# PLOTTING YOUR DATA EXIT BEFORE ENTERING THE CLOUD FREDRIK FORSLUND

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## WARNING ASSUMPTIONS

ASSUMPTIONS ASHEAD

## Assumption #1: Cloud Storage Providers Should Take Care of *Your* Needs



- ✓ Loss of control and ownership
- ✓ Lack of visibility into what's stored in the cloud
- ✓ Unauthorized mobile/connected devices accessing the cloud
- ✓ Lack of visibility into security practices
- ✓ Failure to personally conduct regular audits or have regulatory agencies conduct them





#### Assumption #2: It's Easy to Hack into the Cloud



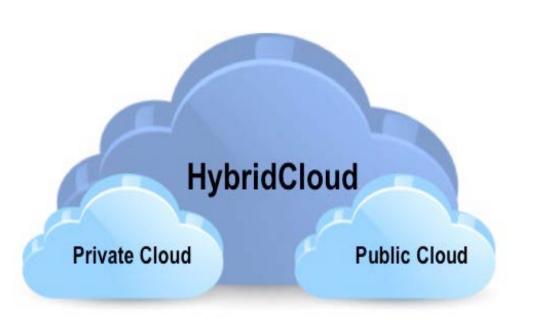
- ✓ Seen as 'fruit bearing jackpot' by hackers
- ✓ Sophisticated hacker groups leveraging global technology and expertise are the 'new normal'
- ✓ Flatness and openness of cloud make it more vulnerable
- ✓ Unaware of how and where attackers can infiltrate systems

## Assumption #3: Insider Threats Are Few and Far Between



- ✓ Employees leave organization and take access to cloud servers with them
- ✓ Accidental mistakes made by current employees due to lack of training
- ✓ Internal administrators accessing executive-only intellectual property/financial statements
- ✓ Current employees access cloud data with the intention of leaking for monetary gain

## Assumption #4: A Hybrid Cloud Strategy Is the Sweet Spot



- ✓ Scalability
- ✓ Lower infrastructure costs
- ✓ Freedom to innovate
- ✓ But...are security risks and inefficiencies minimized?

## Assumption #5: Politics & Government Don't Impact Your Cloud Strategy



- ✓ Aug 2015: FTC has authority to regulate corporate cyber security
- ✓ Dec 2015: Obama signs \$1.1 trillion cyber security spending bill
- ✓ Dec 2015: EU GDPR requirements are finalized
- April 2016: EU-US Privacy Shield creates new legal framework for transatlantic data flows to protect fundamental rights of Europeans where their data is transferred to U.S. and ensure legal certainty for businesses

## Assumption #6: You Only Have To Anticipate the Contentious Breakups

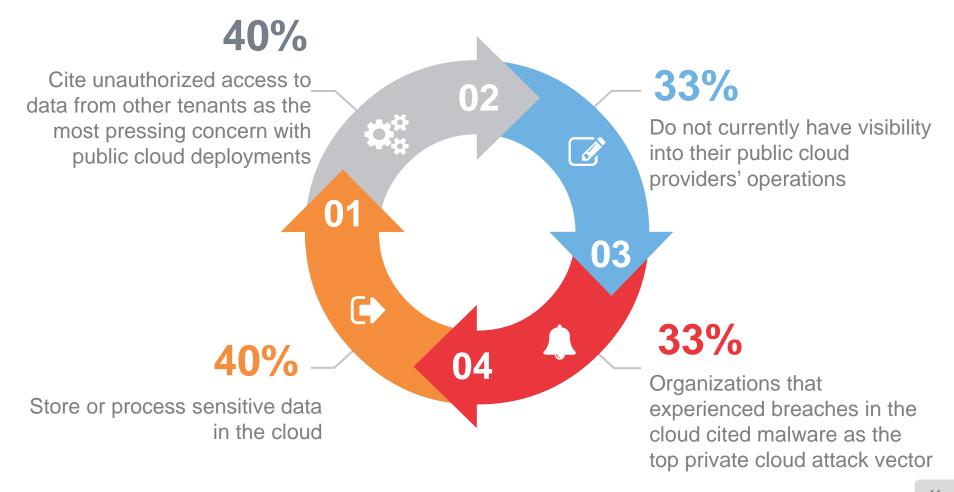


- ✓ Prices go up and you can no longer afford it
- ✓ Contract renewal terms aren't desirable
- ✓ Services aren't up to par
- ✓ Security isn't as strong as you thought
- ✓ A different vendor can do the job better



https://www.youtube.com/watch?v=BrVSXI6Nmo

#### The Cloud Storage Struggle Is Very Real



#### 6 Scenarios When Data Removal Is <u>Absolutely</u> Necessary



## Scenario #1: Sending Back Faulty Drives Under Manufacturer Warranty







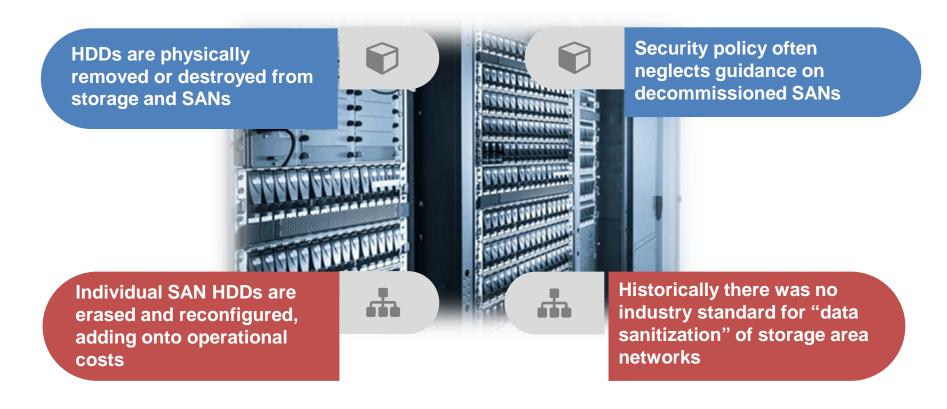
#### Sending Back Faulty Drives Under Manufacturer Warranty: Doing It the *Right* Way



What You Should Really Do: Securely erase drives first, then send back drives under warranty

What's the Benefit to You: Cost savings, minimized data exposure and compliance readiness

## Scenario #2: Planned SAN/Server Decommissioning



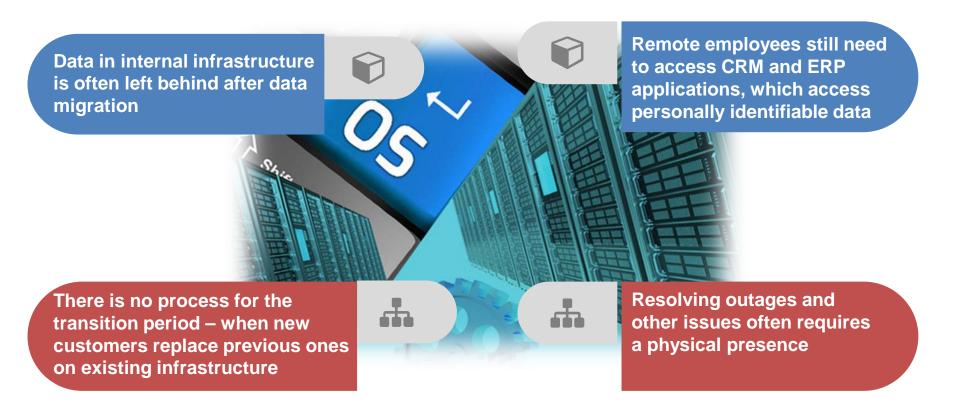
#### Planned SAN/Server Decommissioning: Doing It the *Right* Way



What You Should Really Do: Remotely erase SANs while in active use, erase all active LUNs containing customer data

What's the Benefit to You: Minimized security risks, regulatory compliance readiness (with audit trail), increased revenue through resale of equipment

## Scenario #3: Planned Data Migration & Data Center Consolidation



#### Planned Data Migration & Data Center Consolidation: Doing It the *Right* Way



What You Should Really Do: Securely erase dedicated storage on the logical level before reassigning the storage

What's the Benefit to You: Holistic data management across entire lifecycle, minimized security risks and regulatory compliance readiness (with audit trail)

## Scenario #4: Terminating Virtual Machines in the laaS



Remote employees still need to access CRM and ERP applications, which access personally identifiable data

Resolving outages and other issues often requires a physical presence

#### Terminating Virtual Machines in the laaS: Doing It the *Right* Way



What You Should Really Do: Integrate with the Hypervisor and get information on all files related to the VM and then securely erase them.

What's the Benefit to You: Protection against data breaches, active information life cycle management with full audit trail.

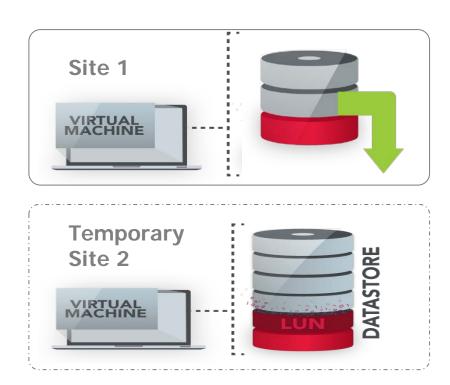
#### Scenario #5: Disaster Recovery Data Exercises



Disaster recovery data exercises are regularly performed for customers

There is rarely any established processes or documentation for securely erasing live data

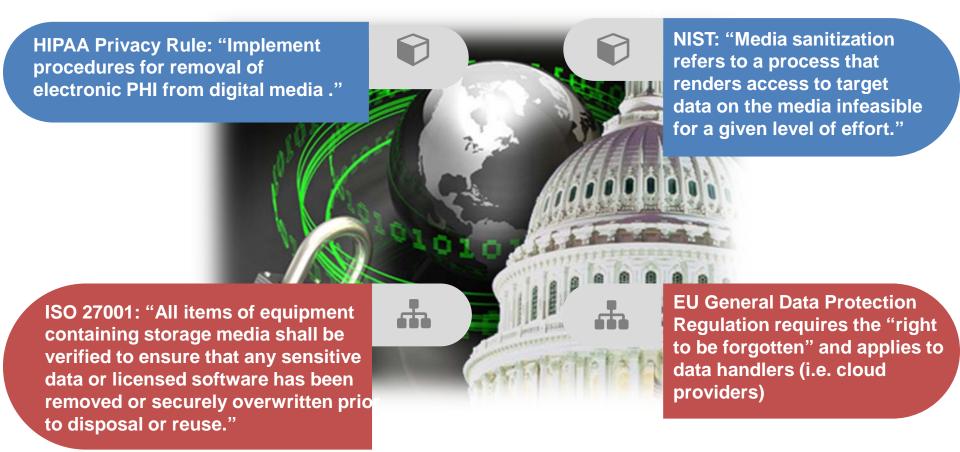
#### Disaster Recovery Data Exercises: Doing It the *Right* Way



What You Should Really Do: Erase customer data from temporary sites (post disaster recovery exercise), integrate proof of erasure into process

What's the Benefit to You: Minimized data exposure/loss, evidence for regulatory compliance, revenue generation

#### Scenario #6: Regulatory/Governing Bodies Conduct Audit





#### Cloud Magna: A Cloud Storage Success Story

http://www.blancco.com/en/content/cloudmagna-customer-success-story



#### **Content You May Find Useful:**

"Cloud & Data Center Erasure: Why Delete Doesn't Suffice": <a href="http://www2.blancco.com/en/white-paper/cloud-and-data-center-erasure-why-delete-doesnt-suffice">http://www2.blancco.com/en/white-paper/cloud-and-data-center-erasure-why-delete-doesnt-suffice</a>

"The Information End Game: What You Need to Know to Protect Corporate Data Throughout its Lifecycle": <a href="http://www2.blancco.com/en/white-paper/the-information-end-game-what-you-need-to-know-to-protect-corporate-data">http://www2.blancco.com/en/white-paper/the-information-end-game-what-you-need-to-know-to-protect-corporate-data</a>

"Data Storage Dilemmas & Solutions": <a href="http://www.slideshare.net/BlanccoTechnologyGroup/data-storage-dilemmas-solutions">http://www.slideshare.net/BlanccoTechnologyGroup/data-storage-dilemmas-solutions</a>

"EU GDPR: A Corporate Dilemma": <a href="http://www2.blancco.com/EU-GDPR-Corporate-Dilemma-Research-Study">http://www2.blancco.com/EU-GDPR-Corporate-Dilemma-Research-Study</a>