



A SANS 2020 Report | Pervasive and Unrelenting: Ransomware Special Report

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Ransomware is a [fast-growing threat](#) affecting thousands of government agencies, municipalities and critical [ICS/SCADA](#) operations. Most recently it has spread to affect smaller organizations as well. Because most forms of ransomware take advantage of known vulnerabilities, the question is: Why does it still succeed? This whitepaper and webcast will explain why and how ransomware is spreading across these more vulnerable organizations and delve into US-CERT advice on [preventing ransomware attacks](#) and NIST guidance on [detecting and recovering from ransomware](#):

US-CERT (Prevention)	NIST (Detection and Recovery)
Vulnerability management (assess, patch and update, monitor changes)	Implementation of an architecture for integrity mechanisms all the way down to the firmware layer
Email and endpoint security, browser isolation	Network baselining and monitoring
User training (caution with links and attachments, verify senders and change passwords once an infection is detected)	Logging and analysis
Secure backups	Reporting and forensics

This paper will also provide advice about [RiPlace ransomware](#), which circumvents ransomware protections by abusing the way security products handle the file Rename operation.

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About the Author



Justin Henderson, SANS Certified Instructor

[Justin Henderson](#) is a certified SANS instructor who has authored the SEC555 (SIEM with Tactical Analytics) course and coauthored SEC455 (SIEM Design and Implementation) and SEC530 (Defensible Security Architecture). He is a blue-team cyber defender who is passionate about making defense fun and engaging. Justin specializes in threat hunting via SIEM, network security monitoring and ad hoc scripting.

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<p>Associated Panel Discussion Webcast</p> <p>The author will host a panel discussion with up to three sponsors discussing the SANS 2020 ransomware special report. The webcast will be promoted by SANS. Sponsors will receive the webcast recording for their own promotions. 100-lead guarantee with no cap.</p> <p><i>Limited to three sponsors</i></p> <p><i>Webcast Date: TBA</i></p>		✓

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Webcast: Promotion of the webcast will begin once the webcast has been scheduled. The webcast will be promoted via a weekly email blast to SANS opt-in audience, SANS e-newsletters and social media.

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