



THE
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Crypto & the Cloud

“Encryption is becoming a fundamental technology for protecting data in the cloud.”

—The Cloud Security Alliance



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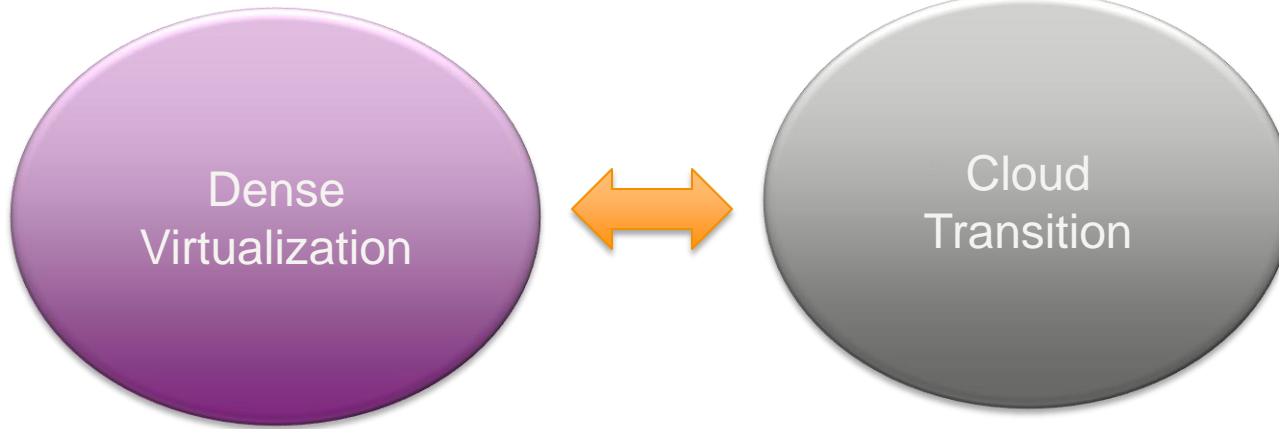
The Cloud is fundamentally changing IT



- New service capabilities
- Greater flexibility
- Increased infrastructure elasticity
- Reduced costs



Virtualization & Cloud Mania

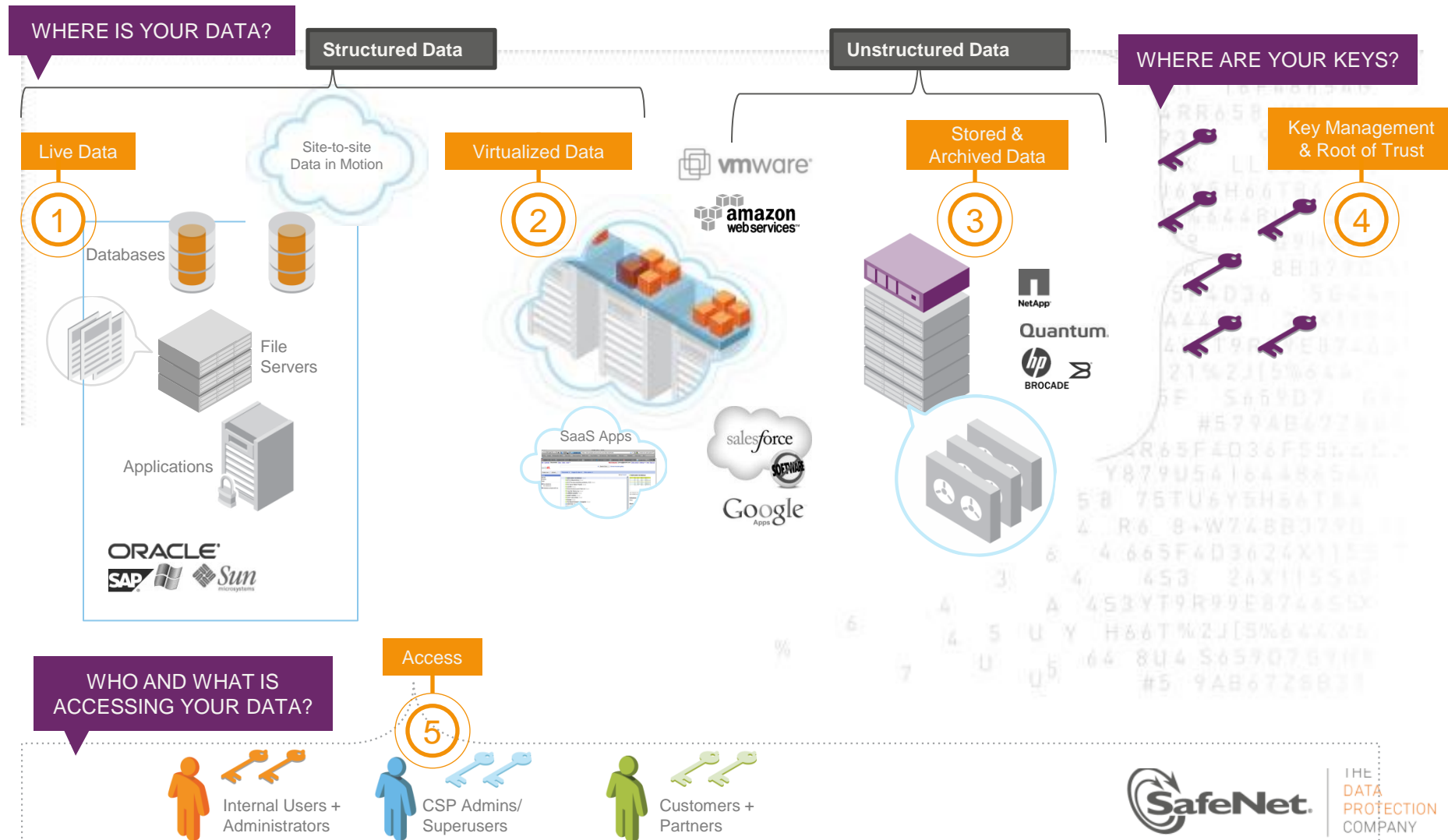


- 39.4% of all servers virtualized
- Average enterprise has 470 virtual servers and 200 are mission critical
- By 2018, 86% of workloads will be running in virtual machines

- 60% of organizations with virtualization have private or public cloud computing in pilot or production
- 70% have VDI in pilot/production

While IT is being pushed towards virtualization...

Sensitive Data is Everywhere. *So are We.*

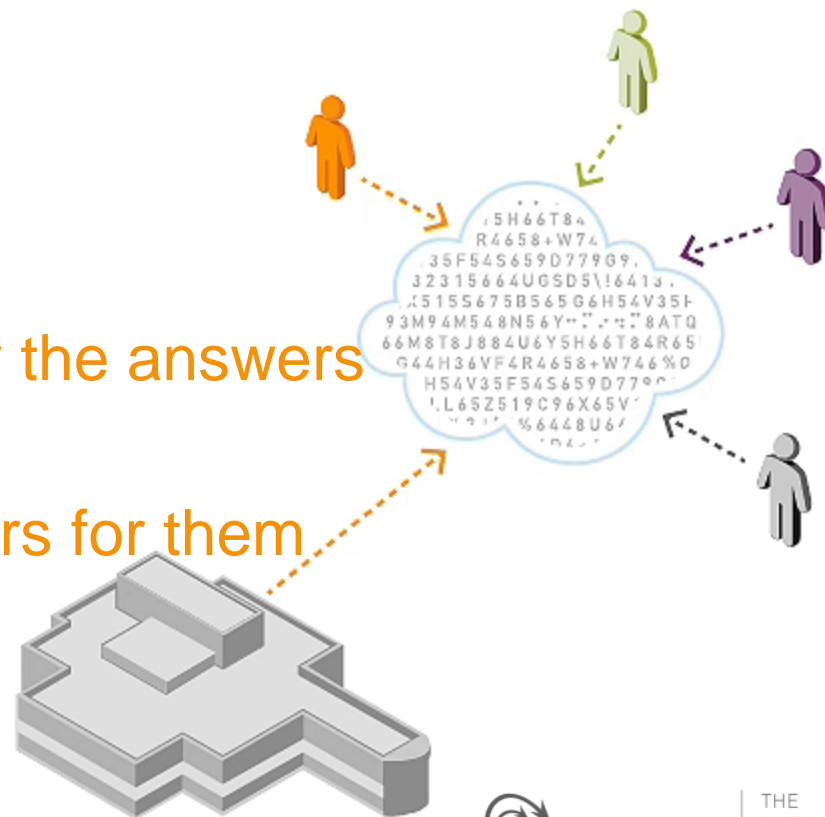


Data sprawl challenges

- Do you know where your data is?
- Which data do users have permission to access?
- Who ACTUALLY accesses your data?
- When is your data accessed?

Why should you care?

- Your customers need to know the answers to these questions
- Their auditors demand answers for them
- Their customers expect their data to be protected



Data Security Gaps Remain

How secure is my data in a virtualized world?

VMs are easy
to copy (and steal).



OS

OS

OS

OS

OS

OS

OS

...

VMs are easy
to move.



Supervisor

VMs introduces a new class of privileged users and administrators - *server, storage, backup, and application* - all operating independently.



Storage



Snapshots

Backup

VMs have multiple
snapshots and backups of
data.



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ProtectV: Unique Advantages

Freedom to move to Virtualization and Cloud

The **FIRST** trusted “lockbox”

- > Complete encryption of VMs and storage
- > Granular access control at the data level
- > Even data stored in the OS partition is protected!

Customer Benefit: Complete isolation and separation of duties

The **ONLY** high-assurance solution

- > On-premise, hardware-based key management
- > Launch of a protected VM is enabled only for authorized and authenticated users

Customer Benefit: Undisputed control/proof of ownership for data and keys

The **DEEPEST** visibility into cloud security

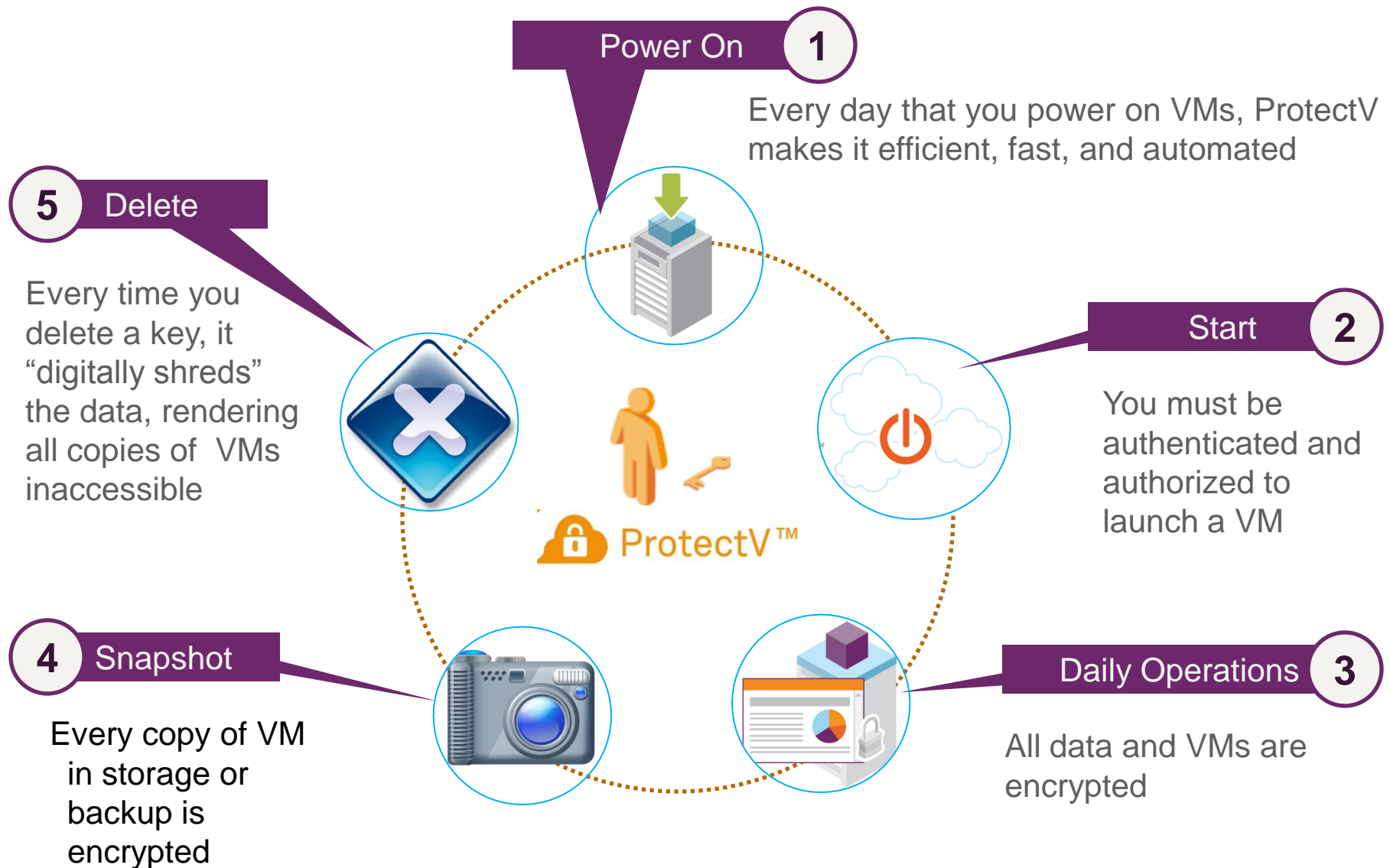
- > Illegitimate/hidden copies of data are rendered useless
- > Trusted audit logs for access events

Customer Benefit: Single and centralized policy enforcement and audit point



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ProtectV: Secures the Entire VM Lifecycle



ProtectV: How it works

ProtectV secures regulated data on VMs and storage volumes in both private and public clouds.

1

ProtectV Manager

ProtectV Manager is a virtual machine that runs as an AWS AMI or as a VM in a VMware environment. Configure ProtectV Manager by creating users and permissions.

2

ProtectV Client

Install ProtectV Client on your VMs. Select which servers and storage volumes you want to encrypt and create your policies.

Protected volumes



Protected volumes

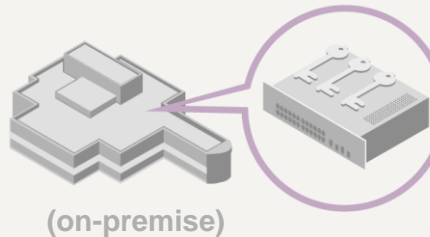


Protected virtual machines

3

KeySecure

Key Management



Install KeySecure on-premise as your root of trust for managing the lifecycle for all key types across your data centers, private and public clouds.



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ProtectV: Environments Supported

- ProtectV is a virtual server solution
- It currently supports the following environments:
 - > Amazon Web Services EC2
 - > Amazon Web Services VPC
 - > VMware vCenter



ProtectV



Categories: Management, Security, Servers, Datacenter Products, VMware vCenter Orchestrator, VMware vCenter Server, VMware vShield App, VMware vSphere, and Blueprints



VMware vCenter Server (4.1.x), ProtectV(1.0.1)

Customer Ratings

Average Rating
★★★★★

[Log in to Rate](#)

★★★★★ 1
★★★★☆ 0
★★★☆☆ 0
★★☆☆☆ 0
★☆☆☆☆ 0

Safenet ProtectV enables organizations to protect their sensitive business critical virtual assets on VMware's ESX infrastructure from theft and exposure.



[Overview](#) [Tech Specs](#) [Support](#) [Partners](#) [Resources](#)

Highlights:

- Complete encryption of virtual machines and storage volumes
- High-assurance solution for data compliance provide undisputed command and proof of ownership for data and keys, protecting data and preventing super-user abuse.
- Deep visibility into cloud security through a single and centralized policy enforcement and audit point.

Description:

Safenet's proven encryption and enterprise key management solutions turn any cloud environment into a trusted and compliant environment by solving the critical challenges of data governance, control, and ownership - no matter where you store your data.

Data Protection. ProtectV bridges the physical to virtual security gap providing adaptive virtualized security controls that allows organizations to secure their data and maintain a consistent security policy as they transition to virtual datacenters and into the cloud. ProtectV ensures cloud-ready security. With complete encryption of virtual machines and storage volumes coupled with pre-launch authentication, security teams can properly isolate sensitive assets and maintain ownership of their data always—even in shared, multi-tenant clouds. Data Compliance. ProtectV combined with Safenet KeySecure provides a high-assurance data compliance solution for undisputed command and proof of

Customer Reviews

[Log in to Review](#)

No reviews yet.

Getting Started for Partners

Learn how to market your solutions on the VMware Solution Exchange.

[Learn More](#)

Post a Virtual Appliance

Learn how to create, market, and distribute your solution as a virtual appliance.

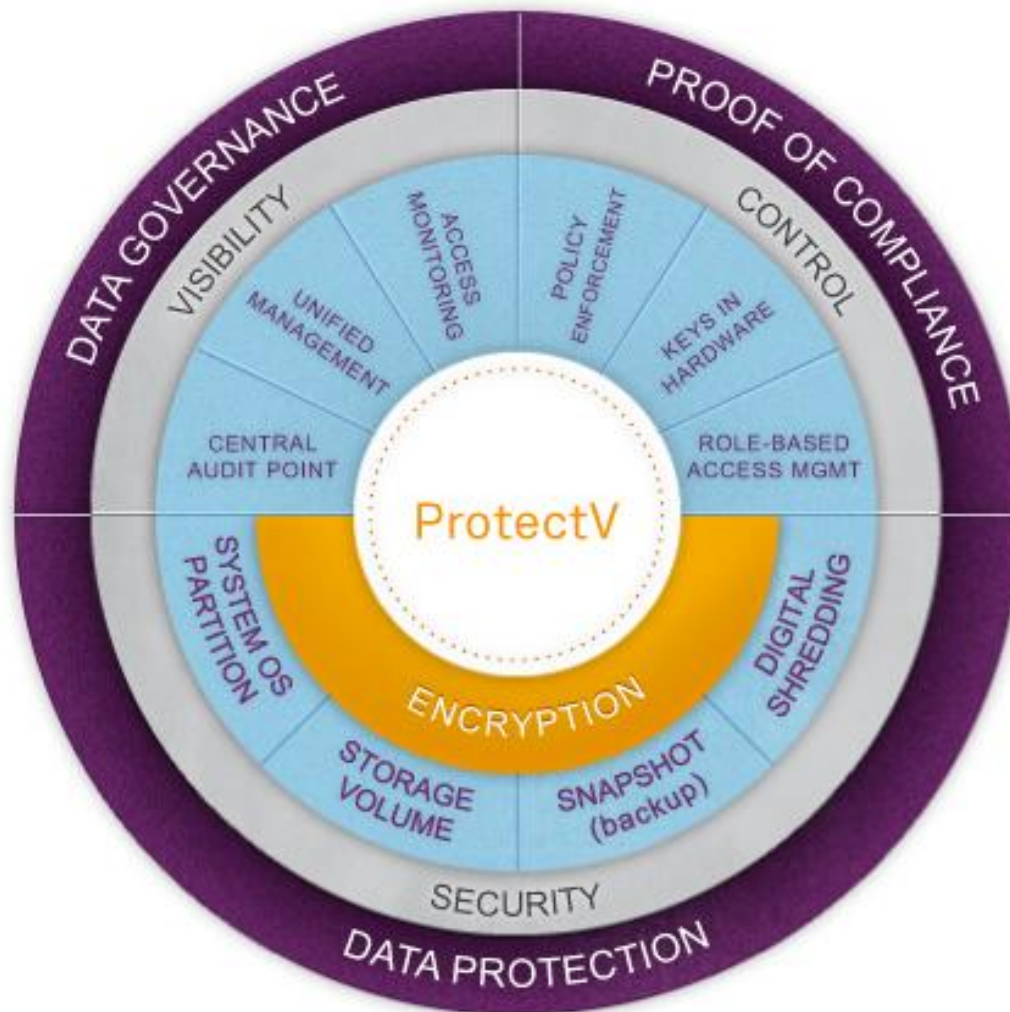
[Learn More](#)

Categories

Technology Type

[Application Deployment](#)
[Application Development](#)
[Application Performance](#)
[Application Virtualization](#)
[Backup and Availability](#)
[Connection Broker](#)
[Consumer Applications](#)
[Enterprise Applications](#)
[Management](#)
[Network](#)
[Operating System](#)
[Remote Device Virtualization](#)
[SaaS Applications](#)
[Security](#)
[Servers](#)
[Service/Hosting Providers](#)
[Storage](#)
[Thin Client HW](#)
[VMware vApp](#)
[Virtual Appliances](#)
[Industry Type](#)
[VMware Product](#)

ProtectV Summary: Feature, Function, Benefit



- FEATURES
- FUNCTION
- BENEFIT



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Next Gen Network-Based Storage Encryption

SafeNet StorageSecure

Benefits

- Compliant, Fast, Transparent, Cost Effective
- Meet regulatory requirements
 - FIPS 140-2 Level 3 validation meets PCI, HIPAA, and government data security requirements for data at rest
- No performance impact
 - Encrypt data at wire speeds
 - No impact to existing applications
 - Have no requirement for additional CPU overhead
- Ease of installation
 - Plug seamlessly into current IT environment
 - Realize zero downtime or disruption to workflow
 - No need for modifications to hosts, servers, applications, or forklift upgrades to storage
- Scalability
 - As data grows, scale cost-effectively



Features

- Low latency, wire-speed encryption and decryption engine
- Industry standard protocols
- Multiple 10GE interfaces
- 10Gbit Ethernet / jumbo frame
- Transparent network-based file and block encryption
 - NAS (CIFS, NFS) and IP-SAN (iSCSI)
- Encryption keys managed via KeySecure
- Clustering for high availability & Scalability

NAS based Storage Encryption

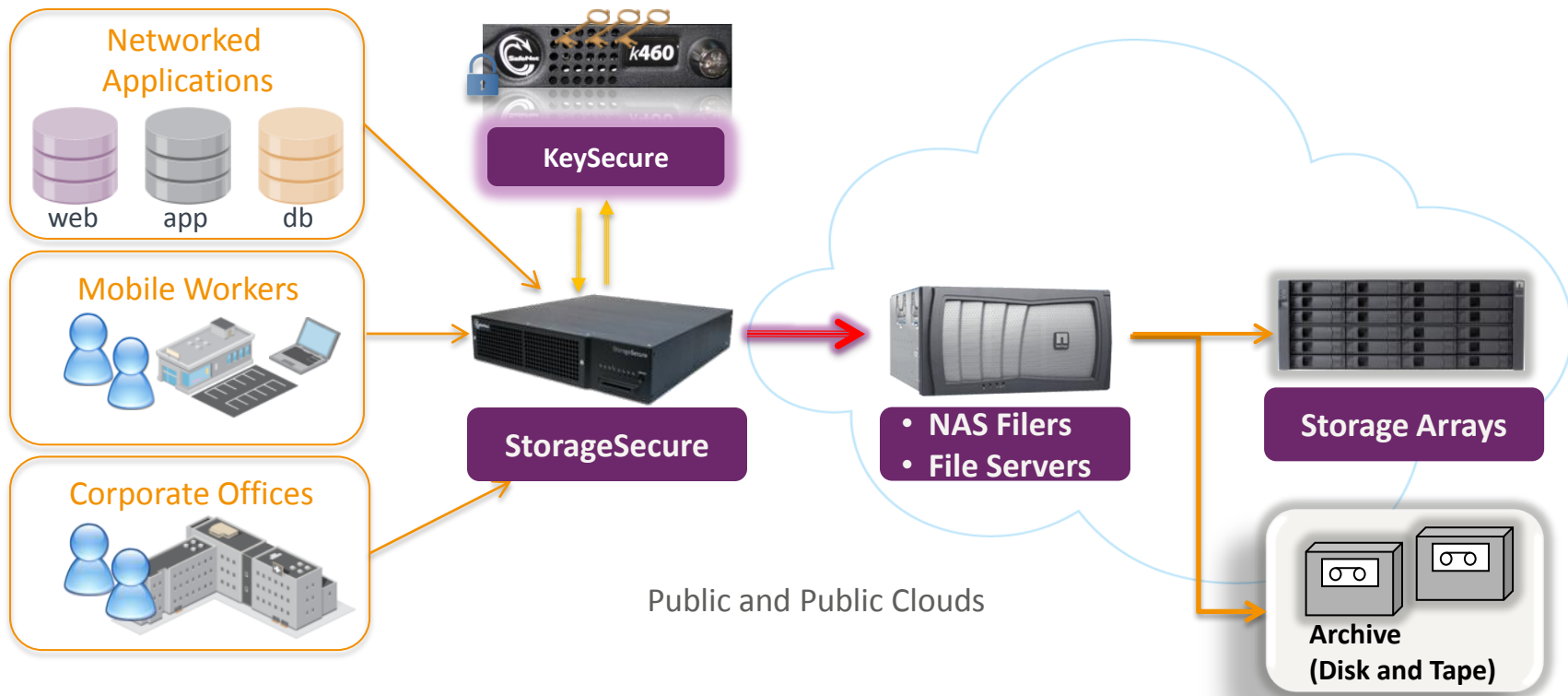
SafeNet StorageSecure and KeySecure

StorageSecure

Network appliance to encrypt data in storage devices

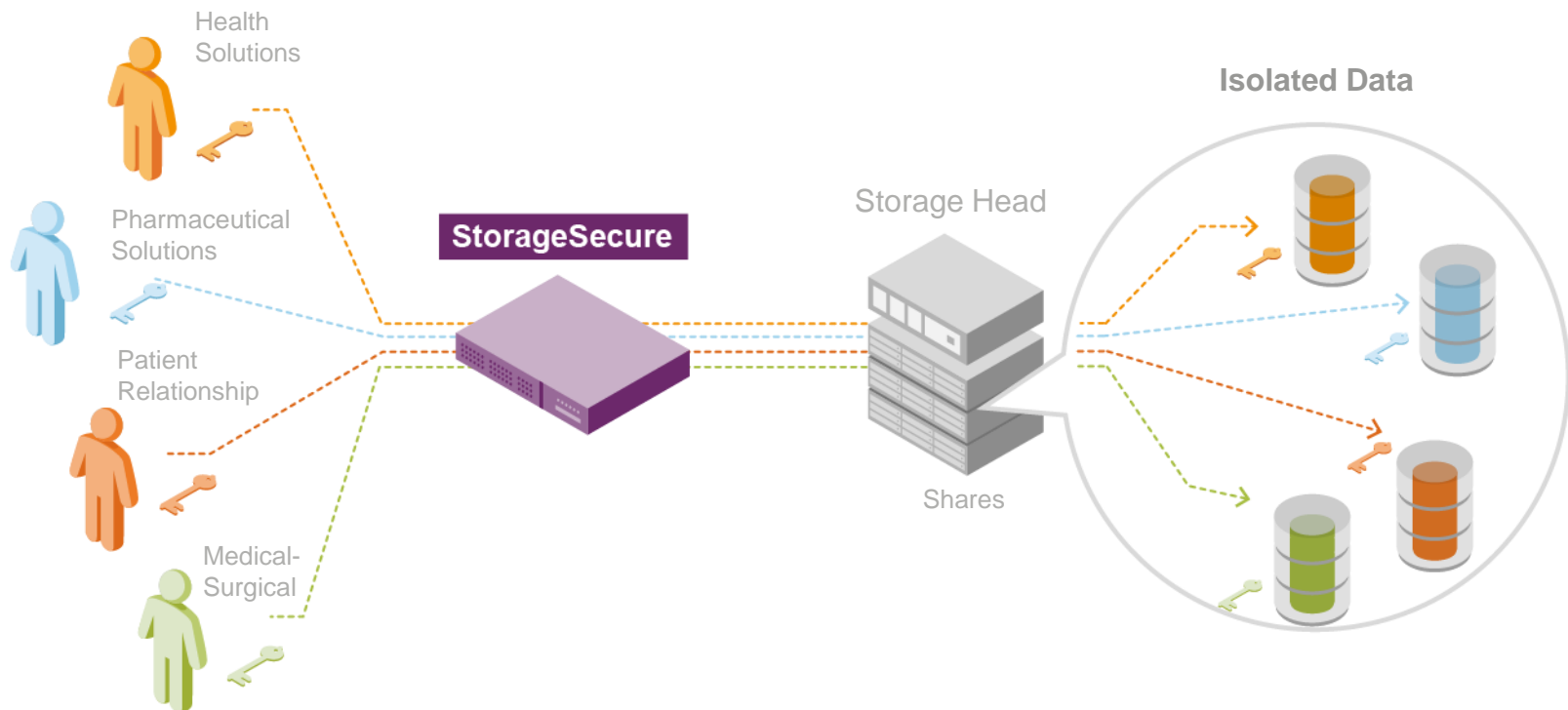
KeySecure

Enterprise key manager to manage the encryption keys

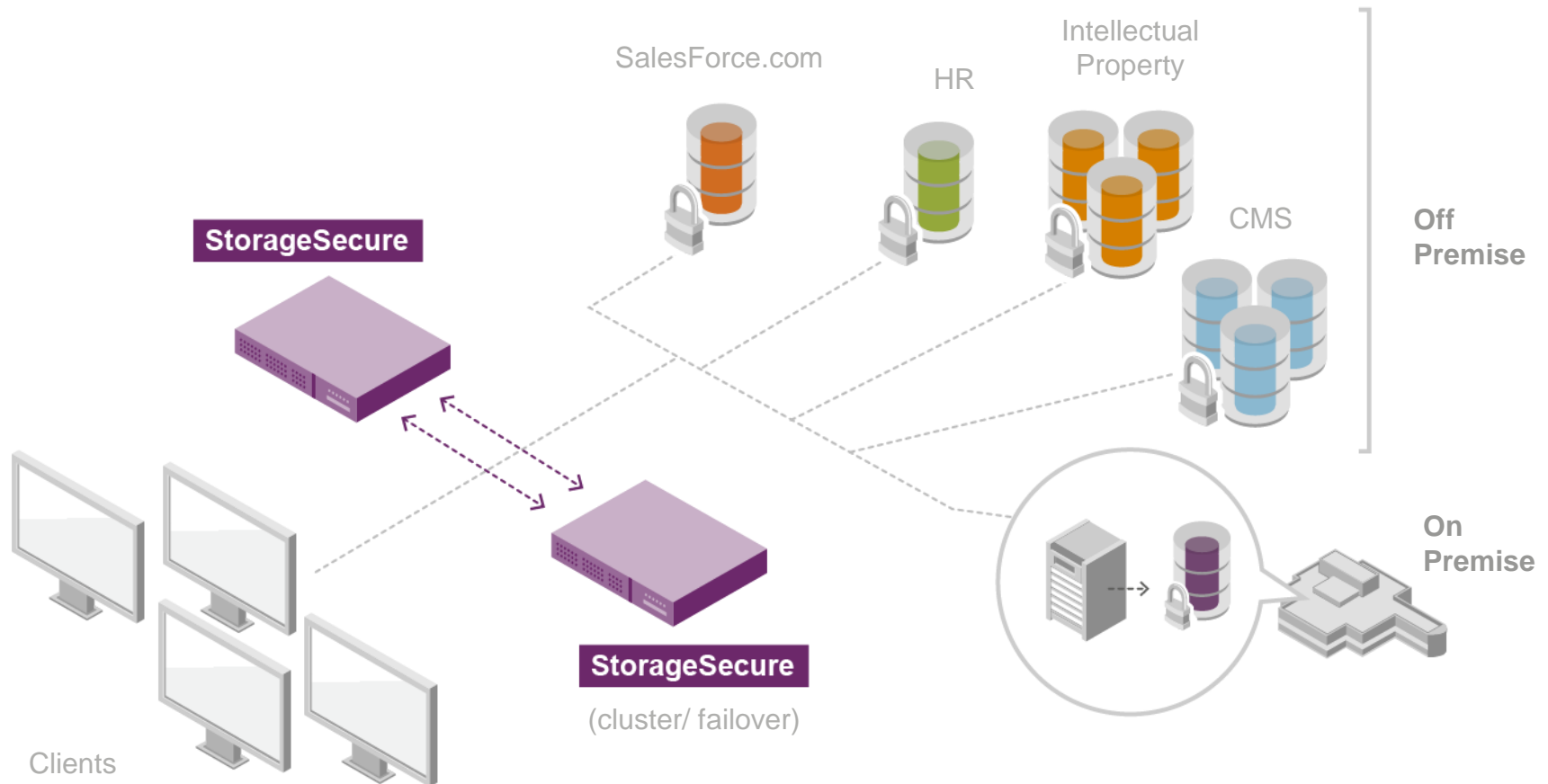


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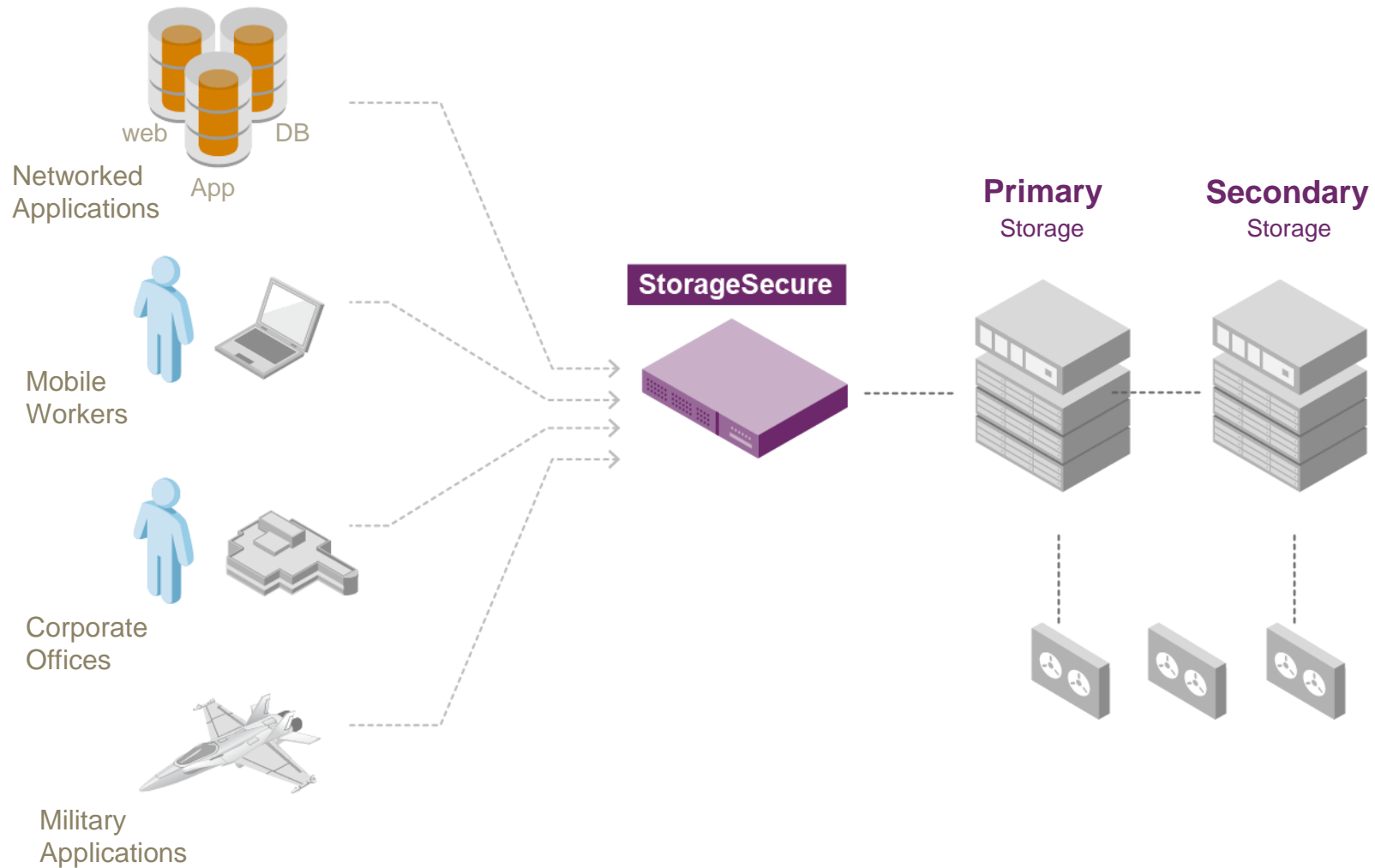
Isolate Data in Multi-tenant Environments



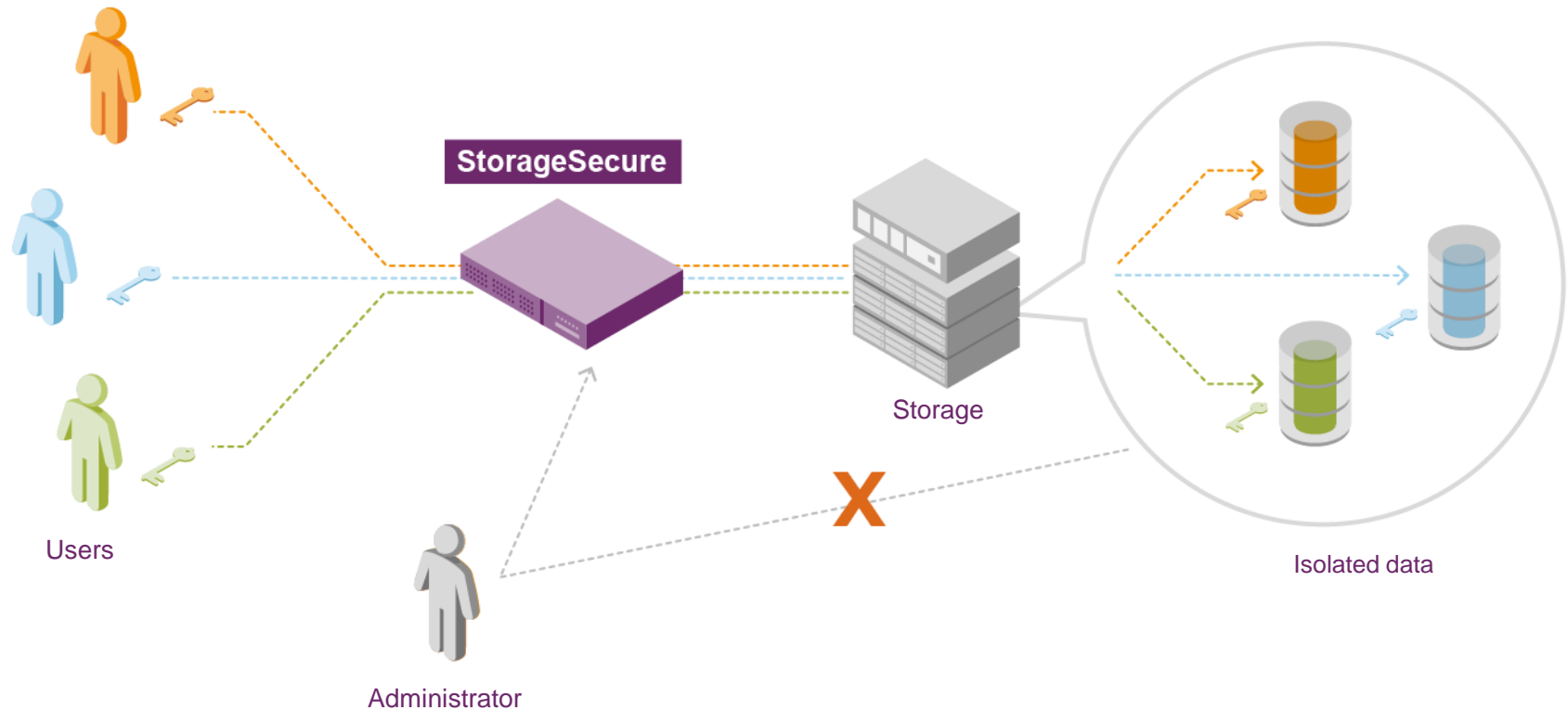
Complaint Data Protection



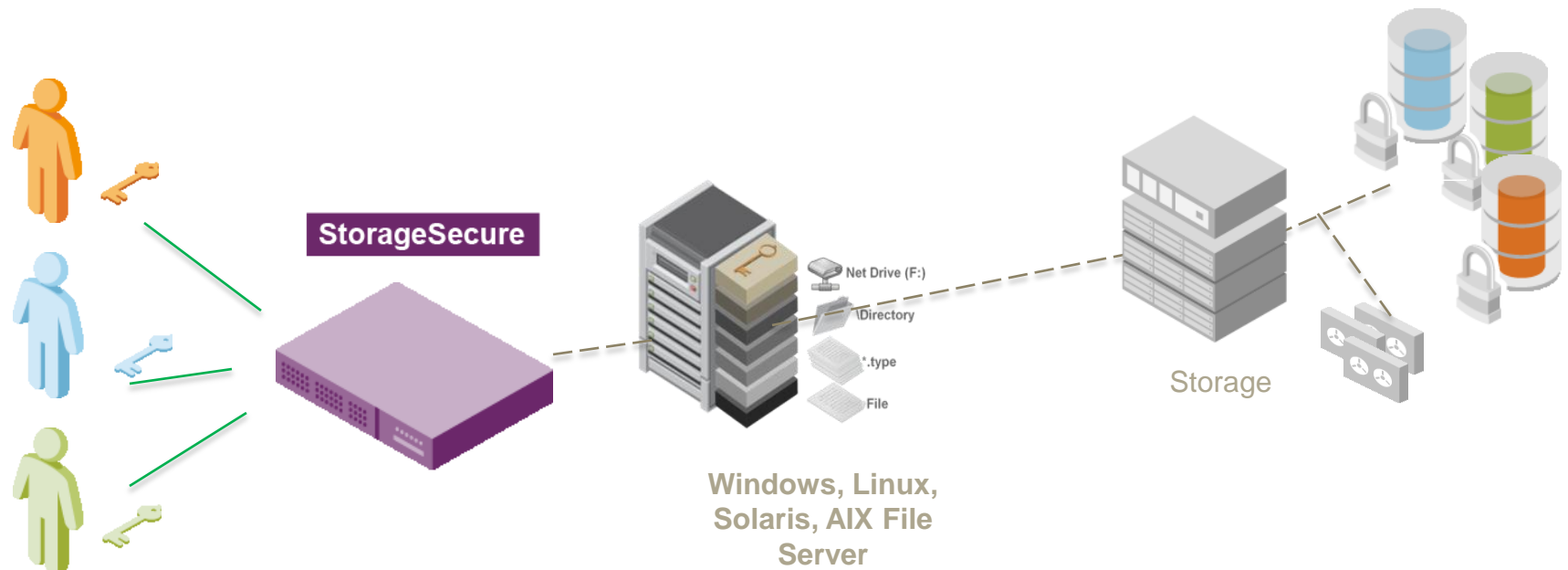
Archival Protection



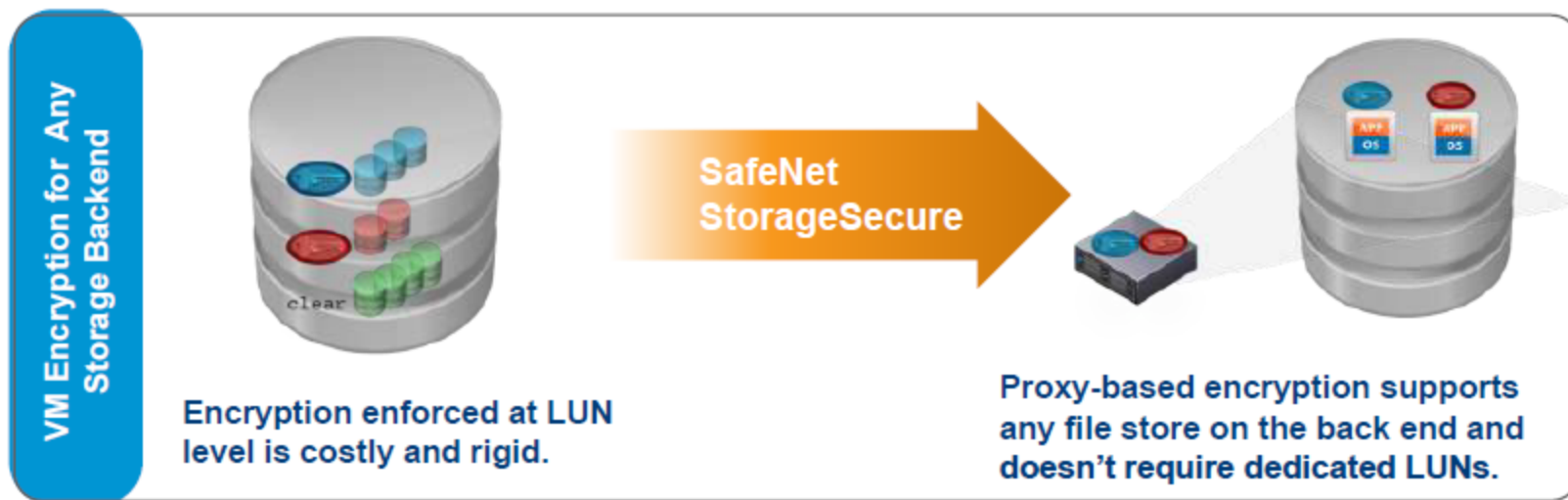
Privileged User Risk Mitigation



Protecting Backend SAN Environments



Protecting f.ex. VDI infrastructure



Securing Data in the Cloud



SafeNet helps organizations fully harness the business benefits of cloud services without making compromises in data security.

SafeNet enables trusted and secure migration to the cloud – with persistent data protection that follows you anywhere. Our solutions for the cloud helps organizations to:

- Protect
- Control
- Comply

No matter the environment - from private to hybrid to public clouds.



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Questions?



RACE TO VIRTUALIZATION WITH SAFENET AT VMWORLD



SAFENET @ VMWORLD 2012

Stand: S102 and NetApp Partner Pavilion D206

Date: 9-11 October

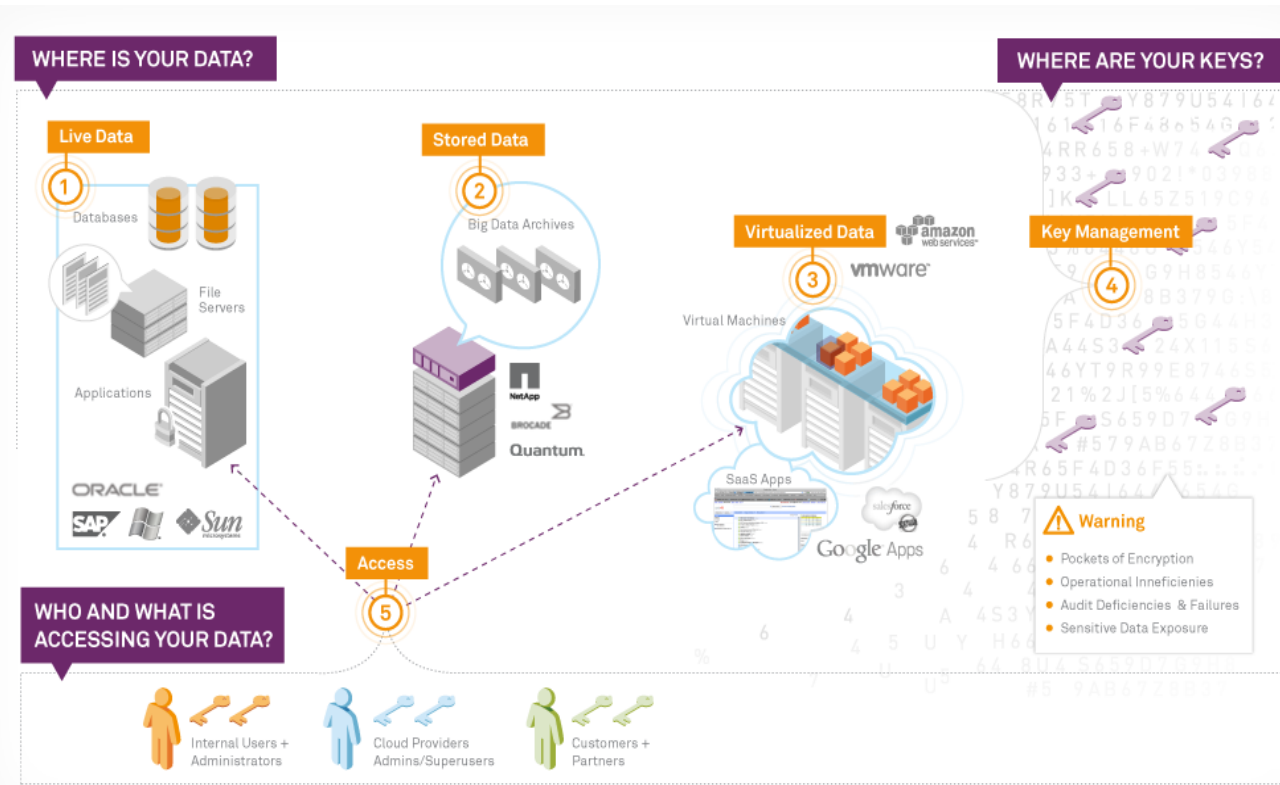
Location: Gran Via Barcelona

Please ask me and we can arrange a meeting or product demonstration



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Thank you!



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