

Veeam Feature Comparison



Product Feature	Arcserve UDP	Veeam
Direct-to-Cloud Backup and Disaster Recovery	Arcserve UDP's Direct-to-Cloud data protection solution provides high-performance, easy-to-manage backup and disaster recovery for business.	Veeam offers copy backup using Amazon Storage Gateway and it offers DRaaS with its Cloud Connect MSP solution. Cloud Connect is a hybrid cloud data protection solution that provides integrated cloud-based DR (disaster recovery) through a DRaaS provider.
Email Archiving Solution	Arcserve Archiving is a purpose-built email archiving solution designed to protect corporate email records and make them easily accessible for audits and legal discovery.	Veeam has no offering for email archiving.
Unified / central console	Arcserve UDP is a new modern data protection solution launched in 2014 with a single unified console.	Veeam is a family of products (Availability Suite, B&R, Linux, Office 365) that operate using separate consoles.
Global source-side dedupe as standard	Arcserve UDP was developed with global source-side deduplication as core functionality. It benefits storage, replication, WAN and remote sites.	Veeam offers a mixture of dedupe and compression that is inconsistent across its platform. Veeam relies heavily on 3rd-party dedupe appliance (e.g. Data Domain, ExaGrid and Windows Server)
Modern Backup Plans methodology	Arcserve UDP was designed around a modern backup plan methodology. Application specific workflows guide the creation of complex backup plans.	Veeam follows a traditional and schedule type of methodology

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1. Modern Enterprise Backup Solution

a. Unified console for all functionality

- i. **Arcserve UDP** is a new modern data protection solution launched in 2012(?) with a single unified console.
- ii. **Veeam** is a family of products (Availability Suite, B&R, Linux, Office 365) that operate using separate consoles.

b. Global source-side dedupe as standard

- i. **Arcserve UDP** was developed with global source-side deduplication as core functionality. It benefits storage, replication, WAN and remote sites.
- ii. **Veeam** offers a mixture of dedupe and compression that is inconsistent across its platform. Veeam relies heavily on 3rd-party dedupe appliance (e.g. Data Domain, ExaGrid and Windows Server).

c. Modern backup plans methodology

- i. **Arcserve UDP** was designed around a modern backup plan methodology. Application specific workflows guide the creation of complex backup plans.
- ii. **Veeam** follows a traditional and schedule type of methodology.

d. Shortened installation; little PS

- i. **Arcserve UDP** installs in just hours and can be up and running quickly without a large learning curve and expensive professional services.
- ii. **Veeam** has broken down its portfolio in multiple modules, some of them not integrated at all like Office 365, making the deployment and management of the solution more complex.

2. World Class Image-based Backup Protection

a. Agentless Restore for Virtual Machines

- i. Both vendors offer Agentless backup for VMware VM and Hyper-V with granular restore for key applications.

b. Instant Recovery for Virtual and Physical (V2V, P2V, V2P)

- i. **Arcserve UDP** has incorporated this feature beginning with its v6.0 release, and can support instant VM restores, cross-hypervisor IVM V2V, instant restores for a VMware VM onto Hyper-V - and vice versa - and instant VM recovery of a physical node (P2V IVM) to VMware or Hyper-V to protect physical machines.
- ii. **Veeam** released Backup & Replication v9.5, which enables users to perform instant recovery of endpoints and physical servers into a Hyper-V VM. This is currently its only support for Hyper V. Veeam supports instant restores for VMware VM and Hyper-V, but lacks cross hypervisor failover.

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c. Virtual Standby for Virtual and Physical (V2V, P2V, V2P)

- i. **Arcserve UDP** offers Virtual Standby (VSB) for VMware VM and Hyper-V with the unique capability for automated failover (IVM is manual failover), choice of restore target (optimal performance) and cross hypervisor (choice of hypervisor at target).
- ii. **Veeam** has nothing similar to VSB.

d. Backup direct from UNC path

- i. **Arcserve UDP** protects SMB (CIFS) shares exported by Windows, Linux and NAS devices. Additionally, users are able to use such paths as a backup destination. Veeam does not have this functionality. They can back up to a Share path but cannot protect or backup a Share path as the source.

e. Automatic Protection of New VM's

- i. **Arcserve UDP** enables users to protect a single container object (such as resource pool) in the vSphere hierarchy, and as a result, new VMs added into the container object are automatically protected.
- ii. **Veeam** has provided this capability through its early releases.

f. Advanced Backup Reporting

- i. **Arcserve UDP** delivers advanced SLA reporting for RTOs and RPOs to provide organizations with the ability to generate compliance reports related to backup windows and required restore times.
- ii. **Veeam** requires its reporting software to be purchased in addition to its backup and replication suite, and runs separately from the backup console. Its reporting software enables users to view protected VMs, the frequency of the backup, and how long a previous restore took. Veeam's backup suite and reporting software are not integrated, and subsequently may require a larger investment.

g. Automated Recovery Point Testing

- i. **Arcserve UDP** enables users to view the health status of their recovery points. The integrity and recoverability are tested on a scheduled basis by automatically creating instant virtual machine or instant virtual disk copies, with additional option to run a custom script against an Assured Recovery test.
- ii. **Veeam** offers Sure Backup, a capability that runs backup verification tests against the production servers that have been backed up. Further functionality includes predefined Windows server roles that can be selected (e.g. DNS, Domain Controller, SQL and Mail Server), and will run scripts against the server to ensure specific role capabilities are intact. This capability is only available for virtual machines that are backed up, and does not provide physical server support.

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3. HW Storage Snapshot Integration

- i. **Arcserve UDP** has expanded on its existing integration with NetApp with Nimble Storage and HPE 3PARStoreServ Storage in version 6.5.
- ii. **Veeam** has expanded on existing integrations with HPE, NetApp and Dell EMC, and extended its direct storage snapshot support to Nimble Storage in version 9.5.

4. Advanced Cloud Backup

a. Copy Backup to Public Cloud

- i. **Arcserve UDP** provides a Copy Recovery Point task that supports Amazon S3 blob storage volumes as a remote target. Recovery points stored in S3 are automatically protected with replication and recovery points are copied back to local site for disaster recovery.
- ii. **Veeam** requires the Amazon Storage Gateway, and user reports indicate this solution is complex and performs poorly. It's more of a glorified VTL solution.

b. Virtual Standby to Public Cloud

- i. **Arcserve UDP** provides virtual standby to support the conversion of Windows recovery points to virtual machine formats on AWS EC2, and uses snapshots to easily restore data.
- ii. **Veeam** supports direct restore to Microsoft Azure and delivers cloud restore for backups created by any Veeam product in its newest v9.5, enabling users to take on-premise workloads and restore or migrate them to Azure.

c. Instant VM to Amazon Web Services

- i. **Arcserve UDP** Instant VM supports AWS EC2 and EBS volumes to protect Linux systems.
- ii. **Veeam** only supports limited data copy through the Amazon Storage Gateway.

d. Recovery Point Server (RPS) using AWS EC2

- i. **Arcserve UDP** supports a Recovery Point Server in the Amazon Cloud. This configuration supports WAN optimized replication and full/incremental backup integration in addition to VSB and Instant VM for Windows and Linux systems.
- ii. **Veeam** only supports limited data copy through the Amazon Storage Gateway.

e. Protect EC2 Instance inside AWS

- i. **Arcserve UDP** supports local backup of EC2 instances using the Linux Backup Agent. Full VM and file-level recovery is supported for Linux systems. You can restore an EC2 instance through Instant VM to Amazon AWS EC2 with auto recovery option.
- ii. **Veeam** only supports limited data copy through the Amazon Storage Gateway.

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f. High Availability and Business Continuity to Public Cloud

- i. **Arcserve RHA** is an automated replication and high availability solution that support both private and public cloud. Amazon AWS offers RHA instances pre-installed for DRaaS.
- ii. **Veeam** does not have a high availability capability despite its misleading messaging, and only offers limited AWS support overall

g. Public Cloud Service Provider

- i. **Arcserve Cloud** is a backup and restore solution that is available on a subscription service for off-site backup retention and DRaaS.
- ii. **Veeam Connect** is a similar offering.

h. Direct-to-Cloud Backup and Disaster Recovery

- i. **Arcserve UDP's** Direct-to-Cloud data protection solution provides high-performance, easy-to-manage backup and disaster recovery for business.
- ii. **Veeam** offers copy backup using Amazon Storage Gateway and it offers DRaaS with its Cloud Connect MSP solution. Cloud Connect is a hybrid cloud data protection solution that provides integrated cloud-based DR (disaster recovery) through a DRaaS provider.

5. Platform Support

a. Backup Agent for Windows

- i. **Arcserve UDP** has had Windows agents for physical servers from its initial release, providing support for Microsoft Windows Server 2003 SP1 all the way to the newest Windows Server 2016.
- ii. **Veeam's** Free Endpoint Backup provides a simple solution for backing up Windows-based desktops and laptops, but not physical servers. Its agent for Microsoft Windows is built on technology introduced in its Free Endpoint Backup, and will be used to back up physical Windows servers; however, this is not yet available and will only provide support for 2008 R2 Server editions to Windows Server 2016.

b. Backup Agent for Linux

- i. **Arcserve UDP** has had agents for Linux from its first release. It uses a single Linux system with an agent installed to orchestrate backups to all other Linux physical servers in the environment, and can perform agentless backups of Linux physical systems while only requiring one server to hold the Linux agent.
- ii. **Veeam's** agent for Linux is a standalone product launched in a beta version and not yet fully released.

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c. Backup Protection for Office 365

- i. **Arcserve UDP** protects Office 365 emails hosted on the Microsoft public or private cloud with a fully integrated solution.
- ii. **Veeam** offers a standalone product that connects to an Office 365 subscription utilizing the Exchange Web Services (EWS) API.

d. Email Archiving Solution

- i. **Arcserve Archiving** is a purpose-built email archiving solution designed to protect corporate email records and make them easily accessible for audits and legal discovery.
- ii. **Veeam** has no offering for email archiving.

6. Backup Protection for Legacy Applications

a. Backup Protection for Physical servers

- i. **Arcserve UDP** delivers data protection for physical servers leveraging Arcserve Backup, a backup solution designed for file backups and offers the widest support for physical servers and devices.
- ii. **Veeam** is designed primarily for image-based backup and its support for physical servers is just an afterthought. It supports a limited number of platforms (Windows HW centric), lacks BMR capability and its Agents operate as standalone and are not integrated with central console.

b. Bare Metal Restore

- i. **Arcserve UDP** offers advanced BMR to restore Windows and Linux for virtual and physical machines.
- ii. **Veeam** offers limited BMR using its standalone Endpoint Agent.

c. Tape

- i. **Arcserve UDP** supports the leading tape devices, numbering in the hundreds and it supports all the advanced features for tape management, replication, bar code reading, tape lifecycle and more.
- ii. **Veeam** is designed primarily for image-based backup to disk and as such only offers support for tape on a very limited basis.

For more information on Arcserve, please visit arcserve.com