Securely Accelerate Application Modernization & Cloud Migration

Deep API Inspection Rapidly On-Boards Gateway Solutions & Protects Enterprise Data

Digital transformation has become an executive-level mandate because of its potential to unlock greater efficiencies and innovations. Application modernization and cloud migration are both key components of digital transformation. But transforming monolithic applications (whether they are on-premise or in the cloud) into microservices is easier said than done. If the security implications of application modernization are not considered, then organizations risk exposing its valuable enterprise data in an unforeseen blindspot: its APIs.

Application modernization and cloud migration must begin with an understanding of how enterprise resources, such as applications and data, map to its architecture . Organizations that lack visibility into this transformation may experience turbulence as the nature of its APIs are lost in translation. As part of the application modernization journey, the adoption of a new microservice architecture requires on-boarding relevant infrastructure, such as API management gateways, which can become a time-consuming and error-prone manual process.

Without deep API inspection, organizations will not know when APIs behave differently than expected or fall off the radar completely, leaving holes in their API gateway configurations that may cause application performance and data security issues.

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> CloudVector provides the visibility needed to rapidly onboard the infrastructure required for application modernization and cloud migration initiatives.
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DEEP API INSIGHTS DELIVER UNPARALLELED VISIBILITY

CloudVector Enterprise Edition delivers cloud native security automation at scale. This pioneering software solution automatically and continuously discovers, monitors and secures all APIs – even unknown "Shadow" APIs. CloudVector delivers immediate value by accelerating the on-boarding of API management gateways by automatically discovering API endpoints, the connections between them, and most importantly, their blueprint.

CloudVector leverages its unique micro sensor architecture to enable the deep inspection of APIs, delivering total visibility into its behavior (parameters and specifications) while streamlining the process of creating and maintaining a comprehensive API catalog (up-to-the-minute documentation of enterprise APIs). These micro sensors are capable of monitoring all application APIs – from monolithic on-premise applications to cloud-based microservices.

CloudVector Enterprise Edition deploys with zero impact to application performance or DevOps, and as an additional upside, DevOps teams can gain a greater understanding of application behavior to improve application testing or to enhance collaboration.

BENEFITS OF CLOUDVECTOR ENTERPRISE EDITION

- Automatically and continuously discover ALL APIs

- Automatically catalog APIs via deep inspection into payloads

- Deep API insights using analytics at the data layer

- Asset tagging, identify ownership and access controls, and data tracing

KEY FEATURES AND BENEFITS OF CLOUDVECTOR ENTERPRISE EDITION THAT ENABLE SECURE CLOUD MIGRATION INCLUDE

All-Encompassing Asset and API Discovery: CloudVector Enterprise Edition automatically and continuously discovers all APIs, even undocumented or unapproved APIs (Shadow APIs), deep at the data layer. Organizations that use CloudVector to create an API inventory can be confident that it accurately represents their entire enterprise application environment, which can be used to prioritize migration and the configuration of infrastructure.

Automatically Catalog APIs: CloudVector Enterprise Edition delivers deep inspection into API payloads to capture every parameter and specification. By eliminating the manual creation and maintenance of API catalogs, CloudVector Enterprise Edition enables organizations to efficiently create blueprints (records) of API parameters and specifications that remain up-to-date and error-free. These blueprints are easily exported into other API management solutions, such as API management gateways, to accelerate the deployment of application modernization and cloud migration infrastructure.

Deep API Insights: CloudVector Enterprise Edition provides a comprehensive dashboard of fine-grained API analytics deep at the data layer. These insights can be exported into a summary report or integrated into other API management solutions. CloudVector Enterprise Edition enables organizations to make informed decisions about how its data flows across its enterprise and interacts with its APIs, so that it can accelerate its application modernization and cloud migration programs.

Discover APIs for Asset Tagging: CloudVector automatically and continuously discovers all enterprise APIs, so that admins can tag their assets. This enables organizations to identify which APIs are sensitive and to prioritize which services to transform first or to migrate together.

Identify API Ownership and Access Controls: Determine who is responsible for each API and if its access is protected by an identity and access management (IAM) solution to ensure application uptime and data security.

Assist Data Tracing through Data Layer Inspection: CloudVector enables organization to identify interconnections between APIs and data by inspecting APIs at the data layer with visibility into what type of data is being exchanged, who it is coming from, and where it is going.

Application modernization and cloud migration begins with CloudVector Enterprise Edition – its deep API inspection delivers the insights organizations need to transform monolithic on-premise applications into cloud-base microservices. This runtime visibility can identify APIs – deep at the data layer — that have slipped through documentation or have evolved to the point that documentation does not match what is deployed in production. The ability to quickly and seamlessly document APIs enables organizations to rapidly onboard API gateways to apply specific rules and security controls.

CloudVector Enterprise Edition applies similar rules and security controls to monitor APIs for behavioral anomalies and to protect data from breaches. CloudVector Enterprise Edition enables organizations to automatically and continuously discover its entire API inventory, collect its API parameters, and analyze risk metrics. **CloudVector Enterprise Edition enables security practitioners to know the unknown, so they can protect what matters most: its valuable enterprise data.**