

How to simplify your global data protection and management strategy



About DevOps Institute

DevOps Institute's mission is to advance the human elements of DevOps by creating a safe and interactive environment where our members can network, gain knowledge, grow their careers, support enterprise transformation and celebrate professional achievements.

We connect and enable the global DevOps community to drive change in the digital age.



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Agenda

This session will cover the basics of disaster recovery and business continuity through highlighting what might happen, how you can prepare, and the various tools making recovery practices easier.

- When Disaster Strikes
- Planning the Journey
- Easing the Path



Dr. Mark Peters

DevOps Institute Ambassador, US Chapter Chair @TinyCyber https://www.linkedin.com/in/markpeters5447/

Dr. Mark Peters works for Technica Corporation as Lead Information Assurance/Security Engineer on a US Air Force cyber weapon system. A cybersecurity expert, he holds multiple industry certifications including a CISSP and PMP. A DevOps Institute ambassador and USA chapter chair, he enjoys working with individuals on their unique DevSecOps approaches.



Does this feel like your disaster recover plan?



Are all your chickens are always running different directions?

Identify some ways to drive Continuity of Operations Plans (COOP) and Disaster Recovery Plans (DRP)



Data Risks

- Today's global business creates global exposure
- Natural Disasters
 - Global economic losses from natural disaster in 2019 \$232B
 - 2010 2019, a decade of disasters?
 \$2.98T Globally
- Evolving Human Risks
 - Ransomware 27% of 2020 databreach
 - Insider threat 37% attacks used real credentials

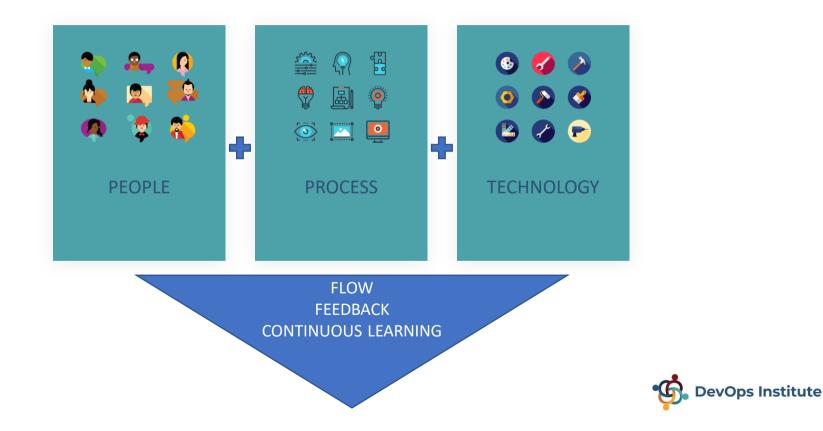


Either can leave you with no time to prepare data or business for survivability

If you wait to respond



What do disasters have to do with DevOps?



Conducting an Initial DR Assessment

- How much downtime can we afford before an unrecoverable business loss?
- Do we have a Disaster Recovery Plan? Do we have a Continuity of Operations Plan (COOP)
 - When was it updated?
 - What has changed since the last update?
- Identifying training requirements
 - When was the last time we exercised: Table Top, walkthrough, partial ops, full ops
- Building the right people and skill sets
 - Is the DRP/COOP person still with the company





Starting from Scratch

- People over processes: Business Impact Assessments
- Reasonable risk evaluations
 - Site Reliability Engineers
 - Risk = Threat * Vulnerability
 - Accept, Avoid, Mitigate, Transfer
- Finding risk techniques
 - FAIR, PMI, ISC2, ITIL...
 - Lots of DRP templates available online



NIST Special Publication 800-34 Rev. 1

Contingency Planning Guide for Federal Information Systems



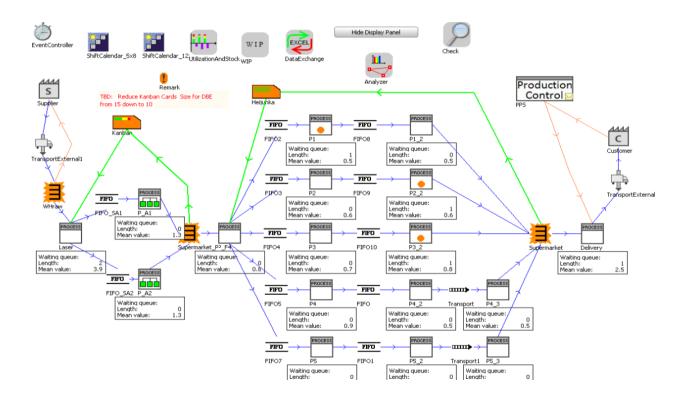
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U.S. Department of Commerce Gary Locks, Secretary oral Institute of Standards and Technology Patrick D. Gallanker, Director



Value Stream

- What matters to you?
- Prioritization
- Use the same Value Map for DevOps as for Recovery





How to assess preparedness

- Start where you are
 - Hot Site Immediate Rollover
 - Warm Site 12 24 Hours
 - Cold Site More than 2 days
- Plan for today
 - Database access (Customer, Payroll, Accounts)
 - Web-facing controls (API, VPN-WFH)
 - Development Data



The Corporate Go – bag

- What do you need to continue operations?

How to assess shortfalls

If you deliver....

- 1. Retail
- 2. Insurance sales
- 3. Software development Then...

How much backup?

- 1. Up to near real time
- 2. 2-3 days should be fine
- 3. A week may be acceptable

Assess value based on customer expectations

How much flow?

- 1. Routinely measure network activity
- 2. Moving docs/images or 3rd party
- 3. On-prem or off-prem solutions?

How much feedback?

- 1. Near real-time customer
- 2. Moving docs/images or 3rd party
- 3. On-prem or off-prem solutions?

How much diversity?

- 1. City-wide spacing
- 2. Across the country
- 3. Logical divided across the room





Maximizing Automated Recovery



- Discovering useful processes
 - Emphasize needed data
- Community standards
 - Data formats
 - Recovering Software, Firmware, Hardware
- Available tools
 - Trying before buying
 - Are the tools resilient?



Bringing it all together

- Don't have to do it all on your own, shared work is light work
 - Practice makes perfect
 - Review and adapt as values change
- DevOps Institute Courses and Certifications
- Amazon Marketplace









Thank you!

Dr. Mark Peters

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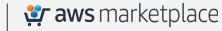
How to simplify your global data protection and management strategy on AWS

Chris Chapman

Partner Solutions Architect, AWS

The corporate go-bag





aws

Technology is a partial solution





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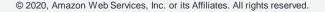
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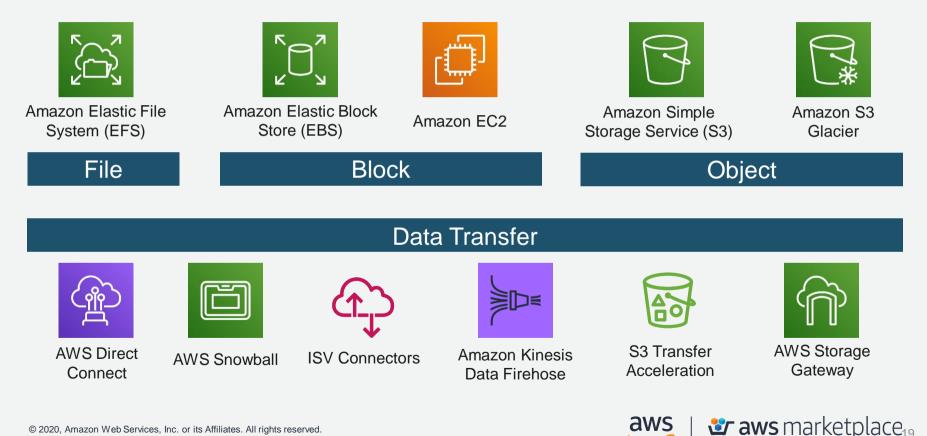
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- **Discover AWS compliance** programs

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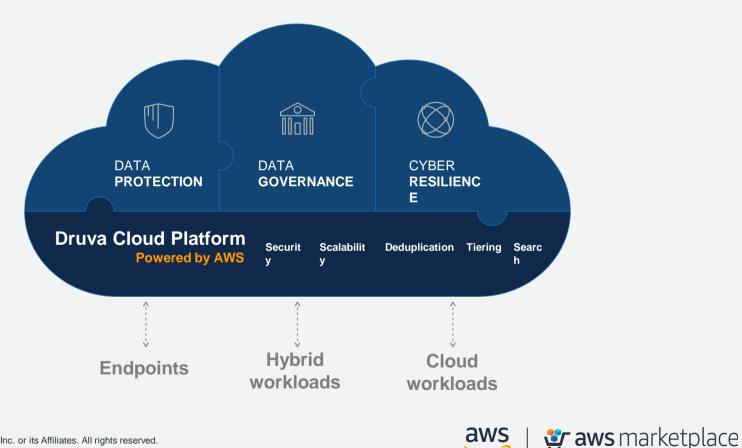
Taws marketplace



Storage is a platform: AWS Storage Maturity



Druva SaaS platform for data protection



Securely scale and simplify your data protection



aws partner network

Advanced Technology Partner

Storage Government Digital Workplace Competency Endpoints, data center, K8, cloud workloads (SaaS & AWS)

Built-in workflow templates

- Patented source deduplication
- Disaster recovery-as-a-service (DRaaS)
- Zero-trust architecture

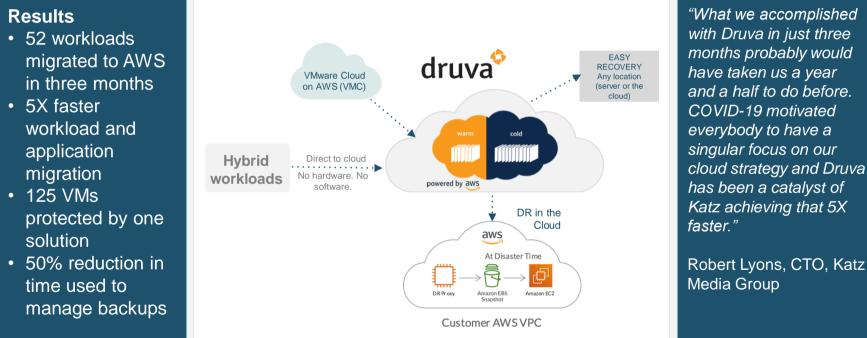


Migrating to backup and DR-as-a-service

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Katz Media replaces legacy backup & gets globally available cloud-based DR



has been a catalyst of Katz achieving that 5X Robert Lyons, CTO, Katz Media Group

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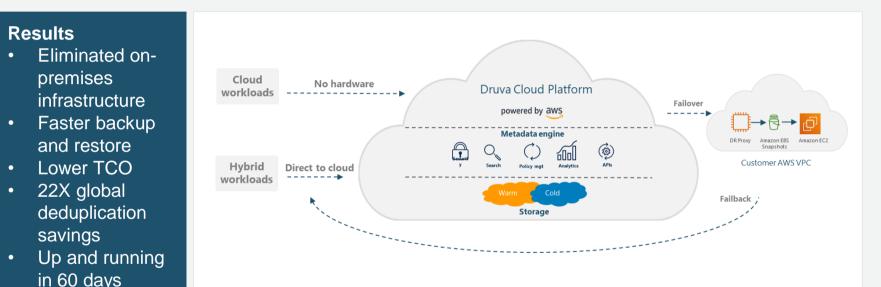
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Transitioning from legacy hardware



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MFXchange cuts time for data center backup by half after switching to Druva



"One of the greatest successes we've had with Druva is its simplicity. Within 60 days of deployment, we converted 1,500 VMs and physical servers to Druva and have dramatically reduced our data center footprint, and now use Druva to backup some of our clients' remote servers."

William Shepard, Vice President of Infrastructure Services, MFXChange US



Converged data management





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Storage Competency

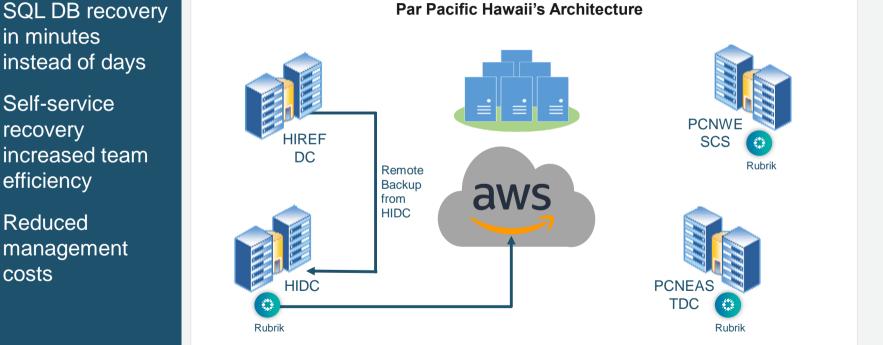
- Instant recovery with near-zero RTO's
- Deployment in less than an hour
- Policy-driven automation
- Native protection for virtual workloads and SaaS
- Application mobility for long term retention



costs

Critical database protection

Par Pacific Holdings simplifies its DR strategy and gains efficiency





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Control costs with an industry-first

VEEAM



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Storage Competency

- Comprehensive AWS-native backup and recovery
- AWS Marketplace Metering Service integration
- Fully-automated EC2 backup and DR
- Native Amazon EBS snapshots
- Industry-first backup cost calculation

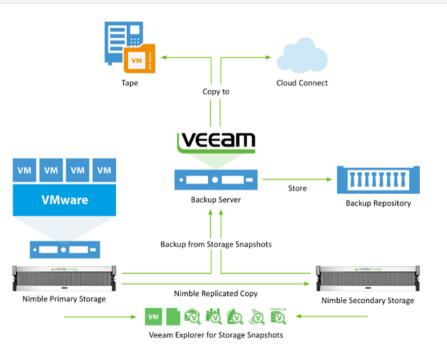


Eliminating stun to boost performance

Modernizing data protection to support clients' sales, productivity, and CSAT

Results

- Backup across more than 1,000
 VMware vSphere
 VMs with zero
 impact on client
 services
- Client-specific regulatory compliance
- Recovery time reduced from hours to minutes



"Veeam's built-in encryption helps us protect data before backup, in transit and at rest and [the] detailed reports help us demonstrate compliance."

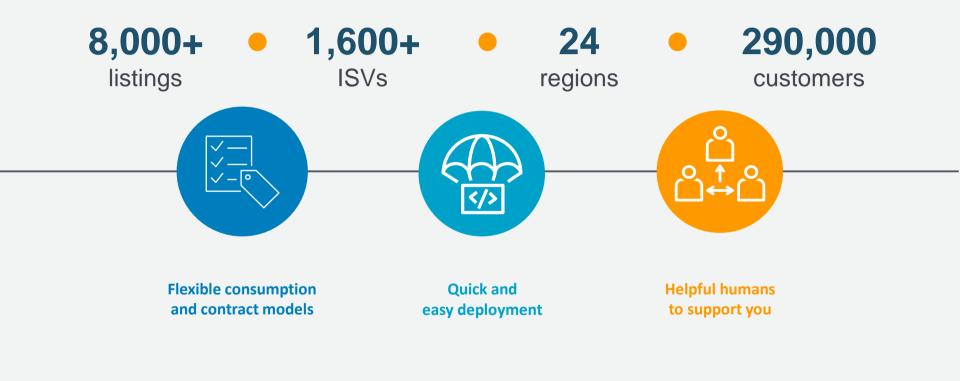
S Maritz[®] Veeam

Michael Masters, Infrastructure Specialist, Maritz

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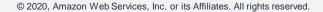


Get started on AWS Marketplace



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Points to consider



Preparing for disaster can be key to mitigating business risk Successful risk mitigation starts with tailored value planning Understanding AWS Storage maturity is an essential first step Leverage expertise of others – focus on what you do best – and easily experiment with different software tools

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AWS Marketplace: aws.amazon.com/marketplace

AWS Well-Architected: aws.amazon.com/architecture/well-architected

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Questions: aws-sa-marketplace@amazon.com



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Please specify whether your question is for Mark (DevOps Institute) or for Chris (AWS).

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