AWS re:Invent

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STG217

Introducing AWS Backup for VMware workloads

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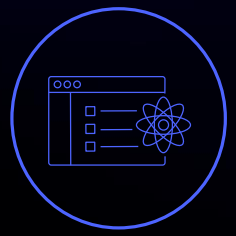
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Agenda

- Centralized data protection
- Protecting hybrid VMware workloads
- AWS and VMware partnership
- AWS Backup for VMware
- Q&A

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Need for centralized data protection



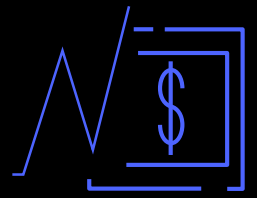
Simplicity

Simplify management of data protection policies



Compliance

Easily prove compliance of organizational data protection practices to auditors

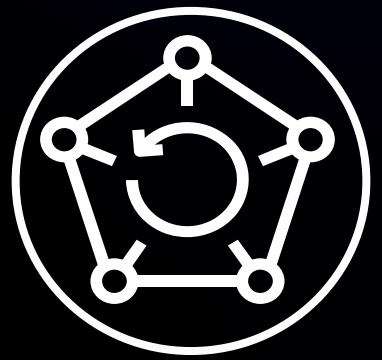


Cost optimization

Reduce costs by minimizing time and effort of protecting in-cloud environments

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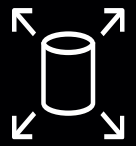
AWS Backup



AWS Backup



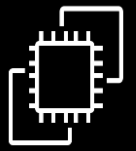
Amazon RDS



Amazon EBS



Amazon EFS



Amazon EC2



AWS Storage Gateway



Amazon DynamoDB



Amazon FSx for Lustre



Amazon FSx for Windows File Server



Amazon Aurora



Amazon DocumentDB (with MongoDB compatibility)



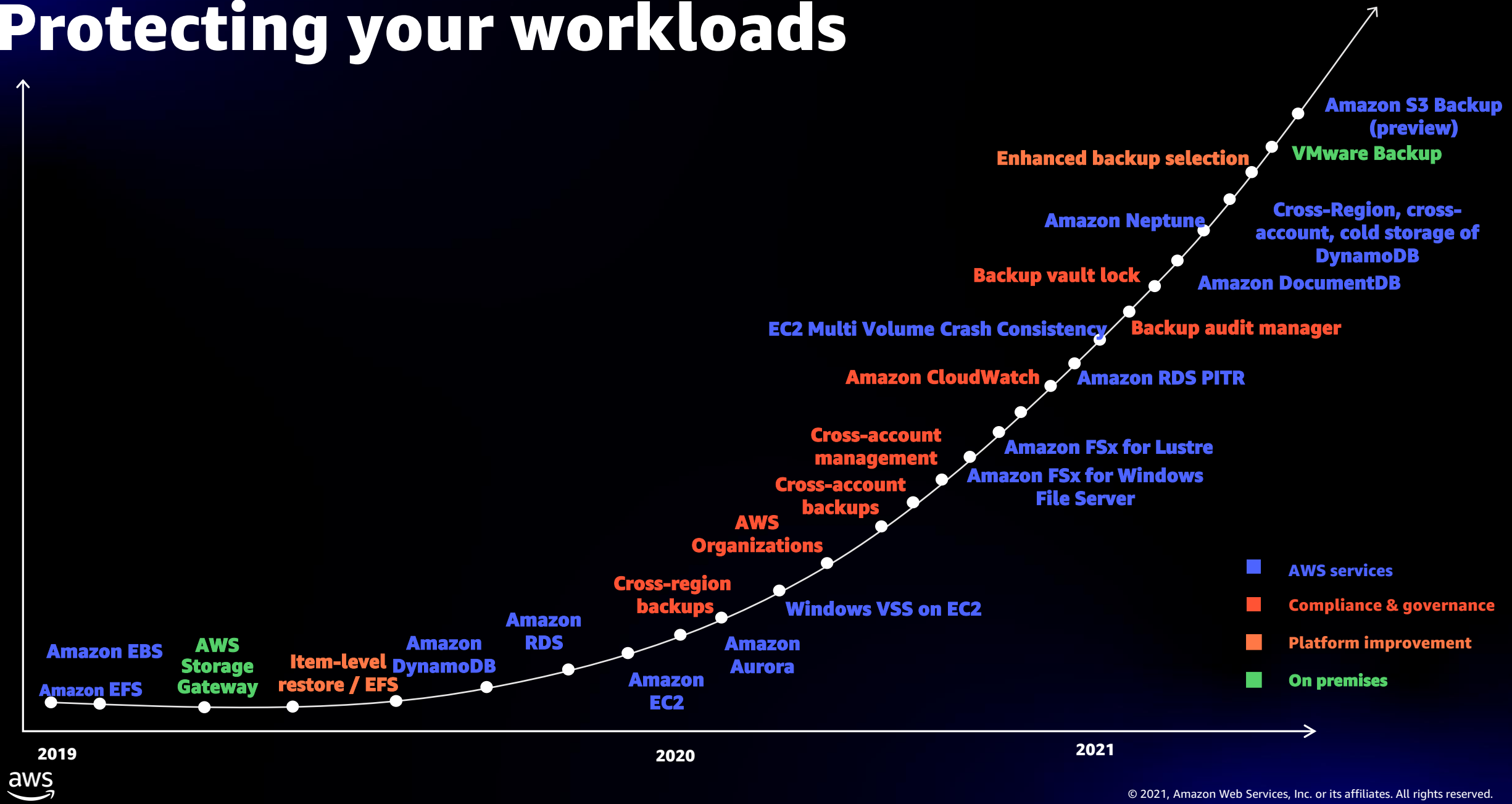
Amazon Neptune



Amazon S3 (Preview)

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Protecting your workloads

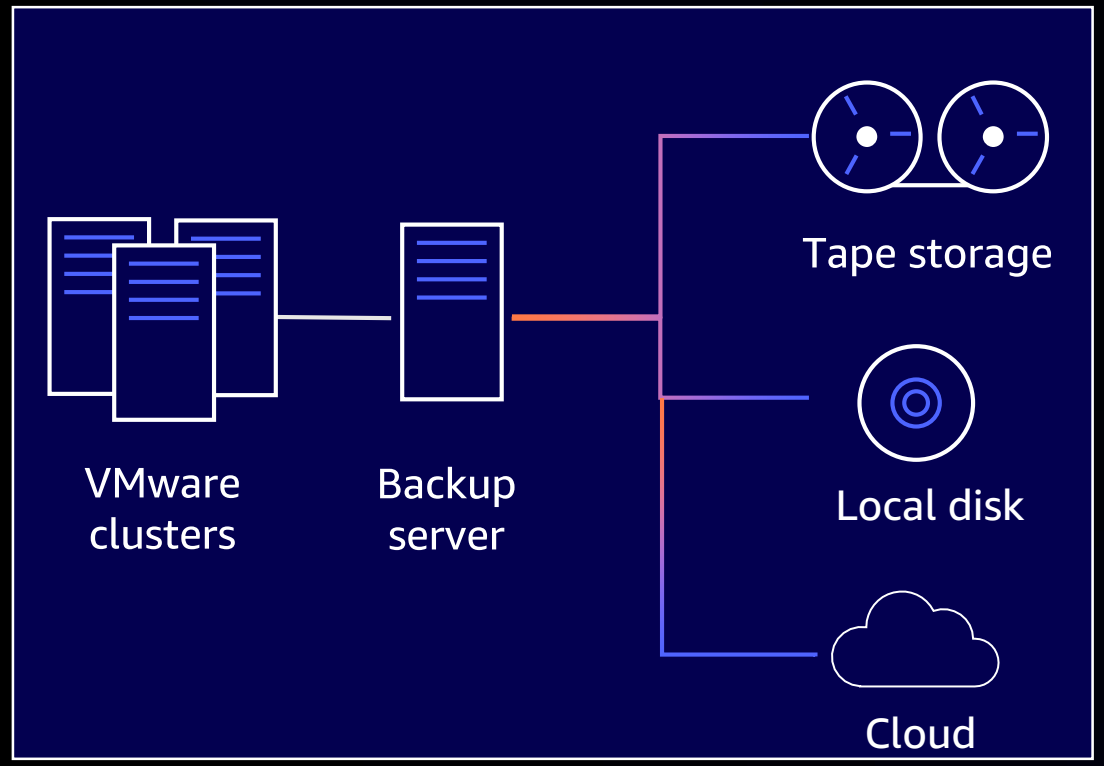


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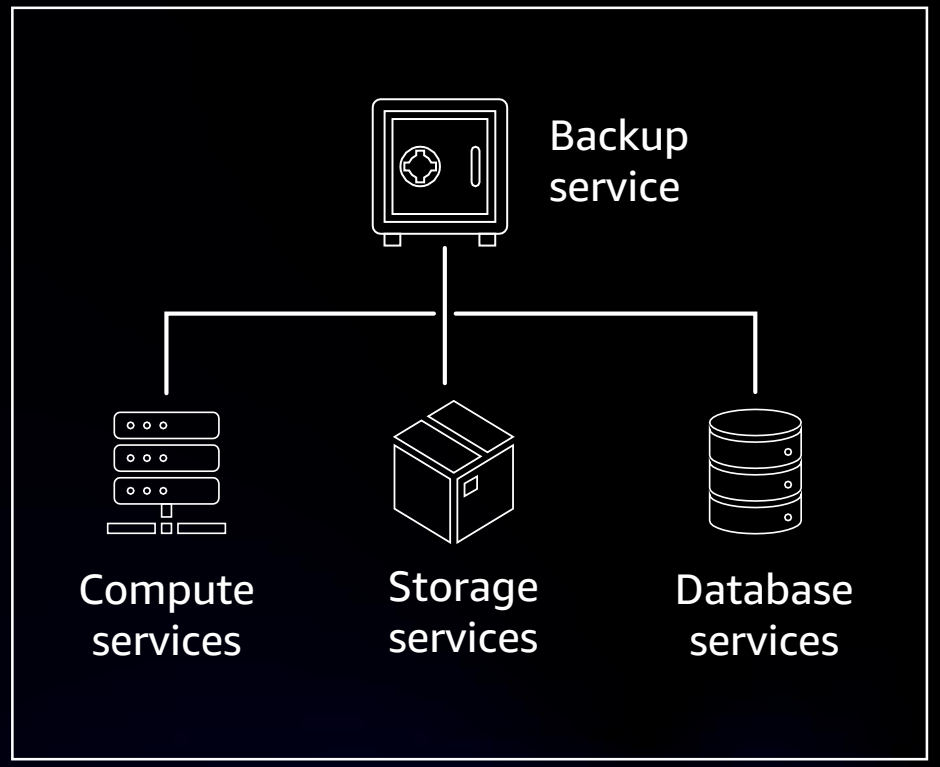
Protecting hybrid VMware workloads

SEPARATE BACKUP ENVIRONMENTS FOR ON-PREMISES AND CLOUD

Workloads running at customer premises



Workloads running in cloud



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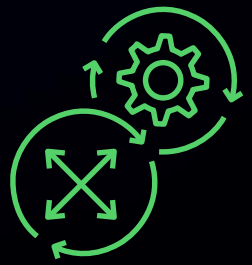
Centralize data protection with AWS Backup



Automate data protection management

Centralize and scale with policy-driven protection

Create, monitor, and manage data protection



Improve data resiliency and continuity

Copy secondary data across Regions and accounts via AWS Organizations

Cross-account copy of backups



Ensure data protection compliance and governance

Real-time data protection management with auditor-ready reports

Immutable backup with WORM vaults

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Taking the next step in our partnership to protect VMware workloads using AWS Backup

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Introducing AWS Backup for VMware

THREE MAIN PILLARS OF AWS BACKUP FOR VMWARE



Single, centralized data protection solution for hybrid VMware workloads



Flexible restore options – on premises and VMware Cloud on AWS

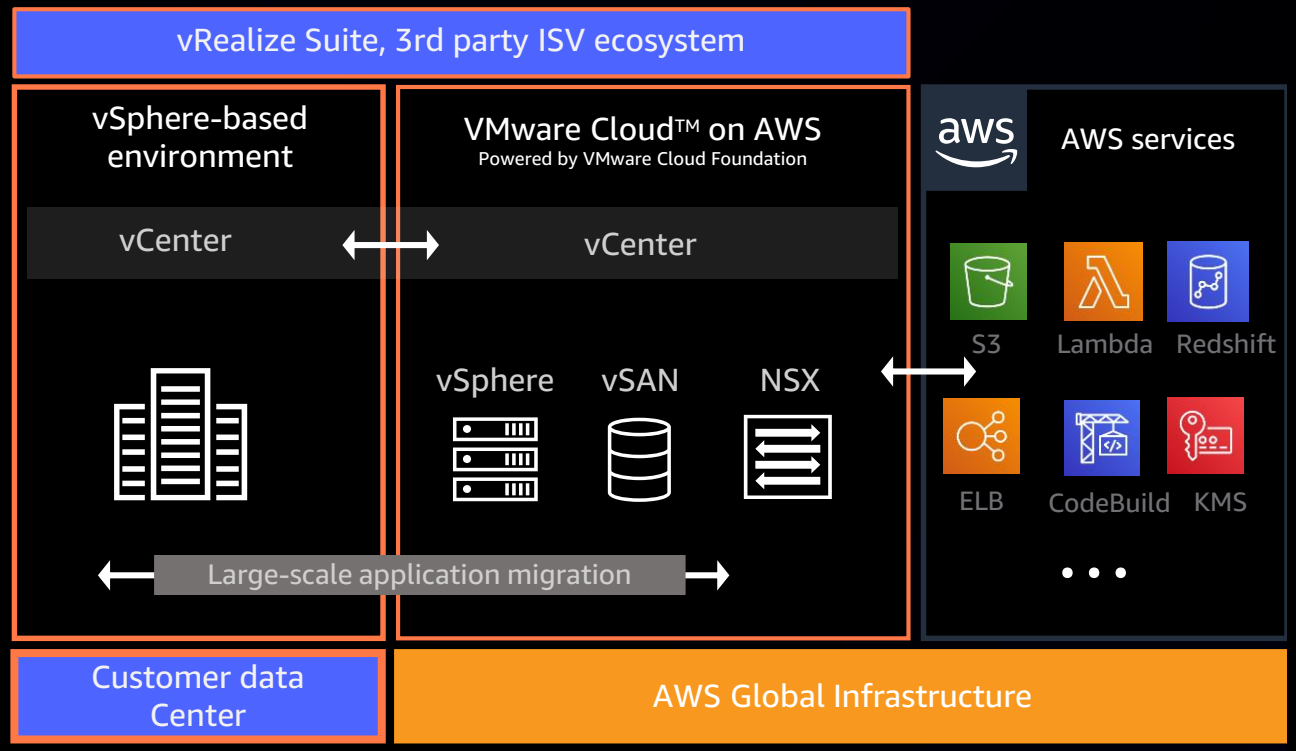


Ability to use same backup policy across AWS-native services and VMware

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VMware Cloud on AWS

JOINTLY ENGINEERED CLOUD SERVICE



Benefits:

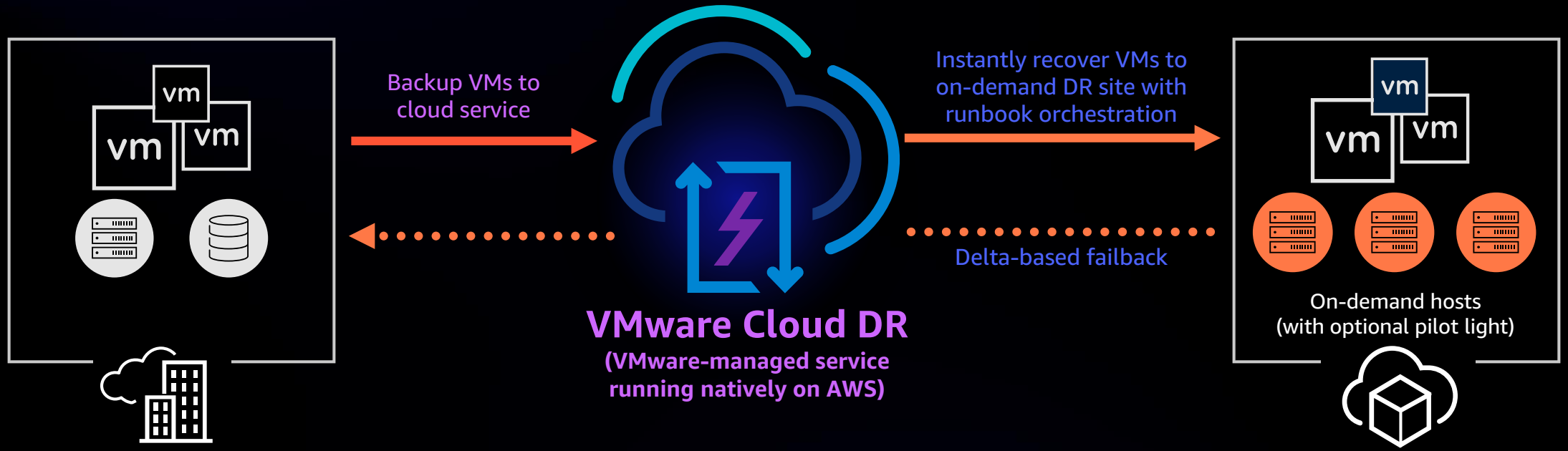
- On-demand capacity and flexible consumption
- Operational consistency with on-premises
- Global AWS footprint, reach, availability
- Direct access to native AWS services

Use-Cases:

- Cloud Migrations
- Data Center Extension
- Disaster Recovery and Data Protection
- Next generation apps

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VMware Cloud on AWS: Disaster recovery (VMware Cloud DR)



On-demand

Easy-to-use

Cloud economics

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AWS and VMware

CONTINUOUSLY DELIVERING SIGNIFICANT CUSTOMER VALUE



Aug 2017
VMware Cloud on AWS Initial Availability

- AWS Oregon Region
- 4 host SDDC
- Hybrid Linked Mode
- Flexible consumption

Mar 2018
Geo and Partner Expansion

- AWS London Region
- MSP Program
- Credit Card Payment
- 1 host SDDC

Nov 2018
Advanced Security

- AWS Ireland, N. CA, Oio, Tokyo, AWS GovCloud
- NSX-T (Micro-segmentation)
- Horizon Enterprise Suite
- External storage access

May-Jun 2019
Advanced Networking

- **AWS Mumbai, Seoul, Sao Paulo**
- Advanced networking
- vCenter permissions
- AWS re-sell

Jul-Aug 2019
Enhanced Migration and Ecosystem

- **New migration experience**
- VMware Cloud Marketplace support
- vRealize enhancements

Feb-Apr 2020
Enhanced Availability, Scale and Ecosystem

- **Tanzu Kubernetes Grid Support**
- Large SDDC support
- VMware SD-WAN
- vRealize enhancements

Aug - Oct 2020
Cost-optimized DRaaS, automation

- **VMware Cloud Disaster Recovery (cost-optimized)**
- VMware Tanzu Mission Control
- VMware Transit Connect

Nov 2021

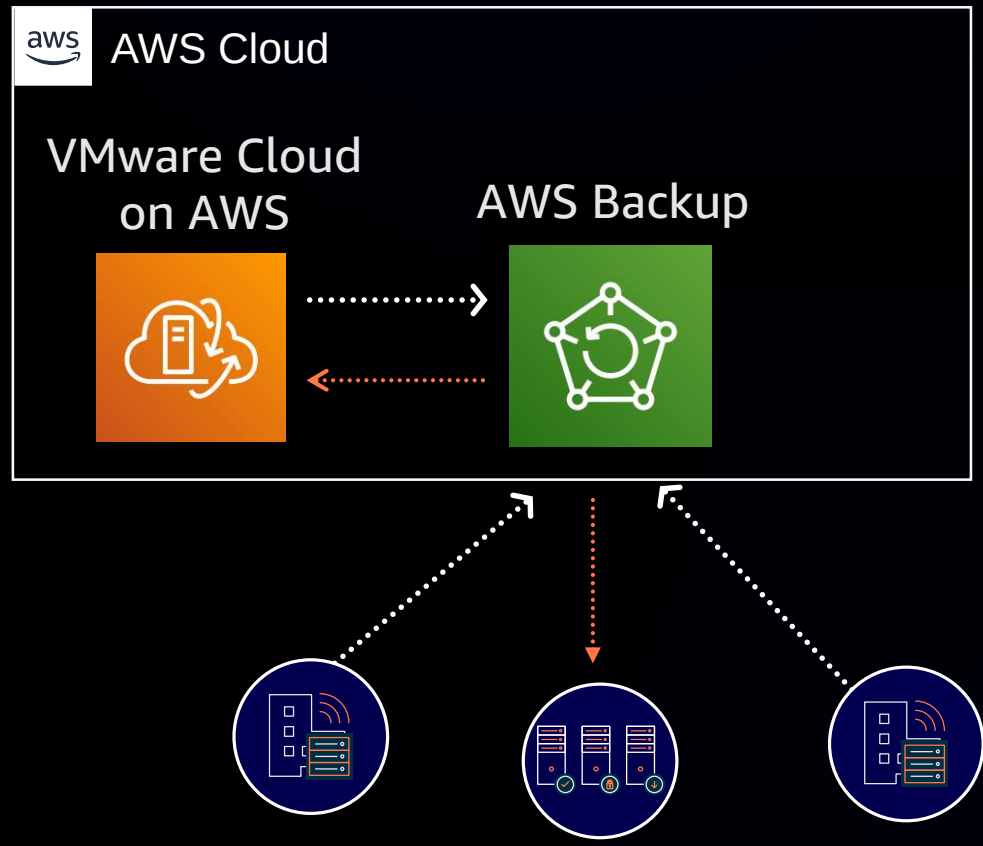
AWS Backup for VMware

- Backup on premises and VMware Cloud on AWS VMs
- Restore to on premises and VMware Cloud on AWS VMs

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AWS Backup for VMware: Capabilities



- Create immutable backups of ESXi 6.7.x, 7.x from VMware on premises, and VMware Cloud on AWS
- Restore to VMware Cloud on AWS or on premises
- Use lifecycle policies to cold tier your backups
- Create separable, protected cross-account and cross-Region backups to meet compliance needs
- Centrally manage data protection across AWS Organizations accounts

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Getting started with AWS Backup for VMware



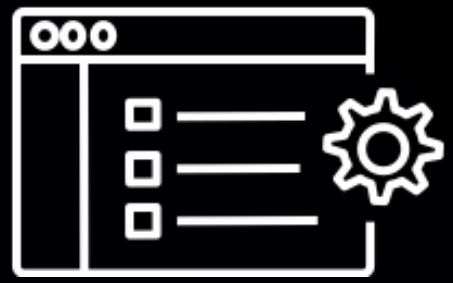
AWS Backup

1



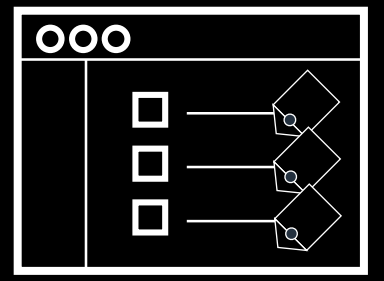
Download Backup gateway, which automatically discovers VMs

2



Define a backup plan with your organizational data protection policies

3



Govern your backups and maintain compliance of your policies

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AWS Backup for VMware: Availability

LIVE IN 23 REGIONS



North America
- US-West-2 (Oregon)
- US-West-1 (N. Cal.)
- US-East-1 (N. Va.)
- US-East-2 (Ohio)
- Canada-Central-1 (Montreal)

GovCloud (US)
- GovCloud-East
- GovCloud-West

Europe
- EU-West-1 (Ireland)
- EU-West-2 (London)
- EU-West-3 (Paris)
- EU-Central-1 (Frankfurt)
- EU-North-1 (Stockholm)
- EU-South-1 (Milan)*

South America
- South America-East-1 (São Paulo)

Middle East
- ME-South-1 (Bahrain)

Africa
- Africa-South-1 (Cape Town)*

Asia Pacific
- APAC-Southeast-2 (Sydney)
- APAC-Southeast-1 (Singapore)
- APAC-Northeast-1 (Tokyo)
- APAC-Northeast-3 (Osaka)**
- APAC-Northeast-2 (Seoul)
- APAC-South-1 (Mumbai)
- APAC-East-1 (Hong Kong)

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AWS Backup for VMware: Pricing

YOU ONLY PAY FOR WHAT YOU USE WITH AWS BACKUP FOR VMWARE

1. Storage used ($/GB/month)
   - Warm storage
   - Cold storage
2. Data restored ($/GB)
   - Warm storage
   - Cold storage
3. Data transferred ($/GB)
   - Cross-region copy
   - Data transfer out

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Key takeaways

1

Centralized hybrid VMware workload protection together with 12 AWS services

2

Restore flexibility: On premises and VMware Cloud on AWS

3

Reduce costs by using cost-effective cloud storage for backups

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Call to action



Learn

aws.amazon.com/backup/features/vmware/

- Product information
- Product documentation
- Pricing



Execute

aws.amazon.com/console

- Create backup plan
- Download Backup gateway
- Protect VMware VMs



Get help

forums.aws.amazon.com

- Community help
- Your AWS account team
- AWS Support

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Thank you!

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