

Symantec Endpoint Encryption Deployment Best Practices and Roadmap

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Encryption

Whole Disk Encryption

Baylor University

Waco, Texas



- Chartered in 1845
- Largest Baptist University in the world
- 15,000 Students
- 2,500 Full Time Employees
- Over 7,000 Baylor owned computers



Agenda

- 1 Background
- Deployment Lessons Learned
- 3 The Future
- 4 Q&A







Reasons for Encryption



- Offices have now become mobile
 - Laptops are the standard
 - Large percentage of data losses involve laptop theft/loss
- 46 states have enacted privacy legislation requiring notification if breached data is not encrypted
- Migration from using SSN did not eliminate old stores of information



2013 - The Year of the Mega Breach



- The total number of breaches in 2013 was 62% greater than in 2012
- 8 of the breaches reported in 2013 exposed over 10 Million Identities
- Roughly 552 Million Identities were breached in 2013
- The loss of a laptop continues to be the leading cause of a data breach



Types of Encryption: Overview



Manual

Tools that allow users to manually encrypt and decrypt files and folders

Automatic (Folder Level)

 Tools that allow users to define folders or virtual drives that are automatically encrypted

Whole Disk

 Boot time software that provides real-time encryption/decryption below the OS level. Encrypts the entire volume or disk



Why Symantec Drive Encryption



- Cross Platform (Mac, Windows, Linux)
- Centralized platform
- Proven encryption technology







Implementation



Installation

Manual vs. Automatic

Setting up central server

- Backup to an SFTP server, offsite rotation for server backup
- Runs great as a VM (1 CPU core, 2 GM ram)

Internal Q/A procedure

- Working SED into our system workflow
- Only disk encryption, not mail for most users



Data We're Concerned About



Texas Privacy Legislation

SSN, CC#, Driver's License, Bank Accounts

FERPA Records

PCI (Payment Card Industry)

Texas HB 300 and HIPAA



Risks to Success



Workstation Configuration

- Backups
- Screensavers
- Hibernation vs. Standby

Authentication Method

- Single Sign-on
- Unified authentication
- Separate Credentials

Administrative Tasks

- Handling forgotten passphrases
- Updating SED versions

Forensics\E-Discovery

System deployment



The Apple Challenge



- Apple will change the EFI in even minor patches
 - Means patching must be managed to prevent bricking
- New hardware generally requires latest OS
- Security patches only available for latest major release of an OS



Public Relations



- Administration Buy-in
- Thorough testing to up front
- Respond quickly to concerns
- Exhaustively test new versions
 - do not feel compelled to upgrade until testing is complete









- Over 1400 clients deployed
 - Of those over 90% are laptops
- Require all faculty/staff laptops be encrypted
- Include both Mac and Linux installations
- ½ FTE dedicated to Symantec Drive Encryption rollout and maintenance



In Retrospect



- Do we think we made the right choice?
 - Whole disk
 - Symantec Drive Encryption
- What would we have done differently
 - More resources
 - QA resources
 - Deployment resources
 - More realistic timelines
 - Make sure users understand the why of encryption

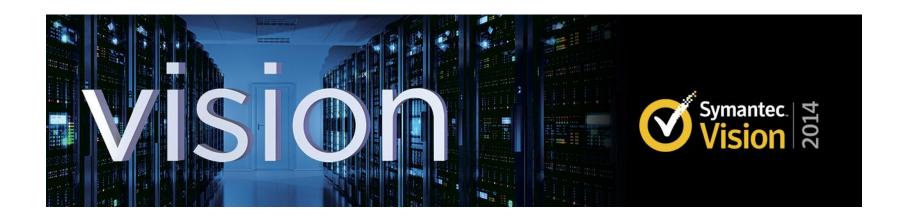


The Future



- Encryption included with software
 - OS (FileVault v2, BitLocker)
 - Databases (Oracle and MSSQL)
- Federal Privacy Legislation
- Opal v2 for managing hardware encryption





Symantec Encryption Portfolio Update

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Agenda

- 1 Current Portfolio
- 2 Encryption Trends
- 3 Symantec's Encryption Strategy
- 4 What's Coming
- 5 A Sneak Peak

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Symantec Encryption Portfolio

Endpoint Encryption



Renders data-at-rest inaccessible to unauthorized parties on devices such as laptops, removable media, desktops

Email Encryption



Protects email in transit and at-rest from unauthorized parties

File & Folder Encryption



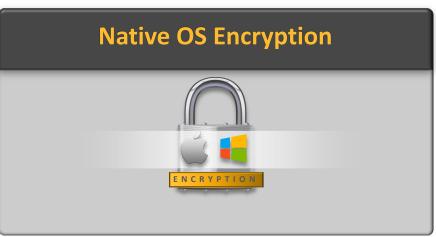
Protects individual files in transit and at-rest from unauthorized parties, allowing secure collaboration

Endpoint Management

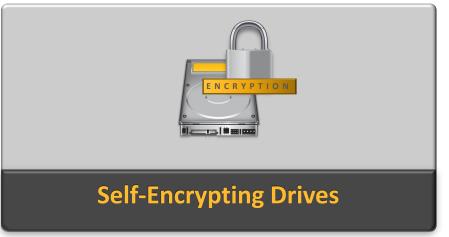
Renders data-at-rest inaccessible to unauthorized parties on devices such as laptops, removable media, desktops

Encryption Trends









Encryption Strategy

Enable customers to seamlessly protect sensitive information, wherever it resides, with Symantec Encryption



Single Endpoint
Encryption
Offering



3rd Party
Encryption
Management



Encryption
Center of
Excellence



Next Generation Encryption

Darwin 2nd Half CY14 (Projected)

The endpoint combination you've been waiting for...



Drive Encryption



Removable Storage

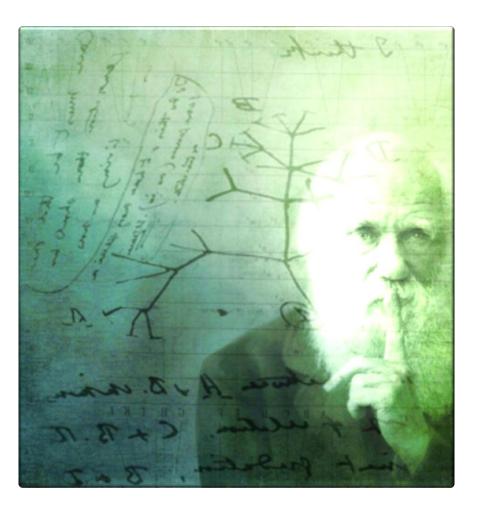
Encryption Management



Drive Encryption Removable Storage Encryption Management

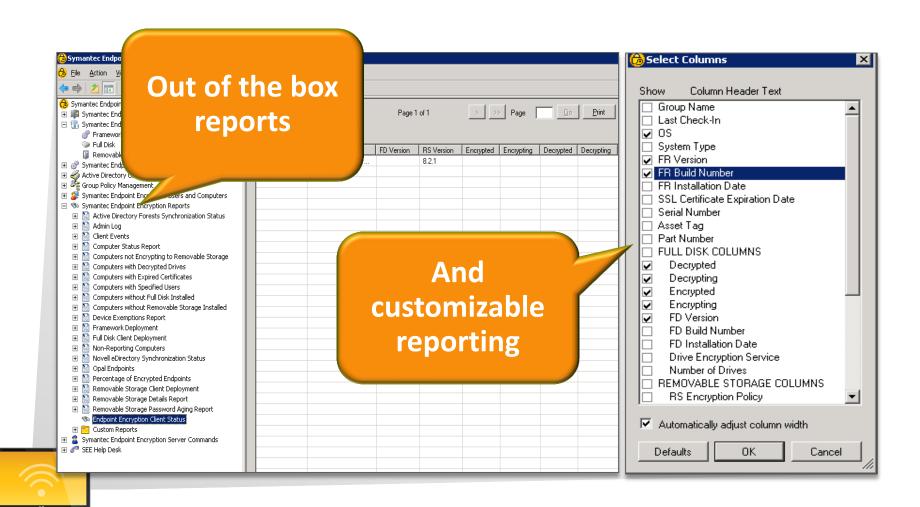


More Anticipated Highlights from Darwin



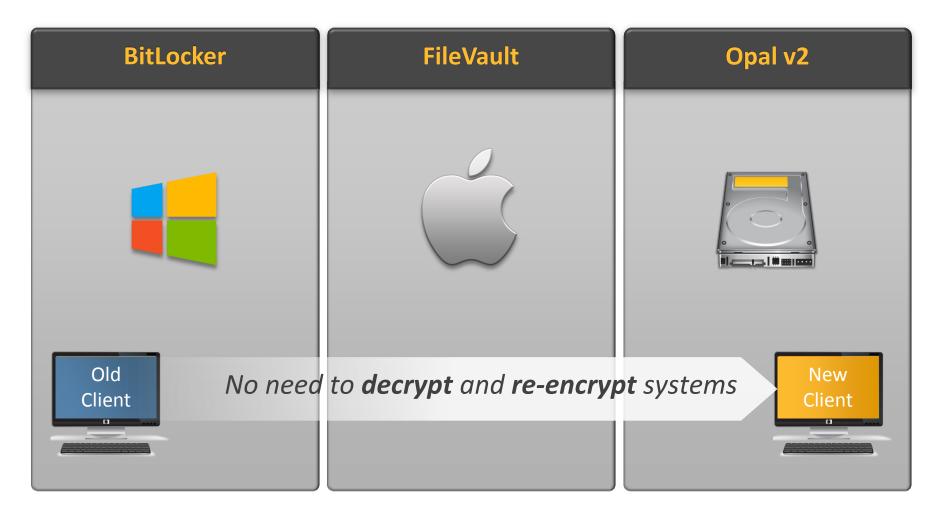
- Robust customizable reporting and extensive out-of-box reporting
- A simpler user experience by eliminating the need for enrollment
- Support for multi-user endpoints and non-AD environments
- Roughly doubling endpoint scalability
- Removable media encryption support
- Streamlined server architecture to allow faster innovation and engineering

A Glance at Reporting

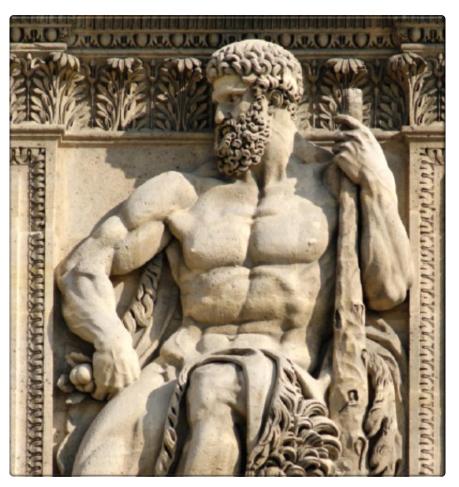


Hercules 1st Half of CY15 (Projected)

More robust management capabilities and easy migrations...



More Anticipated Highlights from Hercules



- Managing Self-encrypting Drives (Opal v2)
- Managing Windows BitLocker and Mac OSX FileVault
- Policy-based pre-boot bypass
- Tablet support w/out keyboard
- Additional PIV/CAC card support

A Sneak Peak

Demo



Thank you!

--Symantec Encryption Team--

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