Machine learning boosts application uptime

Predictive analytics based on machine learning boosts application performance and mitigates downtime by closing the app-data gap.

Storage is normally the first suspect when identifying the causes of the app-data gap, but the facts tell a different story.

Methodology

HPE Nimble Storage analyzed more than 12,000 instances of app problems from a range of IT environments, resulting in more than 7500+ root causes of downtime.

The app-data gap is real

Compare data from both businesses, learning to close the app-data gap.

Storage is normally the first suspect when identifying the causes of the app-data gap, but the facts tell a different story.

54% of issues found nothing to do with storage, resulting instead from configuration, interoperability, and other problems.

46% of issues were related to storage, including hardware and software issues, and occasionally performance.

Key findings

- **Storage-related causes**
  - 28% configuration
  - 11% interoperability
  - 8% storage configuration and performance issues
  - 7% non-storage related issues

- **Non-storage related causes**
  - 54% non-storage related causes

Causes of the app-data gap

- **Storage issues**
  - Network latency
  - Storage access
  - Storage performance

Flash alone isn't enough

While technology complexity makes it difficult to pinpoint the root cause of downtime.

- **75% of issues** had nothing to do with storage, including hardware and software issues, and occasionally performance.

It's time to close the app-data gap

Predictive analytics based on machine learning boosts application performance and mitigates downtime by closing the app-data gap.

Seven capabilities to look for when you evaluate storage solutions

1. **Downtime prediction**
2. **Prescriptive resolution**
3. **Full stack application of analytics**
4. **Rapid root cause analysis**
5. **Simplified user experience**
6. **Measurable availability metrics**
7. **Analytics-driven tech support**

Learn how to harness the power of machine learning to boost productivity.

Learn more at hpe.com/storage/nimble

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