ENVIRONMENTAL SEPARATION

ISOLATE APPLICATION ENVIRONMENTS WITH ONE SIMPLE, NATURAL-LANGUAGE POLICY

Enterprises need to separate operating environments such as development, test, and production during the software development life cycle. Environmental separation using network constructs like VLANs, subnets, zones, and IP addresses is cumbersome. Illumio Adaptive Security Platform (ASP)™ simplifies environmental separation without network dependencies.

ENVIRONMENTAL SEPARATION

Before Illumio

- Static network constructs (VLANs, subnets, zones, etc.) make it hard to account for application changes

- Risk of manual errors due to redundant or outdated firewall rules and reconfigurations of networks

- No control over the network in public cloud—hard to dynamically isolate application environments

After Illumio

- Isolate application environments without network dependencies

- Nano-segment applications down to every workload with fine-grained policies to control all interactions

- Security automatically adapts to changes in application, environment, and location

- Instantly encrypt data in motion (IPsec) between any Linux/Windows workloads, across any environment

Figure 1: Separating application environments with static network constructs is cumbersome.

*Figure 2: Illumio ASP separating the development ordering application from the rest of the data center.*

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RELATED ASSETS

For additional information on separating environments, visit www.illumio.com/use-case-overview. You can also download white papers on this and other topics at www.illumio.com/resources.

The Illumio ASP architecture consists of lightweight Virtual Enforcement Nodes (VENs) installed on workloads residing in any data center or cloud. The VENs act as antennas and send telemetry information about the workloads to a Policy Compute Engine (PCE) that acts as the central brain of the platform. The PCE builds a graph of all dependencies between workloads and their applications and computes precise security policies that are instrumented into the native security capabilities (iptables or Windows Filtering Platform) in every workload. Anytime applications or environments change, Illumio ASP automatically adapts by recomputing and updating the policies.
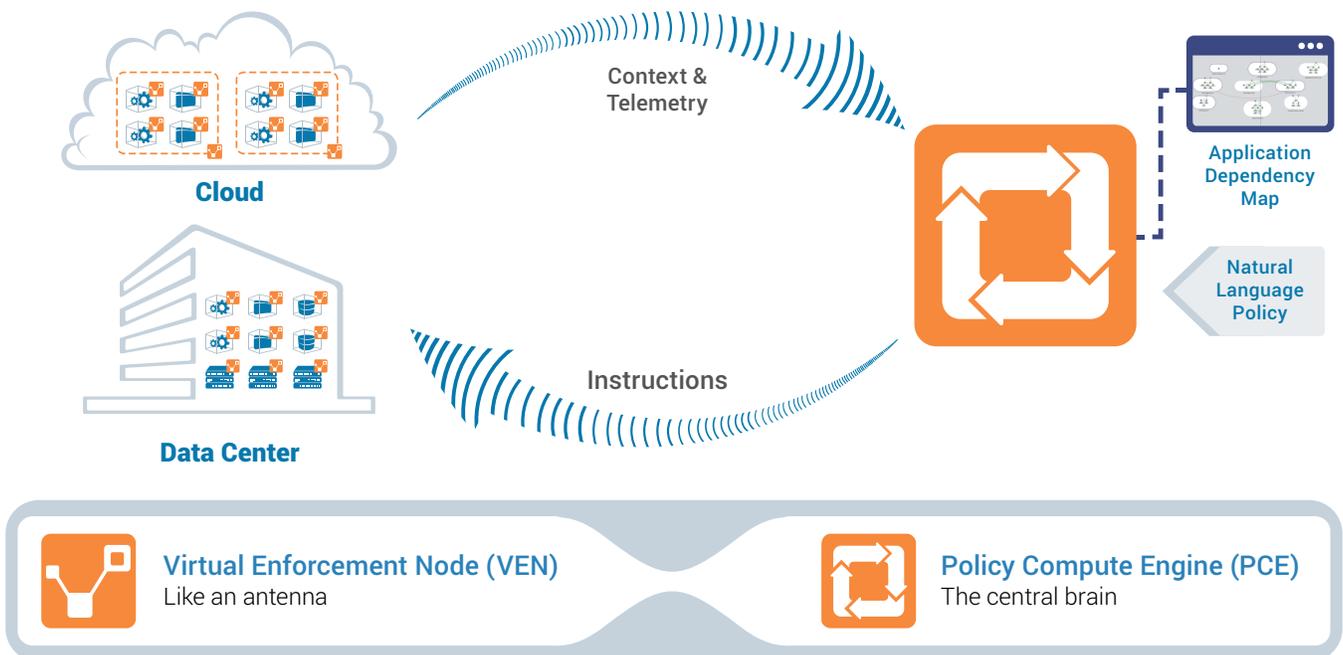
ABOUT ILLUMIO

Illumio, the leader in micro-segmentation, prevents the spread of breaches inside data center and cloud environments. Enterprises such as Morgan Stanley, BNP Paribas, Salesforce, and Oracle NetSuite use Illumio to reduce cyber risk and achieve regulatory compliance. The Illumio Adaptive Security Platform® uniquely protects critical information with real-time application dependency and vulnerability mapping coupled with micro-segmentation that works across any data center, public cloud, or hybrid cloud deployment on bare-metal, virtual machines, and containers. For more information about Illumio, visit www.illumio.com/what-we-do or follow @Illumio.

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CONTACT US

For more information about Illumio ASP and how it can be used to achieve environmental separation, email us at illuminate@illumio.com or call 855-426-3983 to speak to an Illumio representative.

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