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Higher Education Virtual Conference

Legislative and regulatory landscape: What could lie ahead for colleges and universities

-Tom Netting, TEN Government Strategies

TUESDAY, FEBRUARY 9, 2021

- Labor, Health and Human Services, Education and Related Agencies Appropriations
- Coronavirus Response and Relief
 Supplemental Appropriations Act of 2021
- FAFSA Simplification



- Labor, Health and Human Services, Education and Related Agencies Appropriations
 - Increase in Federal Pell Grant (\$22 Billion)
 \$150 Increase in the Maximum Federal Pell Grant (\$6,495)
 - Increases in Other Federal Grant Assistance Programs (TRIO, SEOG, & FWS)
 - FAFSA Simplification
 - Ability to Benefit
 - Postsecondary Transfer Articulation Agreements



- Coronavirus Response and Relief Supplemental Appropriations Act of 2021
 - Additional Education Stabilization Funds (\$22,6 Billion)
 - 89% (\$20,200,451,040) to each institution of higher education as defined in section 101 or section 102(c) of the HEA to prevent, prepare for, and respond to coronavirus;
 - 7.5% (\$1,702,285,200) for additional awards under parts A and B of title III, parts A and B of title V, and subpart 4 of part A of title VII of the HEA to address needs directly related to coronavirus, that shall be in addition to awards made in subsection (a)(1); and
 - 3% (\$680,914,080) to institutions of higher education as defined in section 102(b) of the HEA.



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FAFSA Simplification

- Needs Analysis
- Student Aid Index
- Cost of Attendance
- SFA Administrator Discretion
- Student Eligibility
- Second Chance Pell

16 TITLE VII—FAFSA 17 SIMPLIFICATION

- 18 SEC. 701. SHORT TITLE; EFFECTIVE DATE.
- 19 (a) Short Title.—This title may be cited as the
- 20 "FAFSA Simplification Act".
- 21 (b) General Effective Date.—Except as other-
- 22 wise expressly provided, this Act, and the amendments
- 23 made by this title to the Higher Education Act of 1965
- 24 (20 U.S.C. 1001 et seq.), shall take effect on July 1, 2023,
- 25 and shall apply with respect to award year 2023-2024 and
- 26 each subsequent award year, as determined under the



BIDEN HARIS



Higher Education Platform

3 D Overview of HARRIS Education Platform

Biden is proposing a bold plan for education and training post-high school that will give hard-working Americans the chance to join or maintain their place in the middle class, regardless of their parents' income or the color of their skin.

- Invest in community colleges and training to improve student success and grow a stronger, more prosperous, and more inclusive middle class.
- Strengthen college as the reliable pathway to the middle class, not an investment that provides limited returns and leaves graduates with mountains of debt they can't afford.
- Support colleges and universities that play unique and vital roles in their communities, including Historically Black Colleges and Universities and Minority-Serving Institutions.





Access/Affordability

- Provide two years of community college or other high-quality training program without debt for any hard-working individual looking to learn and improve their skills to keep up with the changing nature
- Create a new grant program to assist community colleges in improving their students' success.
- Tackle the barriers that prevent students from completing their community college degree or training
- Invest \$8 billion to help community colleges improve the health and safety of their facilities and equip their schools with new technology.
- Invest \$50 billion in workforce training, including community-college business partnerships and apprenticeships.





Access/Affordability (Cont'd)

- Double the maximum Federal Pell Grant award for low-income students.
- Make public 4-year colleges and universities tuition-free for all families with incomes below \$125,000 a year (adopts Sen. Sanders's College for All proposal).
- Direct funds to public and nonprofit colleges and universities and minority-serving institutions based on proportion of low-income students those institutions enroll and graduate.
- Establish new federal grant program to help community colleges create emergency grant programs for students who experience unexpected financial challenge that threatens their ability to stay enrolled.
- Restore formerly incarcerated individuals' eligibility for Federal Pell Grant.





Student Debt & **Loan Cancellation**

- Cancel student loans through executive action for students who went to "predatory schools" where a determination of misrepresentation or fraud is made by USDE, State Attorneys General or the
- Authorize up to \$10,000 in student debt relief per borrower for COVID-19 relief.
- Improve Public Service Loan Forgiveness program, including forgiving up to \$10,000 in student debt per year for up to five years.
- Allow individuals holding private loans to discharge them in bankruptcy.
- Change the tax code so that debt forgiven through the income-based repayment plan will not be taxed.





Student Debt & Loan Cancellation (Cont'd)

- Loan forgiveness for undergraduate tuition-related federal student debt from public colleges and universities for debt-holders earning up to \$125,000 a year, with appropriate phase-outs.
- Loan forgiveness for Public Servants or Teachers (PSLF/TLFP) and borrowers with a total or permanent disability.
- Pause monthly billing interest on federal student loans for people earning less than \$25,000, cap payments at 5% of discretionary income for those earning more than \$25,000 and forgive remainder after 20 years.





For-Profit Colleges

Stop for-profit education programs from profiteering off of students.

- The Biden Administration will require for-profits to first prove their value to the U.S. Department of Education before gaining eligibility for federal aid.
- Return to the "Obama-Biden" Borrower Defense to Repayment Rule, forgiving the debt held by individuals who were deceived by the worst for-profit college or career profiteers.
- Enact legislation eliminating the so-called 90/10 loophole that gives for-profit schools an incentive to enroll veterans and servicemembers.
- Strengthen the GI Bill Comparison Tool and School Feedback Tool to put an end to postsecondary institutions' predatory practices.





Regulatory Priorities

- Redefine and Extend the 90/10 Rule Requirements
- Reinstitute the Gainful Employment Rule
- Return to the "Obama-Biden Borrower's Defense Rule"
- Return to the "Obama-Biden Title IX Protections"
- Revise the Accreditation Requirements with Emphasis on NACIQI Oversight Rules
- Revisit the Incentive Comp Regulations and Extend Their Reach to Include All Third-party Servicers
- Revise and Extend Limits on Schools Ability to Transition from For-profit to Non-profit Status
- Reestablish and Enhance "Obama-Biden Loan Repayment Rate" Requirements





Proprietary Oversight 2.0

- Reestablishment of the Interagency Task Force Responsible for For-profit Oversight
- Reexamination of ACICS Recognition by National Advisory Committee on Institutional Quality and Integrity
- Repeal of New Borrower Defense to Repayment Assessment Process and Return to Obama-Biden Era Process
- Scrutiny of Use of Higher Education Emergency Relief Funds*









Executive Orders

Executive Orders

Inauguration Day – January 20, 2021

Extends the existing pause on student loan payments and interest for Americans with federal student loans until at least September 30, 2021

January 21, 2021

Directs the Department of Education and HHS to provide guidance for safely reopening and operating schools, childcare providers and institutions of higher education



Executive Orders

Yet to Come?

Halt on further implementation of Title IX regulations

Inclusion of DACA Students as eligible recipients of Higher Education Emergency Relief Fund grants

Write-off of portions of existing student loan debt (\$10-50K)





117th Congress



\$1.9 Trillion Economic Stimulus





Omnibus Budget Reconciliation





Reauthorization of HEA





Sustainable Performance Management in Higher Education

A Conversation with Employee Performance Expert Christopher D. Lee, Ph.D.



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Learning Objectives

After this session, you'll be able to:

- Discuss 21st Century management concepts
- Describe the value of the *Performance Conversations* approach in comparison to traditional appraisal methods
- Determine whether performance conversations are a fit for your institution
- Describe how the approach can work well with an increasingly dispersed workforce





Our Higher Ed Guest Christopher D. Lee, Ph.D.

HR SUPERSTAR

Practitioner – 25 years as a CHRO

Researcher – 15 years on performance topics

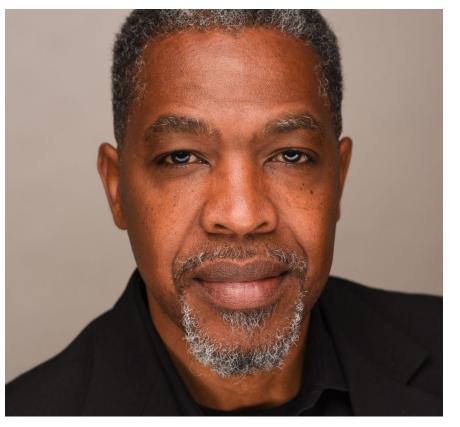
Author – 4 books

Consultant – for 75 organizations world-wide

Lecturer – @ Top 25 college

Question Writer – for PHR/SPHR exams

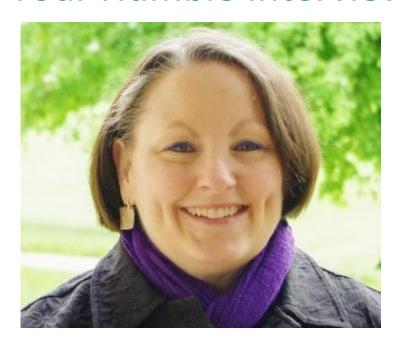
www.PerformanceConversations.com







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Sarah Conroy, SHRM-SCP, SPHR, CEBS Higher Education Consultant CLA Human Resources Consulting and Outsourcing





Our Conversation

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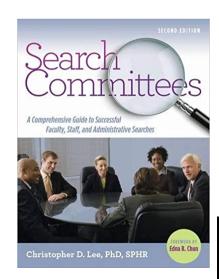
www.performanceconversations.com

For online courses, book orders, workshops and speeches





Other Works By Dr. Lee



Guiding Faculty Development

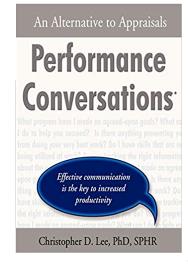
Tools to support productive dialogue among faculty and academic department and center leaders

Christopher D. Lee, Ph.D., SPHR for Rochester Institute of Technology April 18, 2014



How to Launch A Successful Job Search Campaign

Christopher D. Lee, Ph.D., SPHR
SearchCommittees.com





Contact Information

How to reach Chris

chris@performanceconversations.com

Christopher D. Lee | LinkedIn

How to reach CLA HRCO Higher Ed Team

sarah.conroy@claconnect.com







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Learning Objectives

- Recognize risks relating to remote access applications and security of devices and home networks
- Review the importance of updating risk assessments and policies including vendor management, business continuity plan and incident response policies
- Revisit an example of a recent major attack and the potential impact on higher education institutions







Gramm-Leach-Bliley Act

- Three laws covered under the Gramm–Leach–Bliley Act
 - Pretexting Rule
 - Access to information under false pretense
 - ♦ Addressed under the Red Flags rule
 - Privacy Rule
 - Protection of and security of nonpublic information
 - ♦ In compliant once IHE is following the Family Educational Rights and Privacy Act (FERPA) regulations
 - Safeguarding Rule
 - Addresses information security policies, risk assessments and controls in place to address the risks identified





Safeguards Rule Update

Safeguards Rule –

- The Rule was issued by the Federal Trade Commission (FTC) in 2002 with industry requirement in May 2003
- In 2015, the Department of Education included the GLBA safeguards rule compliance in its Title IV Program Participation Agreement
- In 2019 the DOE included a portion of the GLBA safeguards rule as part of the compliance supplement single audit for student financial aid testing





Safeguards Rule Requirement

Safeguards Rule –

- Section 314.4 of the Rule noted the following:
 - 1. Designating an individual to coordinate your information security program
 - 2. Identify internal and external risk to customers' information security, information confidentiality and, integrity
 - 3. Design and implement information to control the risks identified during the risk assessment and regularly test the controls
 - 4. Oversee service providers
 - 5. Evaluate and update information security program based on testing and monitoring procedures





Potential Updates include

- Information security program based on risk assessment
- Chief Information Security Officer
- Board reporting by the person in charge of the program
- Incident Response Plan





Potential Updates include

- Employee training
- Detailed information security measures
- Ongoing monitoring & testing of key controls
- Oversight of service providers





Potential Updates include

- Two additional specific requirements
 - ♦ Encryption
 - ♦ Multifactor authentication





Potential Updates to the Information Security Program

- ♦ Address access control
- ♦ Inventory of information
- ♦ Audit/logging
- Disposal of information
- ♦ Change management
- Monitor those authorized to use the data
- ♦ Secure development practices





DOE Communication to the FTC

Dear President:

During the period of December 2019 to December 2020, the Department of Education received your most recent Federal Student Aid audit report covering Title IV programs. This letter serves as a follow-up to our initial acknowledgement of receiving that audit.

Your audit contains a finding related to the Gramm-Leach-Bliley Act (16 CFR 314.3 (Standards for Safeguarding Customer Information). This finding will be referred to the Federal Trade Commission (FTC) Bureau of Consumer Protection Division Privacy and Identity Protection as investigative and enforcement authority for this finding falls within their jurisdiction. Additionally, we have also referred this finding to Federal Student Aid's Technology Directorate to determine if any additional action is necessary.

Program records relating to the period covered by this audit must be retained until the latter of resolution of any loan(s) claim(s) or expenditure(s) questioned in the audit, 34 CFR §668.24(e)(3)(i); or the end of the retention period applicable to the record under 34 CFR §668.24(e)(i) and (e)(2).

To review your previous correspondence from the eZ-Audit system regarding your audit, please log into your institution's account on the eZ-Audit website at http://ezaudit.ed.gov.

If you have any questions concerning your GLBA finding contained in your audit, please contact the Technology Directorate at FSA_IHECyberCompliance@ed.gov. For questions pertaining to any other finding, please contact the eZ-Audit Help Desk at FSAEZAudit@ed.gov.

Sincerely,

Program Eligibility and Oversight Service





Steps in Preparing for 2021 Audit

- Follow-up on recommendations from the 2019 and 2020 audit
- Prepare for third party oversight to be included in future audit
- Be in communication with your auditor today
- Complete the necessary assessments prior to yearend
- Review prior compliance supplement





Steps in Preparing for 2021 Audit

Review prior compliance supplement

11. Gramm-Leach-Bliley Act-Student Information Security

SFA - Title IV Programs

Compliance Requirements The Gramm-Leach-Bliley Act (Public Law 106-102) requires financial institutions to explain their information-sharing practices to their customers and to safeguard sensitive data (16 CFR 314). The Federal Trade Commission considers Title IV-eligible institutions that participate in Title IV Educational Assistance Programs as "financial institutions" and subject to the Gramm-Leach-Bliley Act because they appear to be significantly engaged in wiring funds to consumers (16 CFR 313.3(k)(2)(vi). Under an institution's Program Participation Agreement with the ED and the Gramm-Leach-Bliley Act, institutions must protect student financial aid information, with particular attention to information provided to institutions by ED or otherwise obtained in support of the administration of the federal student financial aid programs (16 CFR 314.3; HEA 483(a)(3)(E) and HEA 485B(d)(2)). ED provides additional information about cybersecurity requirements at https://ifap.ed.gov/fsa-cybersecurity-compliance.

https://www.whitehouse.gov/wp-content/uploads/2020/08/2020-Compliance-Supplement_FINAL_08.06.20.pdf



Steps in Preparing for 2021 Audit

Review prior compliance supplement

Audit Objectives Determine whether the institution designated an individual to coordinate the information security program; performed a risk assessment that addresses the three areas noted in 16 CFR 314.4 (b) and documented safeguards for identified risks.

Suggested Audit Procedures

- Verify that the institution has designated an individual to coordinate the information security program.
- b. Verify that the institution has performed a risk assessment that addresses the three required areas noted in 16 CFR 314.4 (b), which are (1) employee training and management; (2) information systems, including network and software design, as well as information processing, storage, transmission and disposal; and (3) detecting, preventing and responding to attacks, intrusions, or other systems failures.
- Verify that the institution has documented a safeguard for each risk identified from step b above.

https://www.whitehouse.gov/wp-content/uploads/2020/08/2020-Compliance-Supplement_FINAL_08.06.20.pdf







Summary and Current State of SolarWinds

- SolarWinds (SW) development/update process is compromised
 - Malware added to plug in component
- 2. Customers download and install SW update with back door malware
 - Legitimate appearing malware installed
- 3. Sophisticated malware "scans" location
 - Gathers information ("where am I")
 - Attacks/disables security tools
- 4. Malware "phones home"
 - Connects to Command and Control Server (C2)
 - Provides recon information and accepts instructions

- 5. Some organizations are subject to additional attack activity
 - Lateral movement/pivoting
 - Privilege escalation
 - Creation of additional/secondary persistence mechanisms
- 6. Objectives?
 - Gather and steal information?
 - Launch point for attack into other trusted systems?
 - ➤ Office 365?
 - Other trusted applications/systems?
 - Other trusted organizations?





Summary and Current State of SolarWinds

A. Sunspot

Malware designed to compromise software development process (at SolarWinds)

B. Sunburst

Backdoor inserted by Sunspot

C. Teardrop

Installed via Sunburst backdoor for additional follow on / focused attacks

D. Raindrop

- Loader that delivers Cobalt Strike
- NOT delivered by Sunburst
- Usually delivered/used later in compromise and privilege escalation process

E. Some organizations are subject to additional attack activity

- Lateral movement/pivoting
- Privilege escalation
- Creation of additional/secondary persistence mechanisms

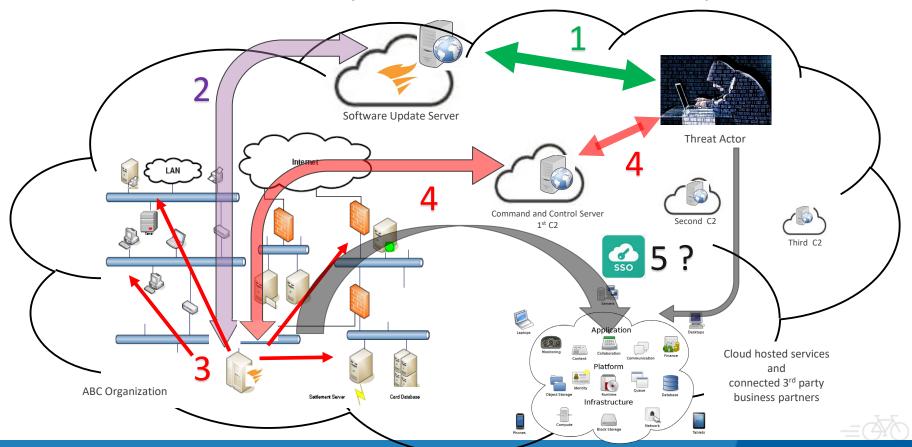
F. Objectives?

- Gather and steal information?
- Launch point for attack into other trusted systems?
 - ➤ Office 365?
 - Other trusted applications/systems?
 - Other trusted organizations?
 - "Golden SAML"





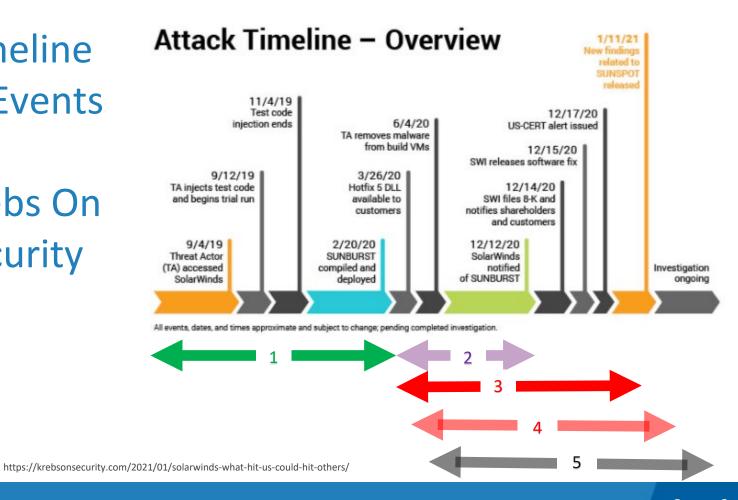
Picture in Your Minds Eye – SolarWinds Orion Compromise





Timeline of Events

Krebs On Security





Microsoft Timeline

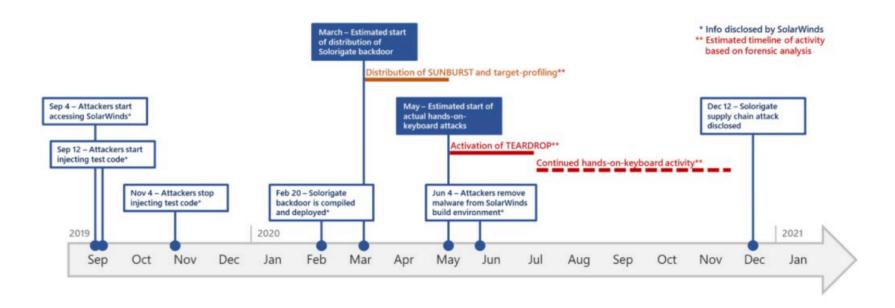


Figure 1. Timeline of the protracted Solorigate attack

https://www.microsoft.com/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop-activation-from-sunburst-to-teardrop-a



Take-Aways

- 1. Do we use SolarWinds Orion?
 - If $NO \rightarrow$ Go to 6
 - If YES → What version?
- 2. Is our version the affected version (see SW advisory)?
 - If $NO \rightarrow$ Go to 6
 - If YES → Continue
- 3. Have we created a timeline of potential exposure?
- 4. What logs do we have and how far back in time do they go?

- 5. What Indicators of Compromise (IOC's) have we searched for?
 - What resources/references have we used to identify known and potential IOC's?
 - Use 3 and 4 to search for IOC's
- 6. Do we have any third-party service providers with trusted access?
 - Who has remote access into our environment?
 - Who do we push our data out to?
 - Are there any persistent open connections to or from third parties?
- 7. Repeat 1-5 for those identified in 6



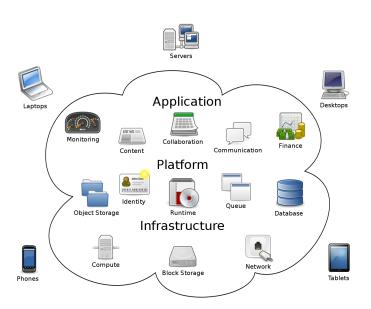
Take-Aways

- 8. "Know What Normal Looks like"
 - Easy to say... Challenging to execute
 - Server communication to the outside
- 9. Logs: DNS, Firewalls/Proxies, Windows...
 - Capture information about a newly-seen, unfamiliar domain in network traffic.
 - Leverage internal data sources and continuous DNS monitoring. Own-network defense is best augmented through visibility of own-network activity and traffic
 - Monitoring for new, unique, or abnormal network connections can identify C2 communication schema.
 - Proper asset classification which identifies specific hosts or host-type (e.g., "server" instead of "end-user client") can further differentiate communication to identify items of concern.
 - Similar classification can also work to identify unusual authentication activity,
 where servers (such as a SolarWinds Orion device) initiate logons to other
 clients instead of the reverse.



Take-Aways

- 9. Threat Hunting in Cloud Infrastructure
 - Mandiant Azure AD Investigator
 - CISA Sparrow
 - MS Azure Security Compass
- 10. Inhouse changes
 - Privileged accounts and service accounts
- 11. New information is being released every 2-3 days...







Microsoft Advisory

- https://msrc-blog.microsoft.com/2020/12/13/customer-guidance-on-recent-nation-state-cyber-attacks/
- https://www.microsoft.com/security/blog/2020/12/18/analyzing-solorigate-the-compromised-dll-file-that-started-a-sophisticated-cyberattack-and-how-microsoft-defender-helps-protect/
- https://msrc-blog.microsoft.com/2020/12/21/december-21st-2020-solorigate-resource-center/
- https://www.microsoft.com/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/

FireEye Advisory

https://www.fireeye.com/blog/threat-research/2020/12/evasive-attacker-leverages-solarwinds-supply-chain-compromises-with-sunburst-backdoor.html

SolarWinds Advisory

- https://www.solarwinds.com/securityadvisory

NSA Advisory

- https://media.defense.gov/2020/Dec/17/2002554125/-1/-1/0/AUTHENTICATION MECHANISMS CSA U OO 198854 20.PDF

KrebsOnSecurity

- https://krebsonsecurity.com/2020/12/vmware-flaw-a-vector-in-solarwinds-breach/
- https://krebsonsecurity.com/2020/12/solarwinds-hack-could-affect-18k-customers/
- https://krebsonsecurity.com/2021/01/solarwinds-what-hit-us-could-hit-others/





KrebsOnSecurity

- https://krebsonsecurity.com/2020/12/vmware-flaw-a-vector-in-solarwinds-breach/
- https://krebsonsecurity.com/2020/12/solarwinds-hack-could-affect-18k-customers/
- https://krebsonsecurity.com/2021/01/solarwinds-what-hit-us-could-hit-others/

Domain Tools

- https://www.domaintools.com/resources/blog/continuous-eruption-further-analysis-of-the-solarwinds-supply-incident

Crowd Strike

- https://www.crowdstrike.com/blog/sunspot-malware-technical-analysis/

Symantec

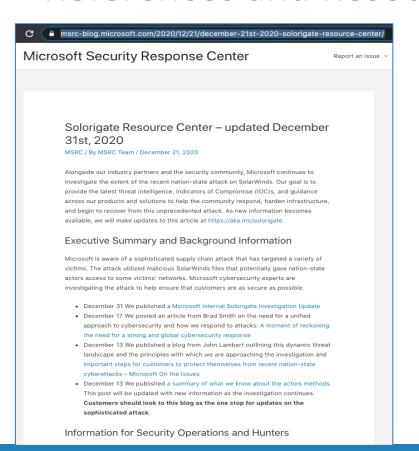
- https://symantec-enterprise-blogs.security.com/blogs/threat-intelligence/solarwinds-raindrop-malware

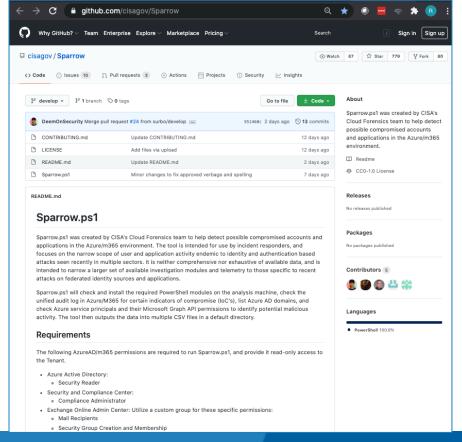
CLA Blog

- https://blogs.claconnect.com/Cybersecurity/solarwinds-orion-vulnerability/

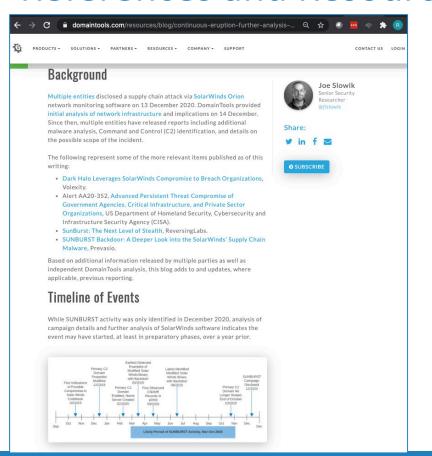


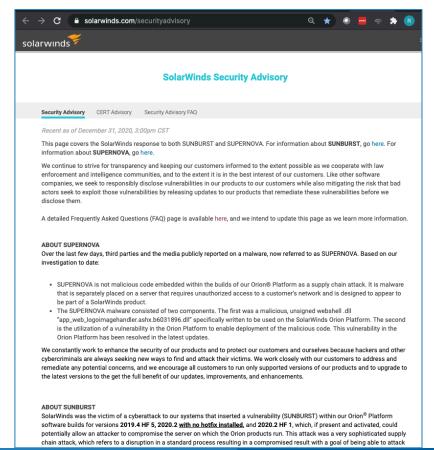














Thank you!

Randy Romes CISSP, CRISC, CISA, MCP, PCI-QSA **Principal – Cyber Security Team** Direct: 612-397-3114

Randy.Romes@claconnect.com

Kadian Douglas, CISA, CPA **Principal**

Direct: 813-384-2735

Kadian.Douglas@claconnect.com



CLAconnect.com







