Data Protection for Business-Critical Workloads

FlashStack® with Veeam

Business-critical workloads—like packaged apps, databases, messaging, collaboration, big data, and artificial intelligence (AI)/machine learning (ML)—are the foundation for today's modern enterprises. Now more than ever, these workloads must be supported flawlessly, which requires a resilient infrastructure that is built for them. The workloads need a total ecosystem that can support their performance, including networking, compute, automation, load balancing, and storage to name a few, all to help ensure maximum performance and availability. Beyond physical and virtual infrastructures, the actual data and applications themselves must be supported, ensuring that they are available and recoverable when an issue arises. Of course, not all applications are created equal, and different applications have different performance and availability requirements.

Challenges Facing Today's Organizations

Today's businesses requires new levels of IT efficiency and infrastructure agility to meet user expectations and business demands. Understanding each of your business-critical workloads, their interdependencies, and their architectural requirements is vitally important. Poorly performing applications or downtime can be costly, and can be a drain on the already scarce IT resources needed to operate them.

FlashStack by the Numbers

446%
Five-year return on investment (ROI)[2]

97%
Reduction in unplanned downtime[2]

72%
More efficient IT infrastructure management[2]

8x
more innovation time for IT staff[2]

99.9999%
Data and application availability

One Size Doesn't Fit All

One size doesn't fit all for your applications. Look for solutions that are pre-validated, designed, and optimized for your workloads. The result will be faster and more consistent deployments plus reliable, consistent performance for your applications and workloads. In other words, higher levels of customer satisfaction.

You need to have confidence that the infrastructure you choose will deploy quickly and seamlessly and deliver the promised performance without spending needless time performing tuning and management. Furthermore, you want to be assured that the applications will be available so when something does happen, you can recover quickly with the lowest recovery point objectives (RPOs) and recovery time objectives (RTOs).

Modern Infrastructure Combined with Modern Data Protection

Veeam, Cisco®, and Pure Storage® have partnered to provide customers a pre-validated and configured infrastructure and data-protection solution that's designed for modern business-critical applications. First, there is a modern converged infrastructure in FlashStack that provides a pre-integrated, pre-validated solution that combines compute, network, and storage into a modern infrastructure platform designed for business-critical workloads.

FlashStack delivers high performance, increased flexibility, and rapid scalability. It deploys quickly and confidently, delivers reliable performance, and reduces management and overhead for patches and updates.
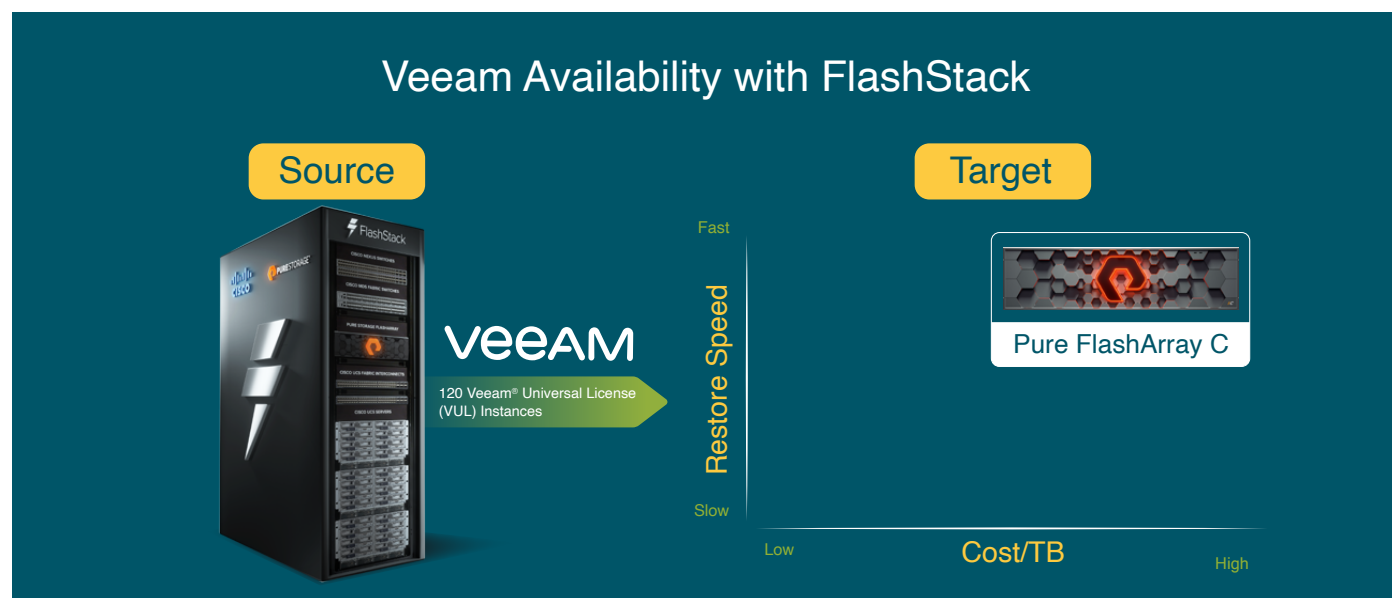
Veeam delivers modern data protection that today's infrastructures need when combining backup and replication with advanced monitoring analytics and intelligent automation. Veeam integrates with FlashStack to deliver the highest performance and the most advanced features to help ensure that your data and applications are available while also unlocking the power of your backup data for additional business value.

Veeam Availability with Pure Storage FlashStack

FlashStack is built on all-flash FlashArray™ drives that provide six-nines (99.9999%) availability. And Pure Storage's Purity software enables you to instantly snapshot any volume without worrying about pausing workloads, all with zero overhead. Veeam can directly make use of these storage snapshots for backups or replicas as often as you need to, which can dramatically lower RPOs. It gives you added flexibility and the ability to initiate a backup at any time and frequency, with no interruptions to operations.

Unleash the Power of Your Data

Unleash the power of your data with Veeam DataLabs. DataLabs make use of Pure Storage's storage snapshot to create nearly live copies of your data in a protected virtual environment where you can perform any data reuse use case, including DevOps testing, security forensics, compliance assurance, and analytics. Use some of Veeam's advanced functionality like Secure Restore and SureReplica. Secure Restore offers the ability to stage a backup in a quarantined environment and scan the data for viruses or malware before you restore that data back into production. This is particularly important in the event of a ransomware incident. In fact, Veeam and Pure Storage complement each other by using Pure Storage's SafeMode snapshots technology to make an immutable snapshot of your backup to prevent the backup environment from being modified or deleted.

Veeam Availability with FlashStack

FlashStack Data Protection with Veeam

Choose the Right Backup Environment For Your Needs

Veeam, Cisco, and Pure Storage have tested workloads on FlashStack running Veeam solutions to store backups and replicas. We tested Veeam by orchestrating the limitless snapshots of FlashStack to back up and restore virtualized workloads on FlashStack as the source for backups and replicas. Using Pure Storage's limitless snapshots enables Veeam to perform more frequent backups to achieve the lowest RPOs, all without impacting the performance of the production environment. At the end of the day, it's all about choice; the right choice of performance, scalability, capabilities, and price for your workloads and the service level agreements (SLAs) and scale you need to achieve.

Choose the Backup Environment That Is Right For You!

Pure Storage FlashArray, combined with Cisco UCS® servers, delivers high flash-based performance that can handle multiple workloads while delivering the ultimate performance for your data-protection environment. It also scales out and up. FlashArray also offers Pure Storage SafeMode snapshots to protect backup data and metadata against data loss and threats. Ransomware can't delete, modify, or encrypt SafeMode snapshots, even with administrative credentials.

Summary

When modernizing your production environment to FlashStack, it makes sense to also modernize your data protection. Veeam, Cisco and Pure Storage provide you freedom of choices to modernize your data protection and achieve the SLAs you require while unlocking the power of your data for added business value.

Benefits

- Fast, low-risk deployments

- Reduced operational resource requirements— five-year return on investment (ROI) of 431 percent

- Simplified scalability to the cloud

- Consistent performance with 58% reduced application latency[1]

- Data and application availability of 99.9999%

- Rapid recovery and lower RPOs

- Consolidated control, delivery, and lifecycle management with Pure1® cloud-based management

- Data can be repurposed for test dev, forensics, compliance, and analytics

- Flexible consumption with pay-as-you-go billing

- World-class single-call support

For More Information:

www.flashstack.com

[1] IDC, "FlashStack Delivers Business Value Through Efficiency, Improved Performance, and Scalability." 2018.
[2] IDC Whitepaper, sponsored by Cisco and Pure Storage, "FlashStack delivers Business Value through Simplicity, Flexibility, and Speed, Doc. #US47408621

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