Why Quorum onQ

Why Quorum onQ is the Most Secure Platform to Protect Your Business from Ransomware and Disasters

Quorum®
1-Click Instant Recovery

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01 INTRODUCTION

Quorum is an industry leader in protecting businesses around the world from threats that can have devastating and costly consequences. Quorum provides the tools to ensure your business doesn't miss a beat should you fall victim to a ransomware attack or an unexpected disaster which shuts down some or all of your production environment. We accomplish this through one of the most versatile solutions available.

Quorum's versatility comes in number of dimensions:

- We equally support virtual, physical, and hybrid environments, so we are your one stop solution.
- Our product easily scales from small to large enterprise businesses.
- Being appliance based we provide the added security with a logical air-gap from your production environment.
- We provide a wide range of options to meet your company's protection requirements; local only, local to remote, local to cloud, and direct to cloud.
- Our products are highly scalable supporting single servers up to hundreds of servers, from standard servers up to high performance servers with IOPS in the millions.
- Quorum supports RPO of as frequent as 15 min and RTO of roughly five min.
- Our products are also field tried and tested with customers running solely on our appliance after a disaster for months while working through the insurance process or acquiring replacement hardware.

Let's dig a bit deeper.

02 Why Use an Appliance

Quorum believes that to best protect your data and provide you the most secure solution which you know will be there when needed, we offer the onQ appliance. This is a proprietary, secure, easy to use, solution which contains all the data required to bring up a replica of your production environment in minutes. The use of a stand-alone appliance also provides a logical air-gap which isolates your recovery solution away from your production environment.

Solutions which use existing hardware within your production environment are equally susceptible to ransomware as the rest of your environment. By replicating to a remote appliance or the Quorum Cloud, you can be confident you will have a fully operational environment to which your team can quickly connect and continue to run your business.

A few highlights of Quorum onQ Appliance:
- Up to 8,000,000 IOPS performance
- 4-378 TB of protection
- 10GB networking standard support for 25GB (higher on demand)
- Latest generation of Intel Xeon processors

03 Types of Protection

Quorum offers two types of protection: Protected Nodes (PNs) and Recovery Nodes (RNs).

1. Protected Nodes (PNs)

Protected Nodes (PNs) provide the ability to take a backup of your selected servers as frequent as every 15 minutes (RTO). Should you have an issue, your data will be available to be restored to the production environment via either file level recovery, windows share recovery or bare metal recovery.

2. Recovery Nodes (RNs)

Recovery Nodes (RNs) provide the same features as the PN plus that added ability to rapidly recover your environment in the event of a disaster, with a recovery time of roughly 5 minutes (time to boot the appliance).

The RNs will be able to boot with the same IP, data and applications to allow you to continue to run your business while you are sorting out next steps to fix whatever may have happened to your production environment. Once your environment has been restored there are several different options to recover your data back to your production servers to meet your specific needs. The Quorum solution is extremely dependable with examples and testimonies of companies running on an appliance for months while working with insurance or replacing/rebuilding impacted servers.
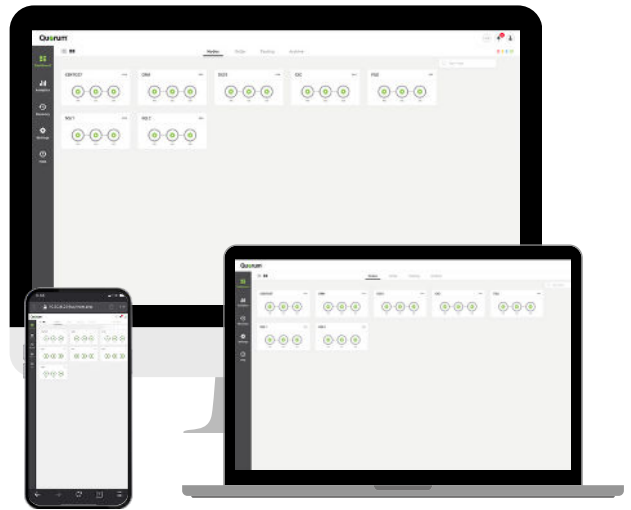
04 Supported Platforms

Quorum fully supports physical servers and virtual servers.

Virtual Servers

For virtual servers we launched our VMware Integrated Protection (VIP) in early 2023. VIP is fully integrated into the native VMware tools to register/manage VMs and to recover following a disaster. VIP utilizes the same security in transporting (encrypted) and storing (immutable) your data. This is an agentless proxy on the VMs with image-based back-ups. Quorum provides two options should you have a problem and need to recover your environment.

In the event of ransomware or a disaster you can spin up your servers on the appliance if it is one of the many supported OSs. Otherwise, you easily point the data to any VMware host to fully spin up your business environment. When you are ready to recover your data back to your production environment you can move the data via vMotion from your onQ back into production. This is accomplished while fully operating your business.

Other Servers

For physical servers and other virtual servers not on VMware, Quorum uses an agent-based application to identify and back-up your servers. Quorum takes an initial back-up of the server(s) and builds on this initial back-up with incremental back-ups scheduled based on your company's requirements. These back-ups are fully encrypted, logically air-gapped, and once backed-up they are immutable. In the event of a disaster, you access the onQ interface and spin up your environment. If you are recovering from a ransomware attack you select a copy of your data from before the attack was identified. It's that simple.

05 Security

For any threat detection, or DR solution, security is a place you cannot compromise. All Quorum appliances are equipped with many layers of security to protect your data to ensure that your IT infrastructure is available when needed.

Logical Air-Gap

The first is the logical air-gap. By using an appliance-based solution with a hypervisor we have removed the storage layer from appearing on your network. This ensures true separation between you production environment (typically the focus of an attack or the concern for a disaster) and your recovery solution. This separation is important but only one of the tools used to ensure you are protected.

Encryption in Motion and At Rest

Additionally, the data is fully encrypted in motion and at rest on the appliance. Besides being encrypted the data is also immutable; i.e., it cannot be changed once it is placed on our appliance.

Multi-Factor Authentication (MFA)

Our solution includes Multi-factor Authentication (MFA) to provide a higher level of security against unauthorized access. Quorum also leverages zero trust polices to ensure that if your network, domain, or single sign-on platform is compromised, the onQ will not be affected.

06 Configuration Options

Between our appliances and our private cloud, Quorum has a wide range of configurations to protects your environment while providing the industry standard 3-2-1 approach for backup and recovery.

onQ Local
High Availability (HA)

The most basic solution is to use an onQ appliance locally. This solution is specifically designed for high availability (HA). The appliance is housed locally and connected directly into the production environment. While maintaining the logical air-gap with your production environment, this solution provides the most immediate response in the event of a failure or ransomware attack.

onQ Cloud
DR as a Service (DRaaS)

Quorum also offers the option to replicate the data from a local appliance to the Quorum Cloud (DRaaS). The Quorum Cloud is a fully PCI and HIPAA certified environment specifically built from the ground up to provide disaster recovery services. We have locations on the West Coast and the East Coast. Should you have an outage, in most cases you will recover to the local (HA) appliance but in those rare occasions when you cannot recover from the HA you will be able to spin up and run your business from our cloud. The Quorum Cloud has all of the same features as the appliance with the added benefit of a dedicated virtual firewall for each customer to ensure the safety of your data.
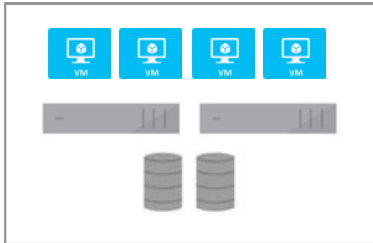
onQ Remote
Disaster Recovery (DR)

Data is stored on the local appliance (HA) and replicated to a second appliance at a remote location (DR). This ensures there are three copies of the data, in two mediums, with one at a second location. Both of these appliances are fully capable of running your full environment in the event of an outage.

onQ D2C
Direct to Cloud

Utilizing the Quorum Cloud, you also have the option to back up your data directly to our Cloud. Using this configuration, you will connect to our Cloud using a small VPN connection through a provided local small router. All of the benefits of the Quorum Cloud in a direct backup. onQ D2C is designed and optimized for small environments to provide disaster recovery in the most cost-effective manner.

Quorum Local, Cloud and Remote

On-Prem Infrastructure

onQ Cloud

DRaas Cloud
RTO = 5 minutes
100% Private
100% Encrypted
Only pay for what you use
Public IP's available
Access via VPN

VSS Incremental sub file level
Encryption in motion and at rest
Compressed/Deduplicated

onQ Local

HA Appliance
Local RTO = 5 minutes
Granular Recovery
Retention = 45+ days
Archiving = years

onQ Remote

Customer DR Site
RTO = 5 minutes
DR Appliance

Legend

- - - →	Local Only	- - - →	Local to onQ Cloud
- - - →	Local to Remote	- - - →	Direct to onQ Cloud

07 Additional Services

Archive Vault
Long-term retention

In addition to the options to protect your data Quorum also offers an Archive Vault feature where you can store your data for a long period of time. Included with the Quorum Cloud or as an add on to appliance solutions the archive vault manages snapshots from the onQ for long term storage and retrieval.

onQ SIRQL
SQL Instant Recovery

For onQ RNs running SQL sometimes the RPO needs are less than the snapshot-based backup can provide. To augment this, Quorum has designed a system leveraging SQL transaction log shipping and auto replay of the logs on the RN to bring SQL databases up to the minute for RPO.

Quorum C2C
Cloud to Cloud

Office 365 and Google Suite now make up the majority of mail managed systems in the world and Quorum can fully protect those environments by backing them up to AWS with unlimited retention. All data is fully encrypted, indexed and searchable to recover back to the cloud or downloaded in a local format. Along with the above SaaS services, Quorum can also protect DropBox, Box.net and Salesforce data.

Summary

Quorum onQ Solutions provide a comprehensive and versatile platform for disaster recovery and high availability. Quorum has the speed to keep your business running with appliances over 1 million IOPS. A range of options to provide the protection and security you need to protect your data in a package that doesn't require extensive training. With Quorum's appliances you can continue to run your business for months if needed and when you are ready easily move your current data back into production. Trust in Quorum onQ Solutions for peace of mind and confidence in your disaster recovery strategy.

About Quorum

Quorum provides disaster recovery and ransomware protection solutions that helps businesses worldwide to protect their mission-critical data with an all-in-one, easy-to-use, and instant recovery solution. Our onQ product provides backup, recovery and storage replication of your mission-critical data after any storage, system or site failure. Regardless of which deployment environment is selected for your business, Quorum protects your mission-critical data under any circumstance and threat. Quorum's modern data protection serves customers worldwide, with offices in the US, UK and business affiliates with offices in South Korea and the UAE. To learn more, visit us at www.quorum.com.

Quorum®
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