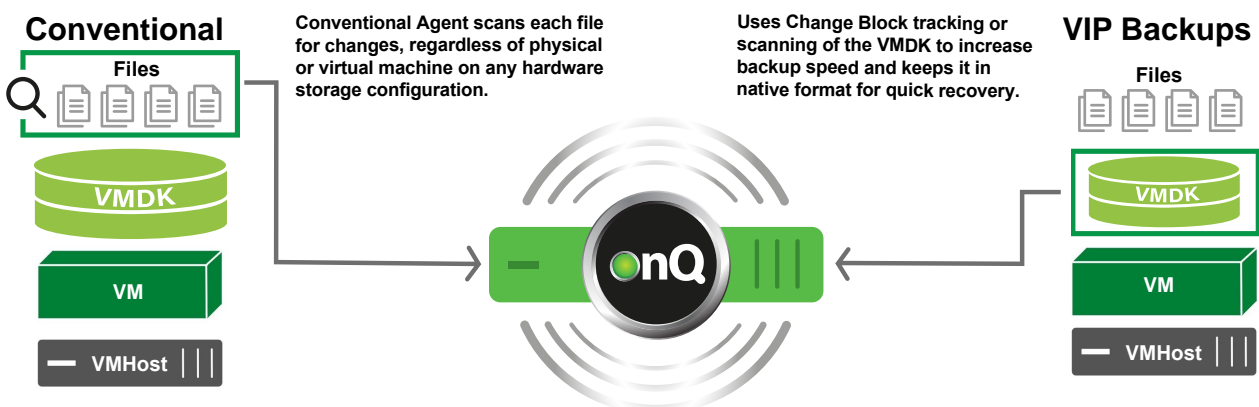
Quorum has built its business by offering simplicity and an all-encompassing solution that is not dependent on the production hardware or virtualization platform. This provides Quorum the unique ability to support backup, failover and failback for physical, and virtual machines on any hypervisor.

95%

Announcing Quorum VIP – Quorum's VMware Integrated Protection. This solution allows Quorum to backup VMs from the host level instead of at the file level – **improving speed of backup by up to 95%** as well as offering more failover and failback options than before. Quorum can now protect Windows and Redhat and Suse Kernels of Linux from VMware and offer the option to instantly failover to the onQ appliance or failback **any** VMWare supported OS back to a current production VMware host with spare capacity to run the failed instance. With VIP, customers can now leverage VMware Storage VMotion to move data back from the onQ to the production environment without the need to schedule any down time for the VM.

Quorum onQ Process

Conventionally, Quorum leverages an agent on the VM that uses VSS to backup the changes to each file on the machine -ignorant of the host, or where/how the disks are allocated. This makes the solution ubiquitous to any environment.

Conventional
Files

Conventional Agent scans each file for changes, regardless of physical or virtual machine on any hardware storage configuration.

VMDK

VM

VMHost

Uses Change Block tracking or scanning of the VMDK to increase backup speed and keeps it in native format for quick recovery.

VIP Backups
Files

VMDK

VM

VMHost

Quorum®

Quorum VMware integrated Protection (VIP)

Quorum onQ VIP Process

The onQ VIP process instead uses and proxy VM to interface with the VMWare host directly, using VSS to quiesce the data, but able to backup the changes to the VMDK file instead of the need to scan each file within the disk. This improves backup speeds and allows the onQ to hold the VMDK. Quorum can then attach the VMDKs to a host on demand in the event of a disaster to restore the data to production.

What makes Quorum unique is that it can also make supported OSes instantly bootable from the appliance itself. If the entire VMhost were made inaccessible, or the customer lost the entire site, the onQ has the power and capability to boot the recovered servers directly from the appliance as it does with any other backup. And as a reminder, all Quorum appliances offer an NVMe cache producing 25,000 to 30,000 IOPs of performance, so you know the server will run at or better than production speeds for many customers.

Quorum VIP Failback

Because the onQ is holding data in the native VMDK format, if the servers are recovered by mounting the VMDK back to production, customers have the added benefit of leveraging VMware Storage V-Motion to migrate the data from the onQ back to the Vmhost without the need to power down the host, so there is no added down time to the disaster.

Secure

As always, all backups on the onQ are immutable and contain a virtual air gap, making them hidden to prying scans like those of ransomware to ensure the data is unharmed and available if you need to recover. All data is encrypted in transit and at rest.

References

VMware by Far the Largest in the Server Virtualisation Market.
https://www.smartprofile.io/analytics-papers/vmware-far-largest-server-virtualisation-market/

Toll Free: +1-877-997-8678 | Phone: +1-408-708-4500 | US Sales: sales@quorum.com
Support: support@quorum.com | Address: 2890 Zanker Road, San Jose, CA 95134

Quorum VMware integrated Protection (VIP)

Qu🟢rum®