NUTANIX

Protecting against Ransomware in a Hybrid Cloud World

Gregor Davidson CISSP
Solutions Architect - NetSec
gregor@Nutanix.com

Hybrid cloud is today's operating model of choice

92%

Selected multi cloud



as their ideal IT

operating model¹

Say "security" is top concern[†]





Average Total Cost of a Data Breach

Claimed they would stop doing business after data breach

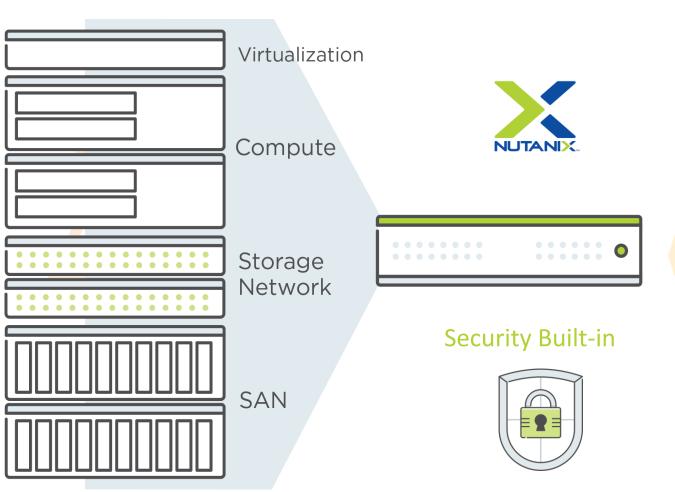




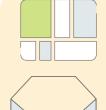


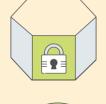
A Better Approach to Security

Infrastructure that simplifies operations and security

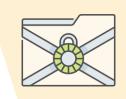








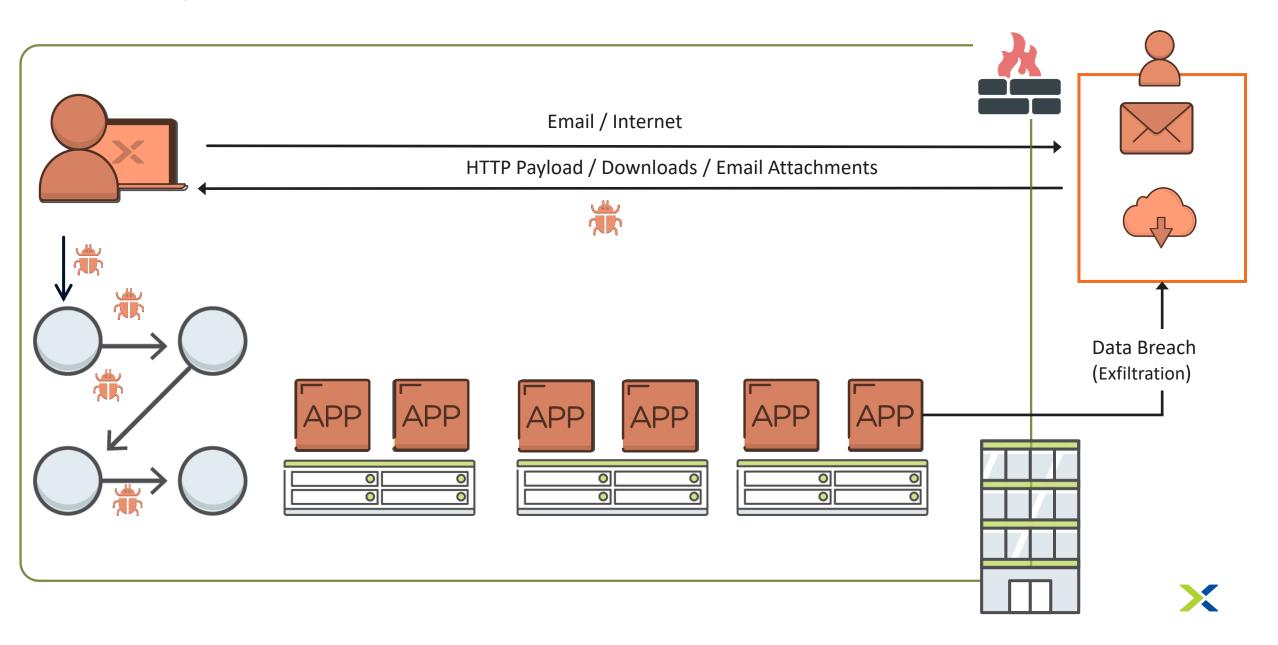




- **Continuous Compliance**
 - ✓ Beam
- **Micro-segmentation**
- **Network Segmentation**
- Authentication, RBAC, Auditing
- **Cluster Lockdown**
- 1-Click Security Patching
- **Security Configuration Management Automation**
- **Secure Hypervisor**
- **Unstructured Data Analytics**
- **Native Key Manager**
- **Data-at-Rest Encryption**
- **Data Protection**



Anatomy of a Modern Attack



Why does Microsegmentation help?

APPLICATION-CENTRIC SECURITY / ZERO TRUST



Insider Incidents Up ~50%

The volume of incidents due to insiders continues to rise.

More than half are due to negligence vs malice.

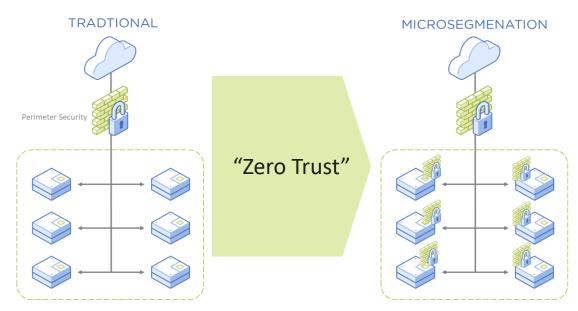
"The Real Cost of Insider Threats in 2020", Ponemon Institute



75% Don't Focus on Prevention

A balanced approach to the entire security lifecycle is required. Prevention, Detection, Containment, and Recovery.

'Preventing Cyberattack Penetration Can Save Enterprises Up To \$1.4 Million", Ponemon Institute



Zero Trust Models are Needed

"Organizations should not automatically trust anything inside or outside its perimeters..."



John Kindervag, former principal analyst at Forrester Research

Insights and Monitoring



MONITORING AND VISIBILITY – multi-cloud dashboards, asset inventory, reporting, and alerts



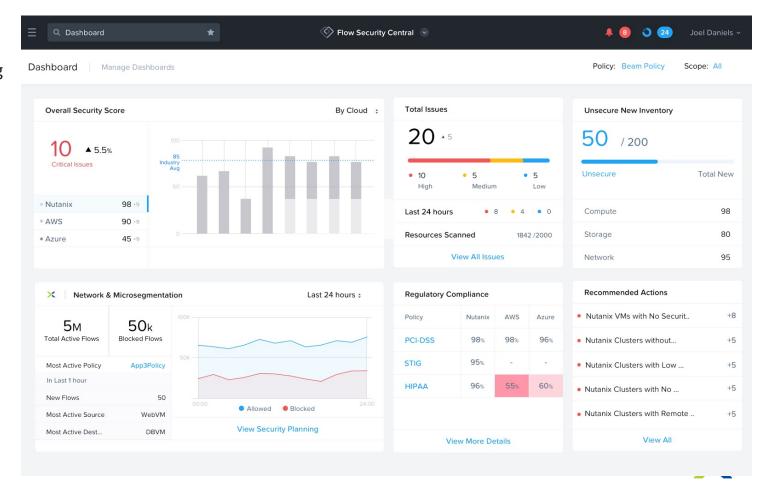
AUDIT AND REMEDIATION – insights on Nutanix environments and public clouds using real-time, automated security audits



COMPLIANCE – continuously monitor your environment, automate compliance checks, and address vulnerabilities



SECURITY PLANNING – detailed traffic visualization and workload categorization for microsegmentation



File Storage is a key workload



















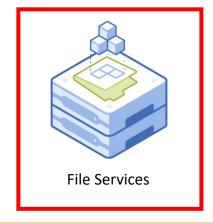








VM Services





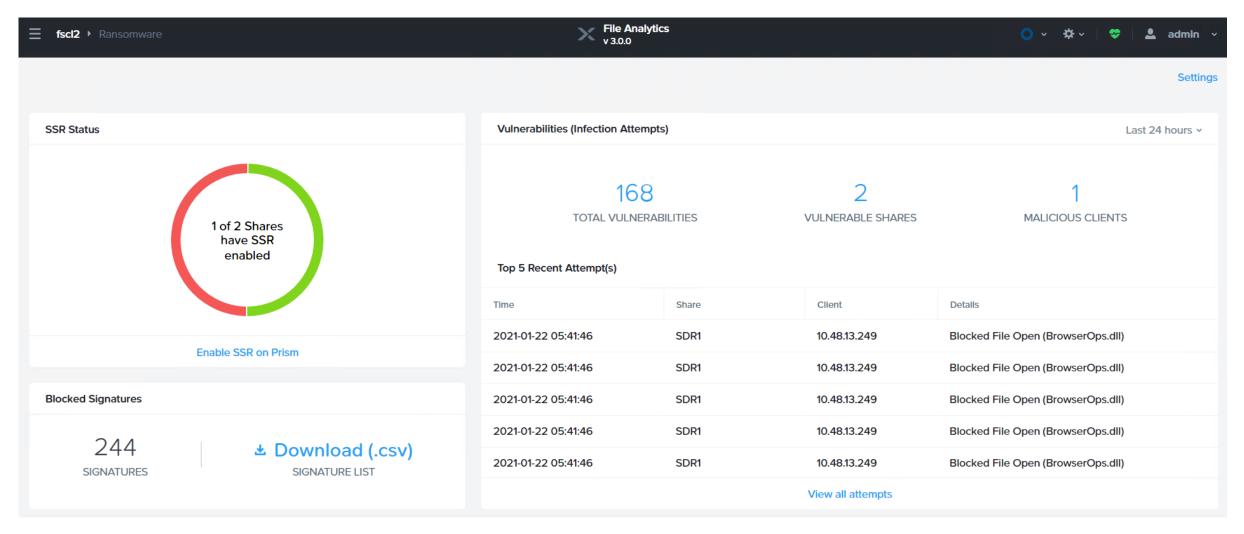


Block Services

Nutanix Cloud Platform



Ransomware Dashboard



Object Services for Immutable Storage





















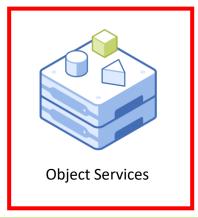














Block Services

Nutanix Cloud Platform



Protect Backups From Ransomware

Immutable Objects WORM storage

for critical data and backups







Enable WORM at a bucket level

Strict Compliance WORM – cannot be disabled

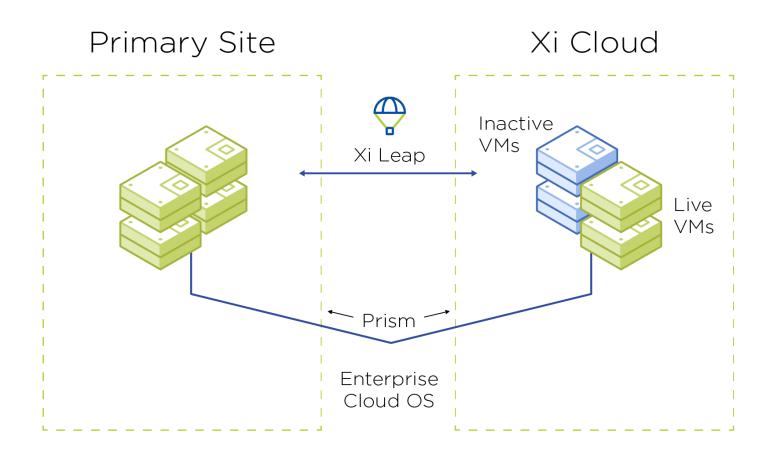
WORM duration may be extended (but not reduced)

Object level lock

Independently validated (by Cohasset)



Natively Integrated Cloud DR



Eliminate the need for dedicated DR site

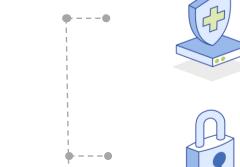
Subscription service managed from Prism

One-click failover, failback and testing



Keep Your Data and **Applications Safe**

With a defense in depth approach, Nutanix provides a secure and robust private cloud platform along with multicloud services to protect your critical applications and data



Secure the Platform with automated and self healing secure configurations



Protect data with native data-at-rest encryption, key management, and access control



Prevent breaches through network segmentation and application policy controls



Detect and Remediate security configuration errors on premises or in public clouds



Audit and Report on regulatory compliance policies such as PCI-DSS, HIPAA, NIST and more



Thank You