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### What is Keeping You Up at Night?

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# Agenda

- Introductions
- The Threat Landscape
- What Can You Do?
- Introduction to VCDR
- Call to Action

### STG Differentiated Solution Offerings & Capabilities



https://www.thesummitgrp.com/contact-us.html



### Ransomware is today (and will continue to be) a top CIO budget priority

Beyond direct monetary impact, it's an existential threat to organizations



\$42B

Projected worldwide damages in 2024 (up from \$20B in 2021) <sup>3</sup>

attacked in 2021; 76% had data encrypted <sup>1</sup>

Of organizations

96%

Did not regain full access to data following a ransom payment <sup>1</sup>

\$4.6M

Average cost of a ransomware breach <sup>2</sup>

<sup>1</sup>Sophos State of Ransomware 2022

<sup>2</sup>Cost of a Data Breach Report 2022, IBM Security

<sup>3</sup>Cybers e curity Ventures



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# Treat Ransomware Recovery as an Investment

### Potential asset impact....

Current asset portfolio(EOY 2021): \$ 3.6B
\* Liabilities \$ 2.9B
2022 growth projection: 6.9% \$ 248M
Estimated Deposit impact: -5% (\$145M)
Productivity impact/recovery cost: (\$5M)

Estimated growth impact: -50% (\$124M)

<u>Potential Total Impact:</u> (\$274M)

- Based on average time to restore operations of 16 days
- 2021 & 2020 EOY Numbers Leveraged for calculations



# Paradigm Shift in Ransomware Attacks

### **Until 2016**

- File-based approach
- Examples:
  - TorrentLocker aka CryptoLocker
  - Cerber (Fast-changing files)
- Detected by signature match



#### Post 2017

- Fileless, "Living off the Land"
  - Memory
  - Built-in OS programs & libraries
  - Stolen credentials (from black market)
- Disables security software



Traditional-AV fails; need EDR, NGAV, XDR

# Ransomware aaS? Yeah, it's a thing.



- The TAM or "Total Addressable Market" for Ransomware has led to the commoditization of malware.
- Subscription Service Model where malicious actors can pay a monthly or yearly subscription to access prewritten code for use.
- This expands the potential number of attack vectors as attackers no longer need to be deeply technical.
- Some subscriptions even have "Help Desk" offerings!

# A Pound of Prevention...

...Isn't always enough

- SOP has been focused on a traditional 3-tiered approach
  - People
  - Process
  - Technology
- Threat detection and avoidance along with corporate policies are evolving to meet the threat in new and more complex ways.
  - AI/ML based AV
  - Advanced firewalls
  - SASE
  - Micro-segmentation of networks
  - Security aaS offerings
  - Zero Trust models





# Not If, But When

People are still the weak link



Phishing



Human Error



Social Engineering



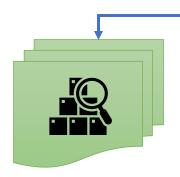
Disgruntled Employees

# What are you protecting against today?

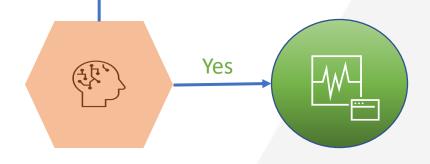
- Traditional HA/DR planning has focused on the "Physical"
  - Data Center Outages
  - Network Interruptions
  - Data Corruption
  - "Smoking hole" scenarios
- RTO and RPO
- These are important but in reality, are they really the biggest risk to your business?
  - Increasingly protection against malicious actors has come front and center

# Ransomware Recovery # Disaster Recovery

### No – Find a new recovery candidate









# Identify potential recovery candidate

- Are our backups compromised?
- When were we infected?
- How far do our backups go?

## Restore to isolated environment

- Necessary to prevent reinfection
- How do we ensure isolation?

# Validate restore point

- Is my data clean?
- Necessary to prevent reinfection
- Can we identify malware or fileless attacks?

### Restore

 Typically follows standard DR plan

### Report

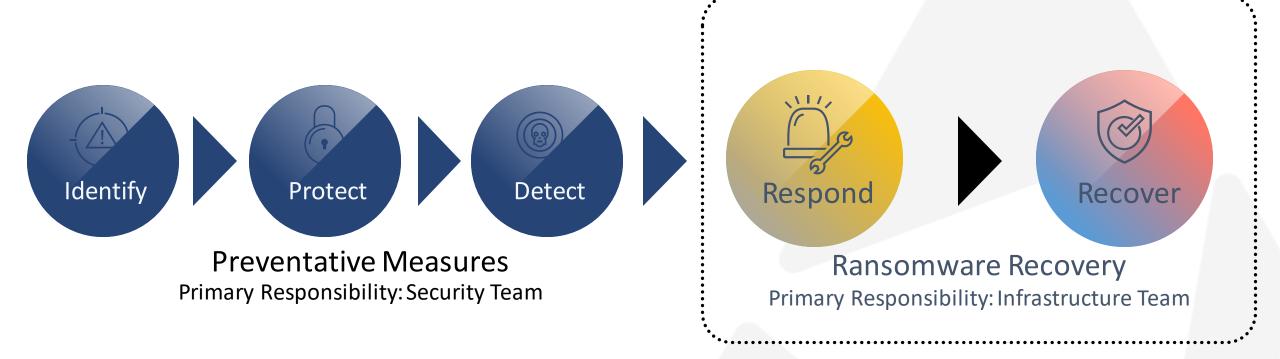
Compile audit report



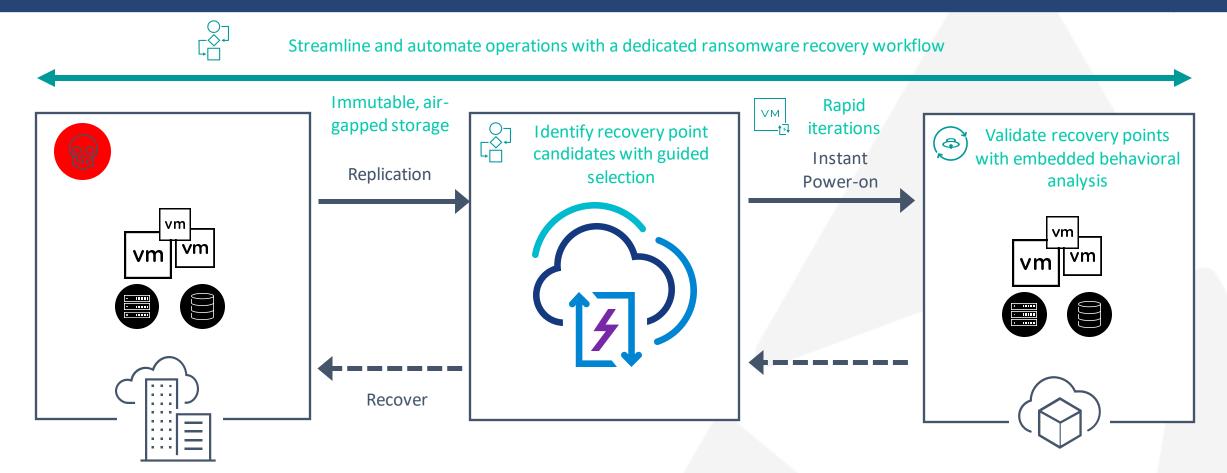
### Ransomware recovery is a critical last line of defense

Infrastructure Team is responsible for Recovery, working closely with Security Team

National Institute of Standards and Technology (NIST) Framework for Cybersecurity



# VM ware Ransomware and Disaster Recovery On-demand ransomware and disaster recovery, delivered as an easy-to-use SaaS solution



Blue: Disaster Recovery-as-a-Service Green: Next-Gen Ransomware Recovery-as-a-Service





### What makes VMware Ransomware Recovery Different?

A guided recovery workflow with embedded behavioral analysis in an on-demand IRE\*

### Build Your Own approach challenges





IREs\* are built, secured and managed by YOU



Provision a fully managed IRE\* to prevent reinfection



Scanning of offline backups, which is ineffective against fileless attacks



Identify next-gen ransomware strains with embedded behavioral analysis



Disconnected and manual experience, multiple tools and processes



Streamline and automate recovery with a guided ransomware recovery workflow



Slow process to iterate and evaluate multiple snapshots or backups



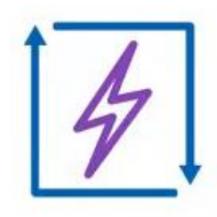
Accelerate recovery with rapid, iterative evaluations of recovery points

# Integrated by Design











Cloud Disaster Recovery™

# VCDR Workflow & Product Walkthrough

Configure adequate snapshot retention

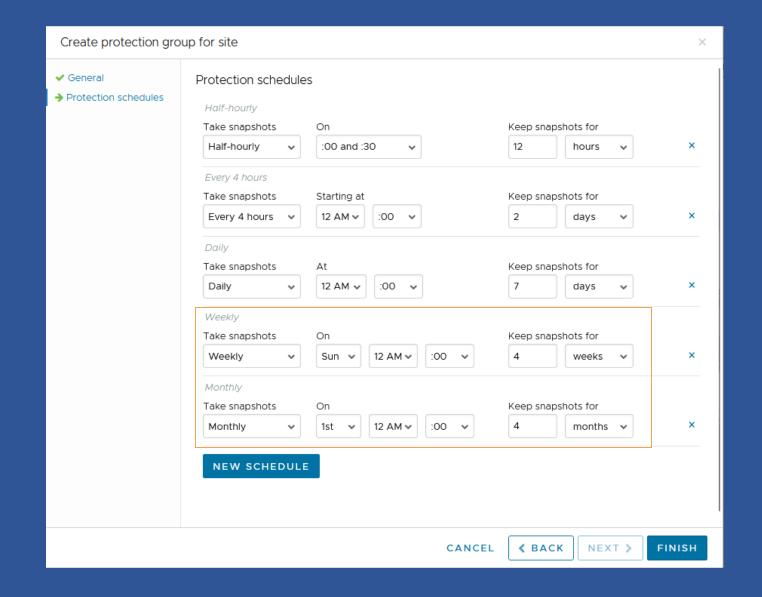
Activate Isolated Recovery Environment

Guided restore point candidate selection

Restore from snapshot and scan workload

Evaluate using Behavioral Analysis

Final inspection and curated image build





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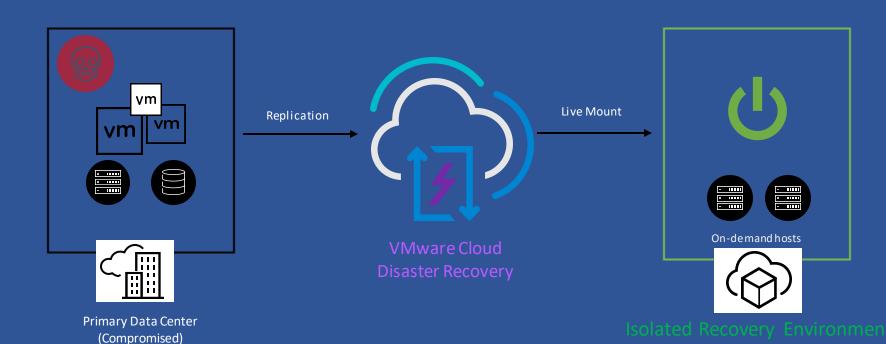
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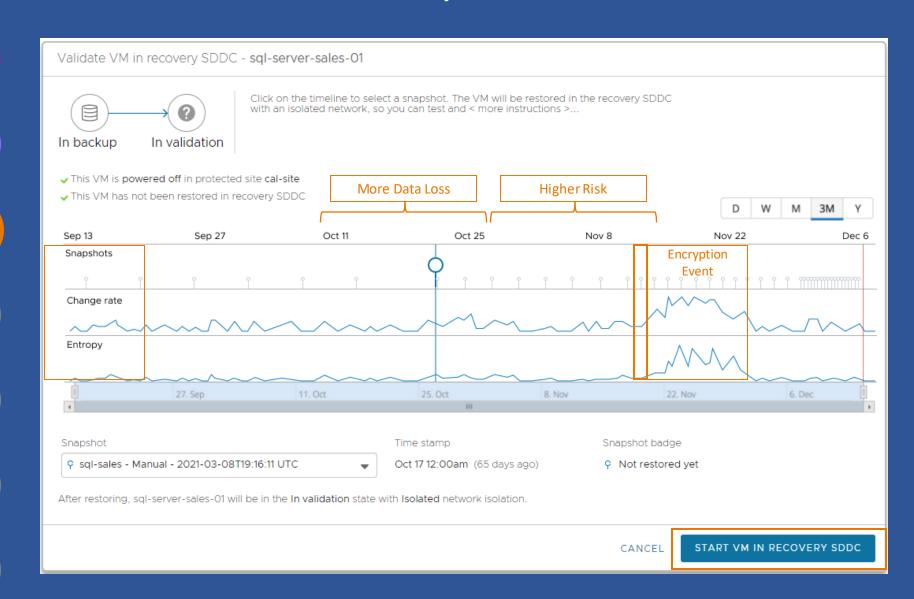
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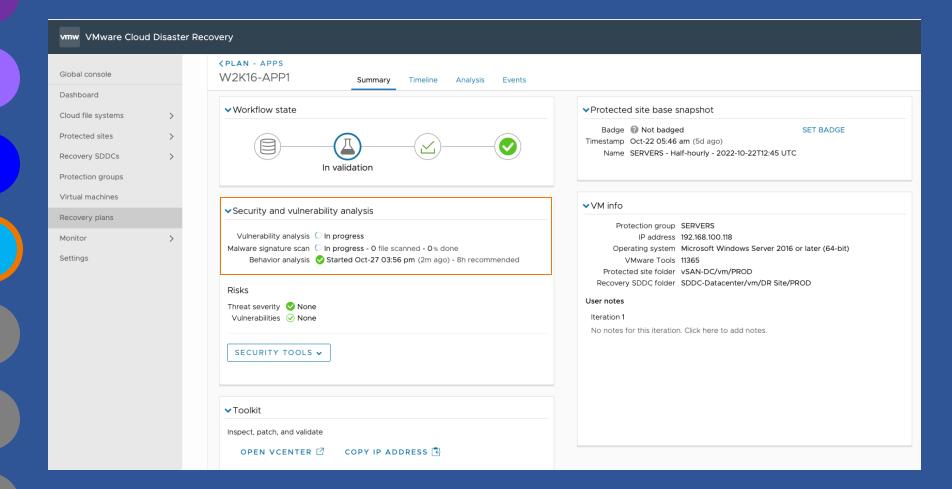
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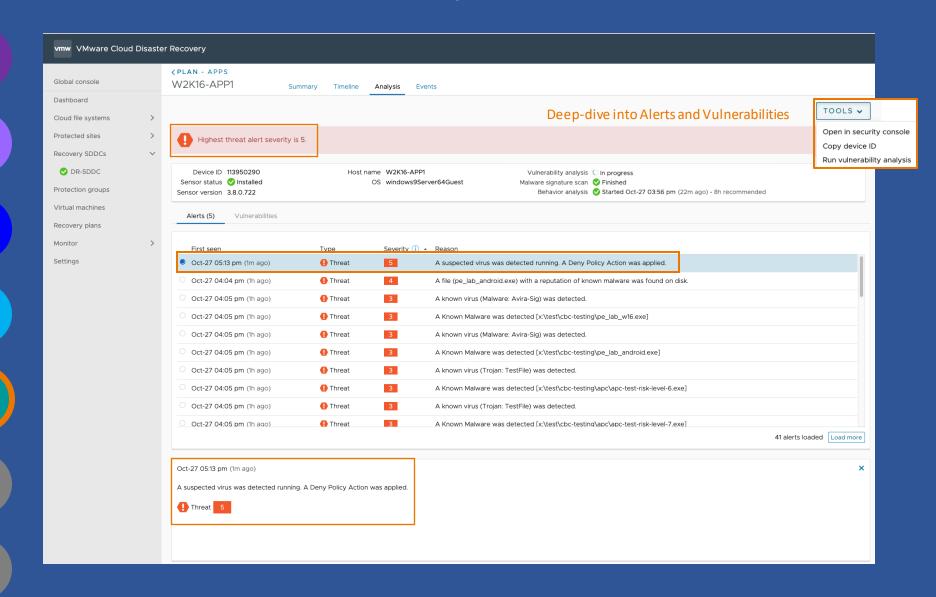
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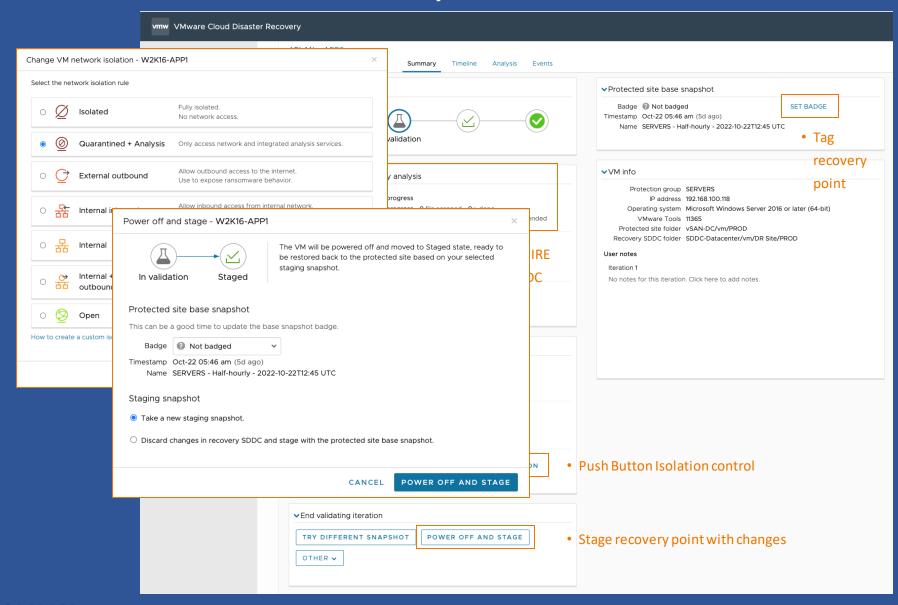
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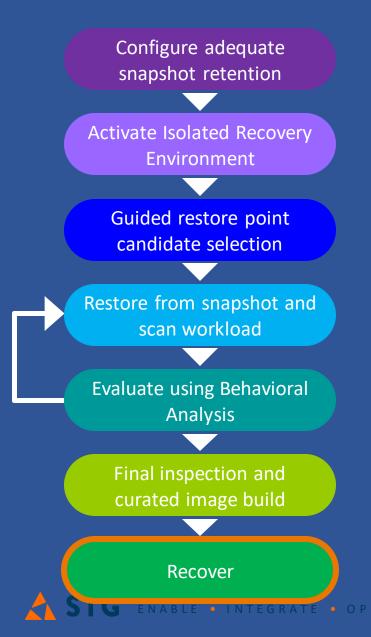
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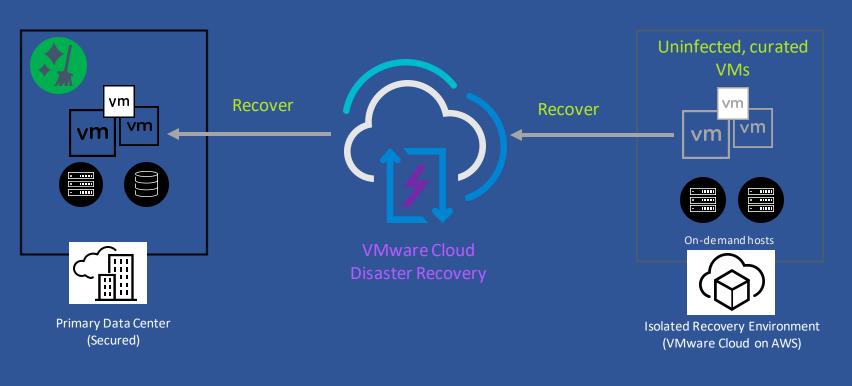
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# Key Take-aways

- Ransomware threat continues to evolve
- Traditional HA/DR/Back-up is not sufficient
- DIY isn't a small undertaking
- VCDR provides DRaaS with Ransomware Recovery and cloud scale and economics



### Call to Action

### **vm**ware





### Ransomware Recovery Maturity

Ransomware Recovery Maturity assessment is a comprehensive evaluation of an organization's ability to recover from a ransomware attack using the capabilities provided by VMware Cloud Disaster Recovery and VMware Ransomware Recovery. The assessment would analyze the organization's current disaster recovery and backup procedures to identify potential vulnerabilities and recommend improvements to strengthen their resilience against ransomware attacks. The assessment would also evaluate the organization's readiness to quickly failover to a cloud-based recovery environment, validate backups, and perform at-scale recoveries. The goal of the assessment is to ensure that the organization has a robust and effective ransomware recovery plan in place to minimize the impact of an attack and ensure business continuity.

If you take a few minutes to assess these capabilities you will get an instant performance dashboard and will be able to request an executive report.

| Begin Assessment | The Summit Technology Group Privacy Policy

### https://tinyurl.com/rw-assessment

- Take the free Ransomware Recovery Maturity assessment!
- Engage with Summit to do a deeper dive.
  - https://www.thesummitgrp.com/contact-us.html
- Prepare!

# THANK YOU

