

# RINGFENCING HIGH-VALUE APPLICATIONS

## SECURE CRITICAL BUSINESS APPLICATIONS AND SIMPLIFY COMPLIANCE WITH NANO-SEGMENTATION<sup>SM</sup>

Enterprises need to protect high-value applications handling intellectual property, non-public financial data, legal documents, Hadoop data, or regulated personal information. The Illumio Adaptive Security Platform (ASP)<sup>TM</sup> helps enterprises secure their most valuable applications and data, wherever they are located.

### Mitigating Risks for HVAs

#### Before Illumio

- Existing security solutions are coarse-grained and leave open a large attack surface
- Security policies don't automatically adapt to application changes
- Businesses must make a tradeoff between security posture and OpEx costs

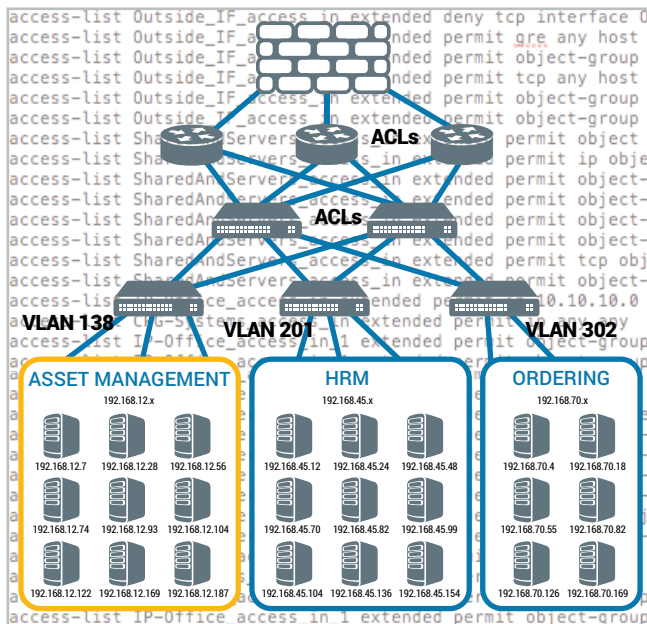


Figure 1: Applying traditional perimeter security to critical applications running within dynamic and distributed environments is increasingly complex, ineffective, and produces a static security posture.

#### After Illumio

- Nano-segment secure applications without the complexity of network constructs or extra costs
- Seamless security that keeps policies uniform across data centers and clouds
- Security automatically adapts to application changes

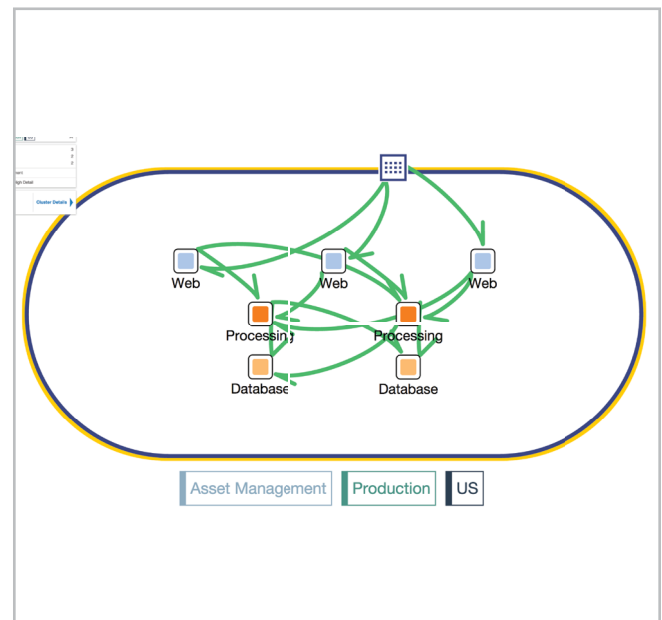


Figure 2: Illumio ASP isolating and securing (ringfencing) a highly confidential asset management application.

## Meeting Compliance Requirements

### Before Illumio

- Lack of visibility to workloads and traffic flows slows down security decision making and audits
- Security policies need to be manually adjusted or reconciled when apps change
- No policy-based encryption of data in motion

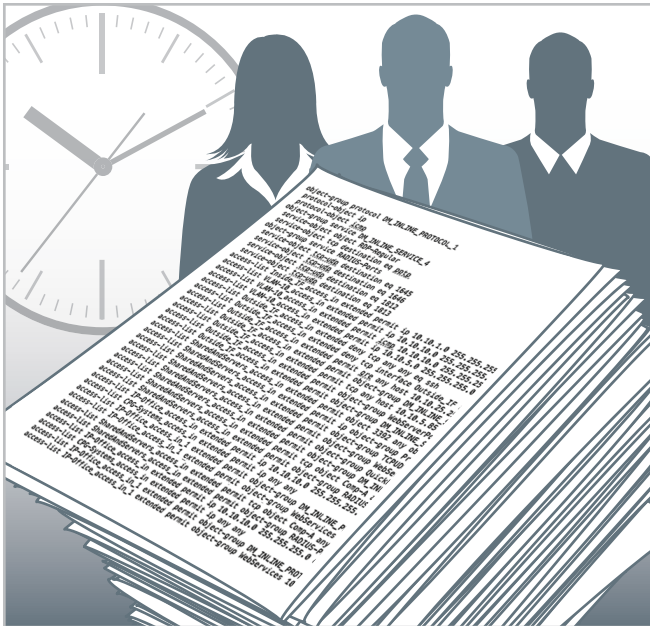


Figure 3: Organizations lack visibility of traffic flows and use static, complex network constructs (e.g., IP addresses, subnets, VLANs, security zones) to segment compliance environments.

### After Illumio

- Rapidly meet PCI, HIPAA, or other compliance requirements
- Visualize and understand environments that need to comply with regulations
- Encrypt data in motion in a single click
- Maintain compliance continuously and automatically with security that adapts to application changes

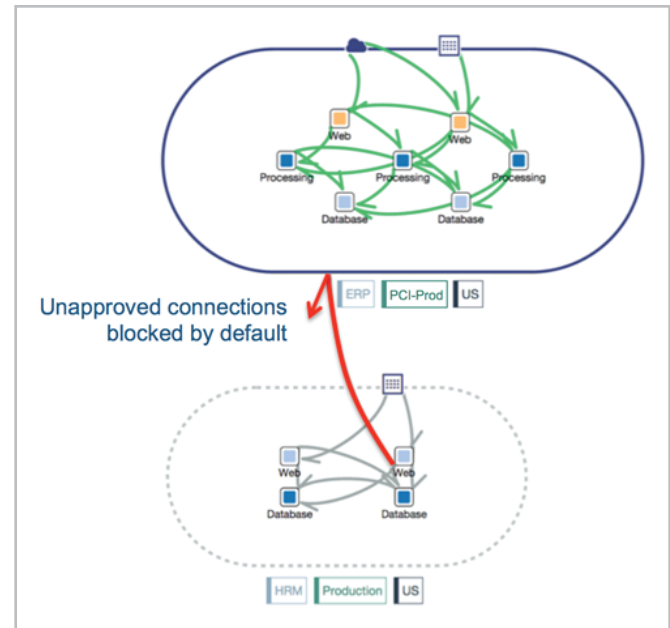


Figure 4: Illumio ASP securing a PCI environment with complete visibility of traffic flows.

## SECURING BIG DATA APPLICATIONS

### Before Illumio

- Perimeter-based security leaves data nodes unprotected
- Massive data volumes can overwhelm chokepoint devices, requiring expensive hardware
- Static, network-based controls are problematic when auto scaling big data clusters

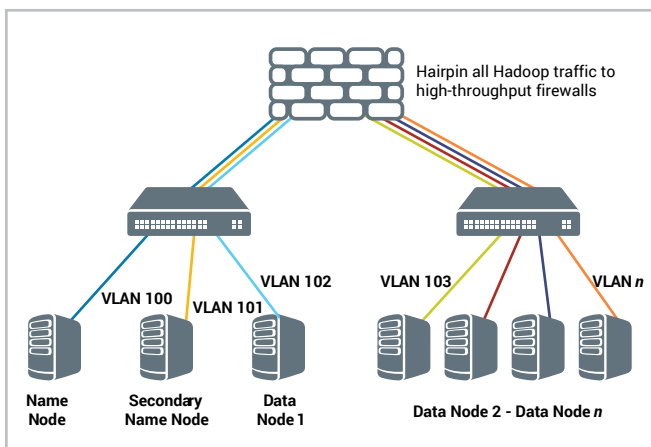


Figure 5: Interior nodes of big data applications are left unprotected due to scalability and performance challenges.

### After Illumio

- Complete visibility to big data (e.g., Hadoop) traffic flows
- Secure big data beyond the perimeter
- Nano-segmentation<sup>SM</sup> for data nodes eliminates the need for costly high-throughput firewalls
- Security scales with your data

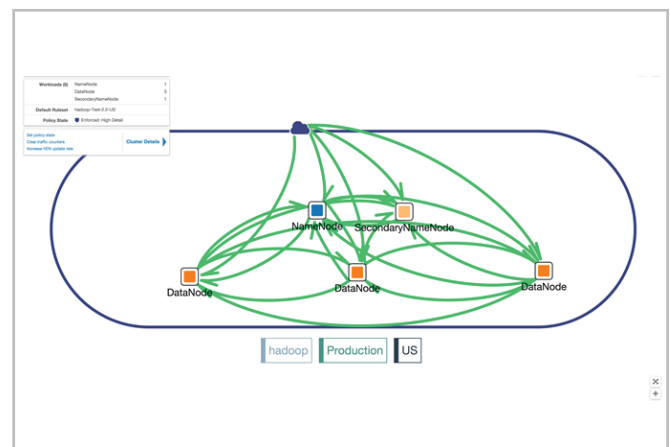


Figure 6: Illumio ASP securing a Hadoop application.

## RELATED ASSETS

For additional information on securing high value applications, visit [www.illumio.com/use-case-overview](http://www.illumio.com/use-case-overview). You can also download white papers on this and other topics at [www.illumio.com/resources](http://www.illumio.com/resources).

## 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](http://www.illumio.com/what-we-do) or follow [@Illumio](https://twitter.com/Illumio).

- [Engage with Illumio on Twitter](#)
- [Follow Illumio on LinkedIn](#)
- [Like Illumio on Facebook](#)
- [Subscribe to the Illumio YouTube Channel](#)

## CONTACT US

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

Illumio, Inc. 920 De Guigne Drive, Sunnyvale, CA 94085 Tel (669) 800-5000 [www.illumio.com](http://www.illumio.com)

Copyright © 2018 Illumio, Inc. All rights reserved. This document is protected by U.S. and international copyright and intellectual property laws. Illumio's products and services are protected by one or more U.S. and international patents listed at <https://www.illumio.com/patents>. Illumio® is a trademark or registered trademark of Illumio, Inc. or its affiliates in the U.S. and other countries. To review a list of Illumio's trademarks, go to <https://www.illumio.com/trademarks>. Third-party trademarks mentioned in this document are the property of their respective owners.