Business challenges
The scale of machine-generated data is increasing exponentially as enterprises span out infrastructure and applications deployments across physical, virtual, and cloud environments. But at the same time, because of the data volume and distribution, it’s become overly complicated to make any sense of it. Log Insight provides the ability to make sense of all the log data. Log Insight solves all these issues by utilizing its predictive analytics, machine learning, and root cause analysis tools across physical, virtual, and multi-cloud environments for faster problem resolution.

Problems with traditional log management tools
Traditional log management tools are not suitable for a dynamic virtualized or hybrid cloud environment because:

- Traditional tools do not leverage logs and other machine data strategically to generate insights and troubleshoot IT infrastructure issues because machine-generated log data is massive in scale and difficult to capture and manage
- Siloed approaches to virtual and physical infrastructure management lead to finger-pointing and fire drills
- Other solutions may need additional piecemeal software in order to work with vSphere, and may not always support the latest version

Solution overview
VMware vRealize Log Insight addresses these challenges and enables improved quality of service, operational efficiency, and faster root cause analysis.

FIGURE 1: Log Insight provides a single location to collect, store, and analyze unstructured data from OS, apps, storage, network devices, and more at scale.
KEY CAPABILITIES

- Integrates with vRealize Operations to bring unstructured and structured data together for enhanced end-to-end operations management
- Integrates with VMware and third-party extensions available on the VMware Solution Exchange
- Provides built-in knowledge of vSphere and other VMware products, such as VMware Horizon® View™, vRealize Operations, and vRealize Automation™
- Collects and analyzes all types of machine-generated log data (e.g., application logs, network traces, configuration files, messages, performance data, and system state dumps)
- Is highly scalable, designed to handle big data
- Automatically chooses the best visualization for your data, saving you time
- Pinpoints and tracks potential issues before they arise via automated alerts
- Adds structure to unstructured log data, enabling administrators to troubleshoot quickly, without needing to know the data beforehand
- Delivers real-time monitoring, search, and log analytics, coupled with a dashboard for stored queries, reports, and alerts, enabling correlation of events across the IT environment
- Provides machine learning-based Intelligent Grouping, which groups related data together to enable high-performance searching for faster troubleshooting across physical, virtual, and cloud environments
- Allows customizable data retention, helping users improve compliance with license agreements and internal security policies, and avoiding unnecessary storage consumption

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