17 Best Practices to Protect Against Ransomware

Ransomware attacks can be extremely destructive to a business and its ability to function. According to a study published in Health Services Research,¹ ransomware adds an extra 2.7 minutes to response times for heart attacks, leading to an additional 36 deaths per 10,000 heart attacks each year. Recovery efforts from ransomware attacks can also damage an organization's finances and reputation.

Seventy percent of surveyed respondents in the VMware Carbon Black Global Incident Response Threat Report² cited they had suffered damage to their corporate image following a breach.

Cybercriminals increasingly evolve their attack tools and strategies by developing ransomware variants that slip by legacy malware protection.



70%

suffered damage to their corporate image

PREVENTION IS THE MOST EFFECTIVE DEFENSE.

By identifying malicious behavior before an attack takes place, these attacks can automatically be blocked.



FOLLOW THESE 17 BEST PRACTICES RECOMMENDED BY OUR SECURITY EXPERTS

1. Implement an awareness and training program.

when visiting certain sites.

Blocking ads can reduce that risk.

End users are top targets, so everyone in your organization needs to be aware of the threat of ransomware and how it's delivered.

Use content scanning and email filtering to detect threats before

and outgoing emails.

2. Scan and filter all incoming

they reach end users.

as perimeter firewalls. This allows authorized users and 3. Enable strong spam filters.

users.

4. Block ads. 5. Configure internal as well Ransomware is often distributed through malicious ads served

> workloads to access data, while blocking access to known malicious IP addresses.

6. Logically separate networks.

user and server is on the same network, the most

(internal traffic). This provides anomaly detection

7. Inspect east-west traffic

of certificates when traffic is encrypted.

Detect command and control (C&C) traffic by using threat

8. Inspect north-south traffic.

intelligence to identify malicious IPs, domains and more.

Dynamically analyze file behaviors for threats by using Al to detect malicious code.

9. Scan network artifacts.

on organizational value. Implement physical and logical

10. Categorize data based

separation of networks and data for different organizational units. privilege to manage accounts. Users should not be assigned administrative access unless

absolutely needed.

11. Use the principle of least

control on critical systems. Default-deny policy for

12. Use application

non-approved programs and scripts to stop ransomware before it can access your critical assets.

13. Patch operating systems, software and firmware on devices. Consider using a centralized

patch-management system.

discovery and remediation processes.

14. Establish vulnerability

regularly. Verify the integrity of

the restoration process to

15. Back up data

penetration test and vulnerability assessment.

ensure it's working. 17. Conduct an annual

backups. Ensure backups are not connected permanently to the

16. Secure your offline

computers and networks they are backing up.

Secure your multi-cloud network with the strongest defense against ransomware. Start now by visiting bigcloud.presidio.com

Presidio and VMware collaborate to accelerate our shared customers' digital transformation journeys.

THE PRESIDIO AND VMWARE PARTNERSHIP

Presidio combines its strategic consulting and lifecycle services with VMware's innovative technology platforms, to design, implement and manage agile, secure, multi-cloud solutions optimized for each customer's unique requirements. Together, Presidio and VMware help our customers realize better business outcomes in a dynamic and competitive marketplace.



September 10, 2019 ^{2.} VMware Carbon Black. "Global Incident Response Threat Report." Tom Kellermann, Greg Foss. October 2020.

References:

Lealth Services Research. "Data Breach Remediation Efforts and Their Implications for Hospital Quality." Sung J. Choi, M. Eric Johnson, Christoph U. Lehmann.

© 2022 Presidio, Inc. All rights reserved. Terms.