

# File-Level Recovery Speed Improves Dramatically for School District

*"When I spoke to a friend of mine who is running a virtualized environment and looking for a backup system, I told him to look into Veeam Backup & Replication. "We've been ecstatically happy with it. It has made life so much easier."*

**Cory Goode**  
District Technology Service Specialist  
Barren County Schools

## SUMMARY



### Company

Located in south central Kentucky, the Barren County School District serves approximately 4,700 students and employs 500 faculty members. It is one of the fastest growing school districts in the state.

### Challenge

Replace a physical backup solution with a virtualized backup solution for a VMware infrastructure

### Solution

**Veeam Backup & Replication™**

### Results

- Improves file-level recovery speed by 97 percent
- Increases full virtual machine restore speed by 98 percent
- Decreases space needed for backup storage

## The Business Challenge

When the Barren County School District began experiencing tremendous population growth in 2005, district officials decided the timing was right to expand networking and computing services. Now 99 percent of the IT server environment is virtualized, which includes approximately 35 virtual servers running on Dell PowerEdge R610 hardware.

Shortly after the virtual migration, members of the IT team became frustrated with the physical backup system in use. "Not only was it difficult to operate, but it was also prohibitively expensive," explained Cory Goode, District Technology Service Specialist for Barren County Schools.

Then Cory and his colleagues heard about Veeam Backup & Replication. "We were immediately pleased with it because it enabled us to back up the entire state of each virtual machine with one product," he explained.

## The Veeam Solution

Soon Cory and his colleagues noticed two major differences between the physical backup system and Veeam Backup & Replication: price and usability. "Veeam's pricing is fair, and the software is so incredibly easy to use. The physical system's software was expensive, difficult to use, and almost always involved complications," he said.

Cory said the backup process with Veeam is significantly faster. "We used to schedule backups at night because they took so long with the previous system. That's not the case with Veeam. In fact, backup speed continues to improve with each version. What used to take 15 minutes with version 3.1 now takes 1.5 minutes with version 4.0."

Cory also measured file-level recovery speed between the physical backup system and Veeam Backup & Replication. "It used to take longer to find the file we wanted than to perform the actual restore," he said. "And it took at least 30 minutes just to figure out what backup we wanted to restore. With Veeam, file-level recovery is instantaneous, in less than one minute."

Cory expects full virtual machine restores to be much faster with Veeam too. "While we haven't done one yet, we expect it to be tremendously faster than before. For example, it used to take three to four days to replace hardware that had been damaged and reformat the drives," he said. "I expect Veeam to take less than 30 minutes. This used to be quite an ordeal for us, but with Veeam, it's a non-issue."

Storage space is not an issue with Veeam either. "We were able to keep two to three weeks worth of backups with the other product," he said. "But with Veeam, two weeks worth of backups only uses 20 percent of our backup storage space. We could probably keep an additional two weeks and not even reach 50 percent because of Veeam's compression."

## The Results

**Improves file-level recovery speed by 97 percent** - It used to take members of the IT team longer to find the file they wanted than to perform the actual restore. Cory said it also took at least 30 minutes just to figure out what backup they wanted to restore. With Veeam, file-level recovery is instantaneous—less than one minute.

**Increases full virtual machine restore speed by 98 percent** - Replacing hardware that had been damaged and reformatting the drives used to take the IT team three to four days. While team members haven't had to perform a full virtual machine restore yet, they expect it to take less than 30 minutes with Veeam Backup & Replication.

**Decreases space needed for backup storage** - The previous system enabled the district to keep two to three weeks of backups. With Veeam, two weeks worth of backups uses only 20 percent of storage space. Cory thinks he could keep an additional two weeks and not even reach 50 percent.

## About Veeam Software

Veeam Software, a premier-level VMware Technology Alliance Partner and member of the VMware Ready Management program, provides innovative software for managing VMware vSphere 4 and Virtual Infrastructure 3. Veeam offers an award-winning suite of tools to assist the VMware administrator, including #1 for [VMware backup](#): Veeam Backup & Replication; Veeam Reporter Enterprise, for [VMware performance, storage, capacity reporting](#) and chargeback; Veeam Monitor, for [VMware performance monitoring and alerting](#) across multiple vCenters; [Veeam Configurator](#), offering complete host configuration management; and Veeam Business View, a free add-on that works with other Veeam products to [provide business categorization for the VMware vSphere environment](#). With its acquisition of nworks, Veeam's products include the [nworks Smart Plug-in](#) and the [nworks Management Pack](#) that incorporate VMware data into enterprise management consoles from HP and Microsoft. [Learn more about Veeam Software by visiting \[www.veeam.com\]\(http://www.veeam.com\).](#)

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