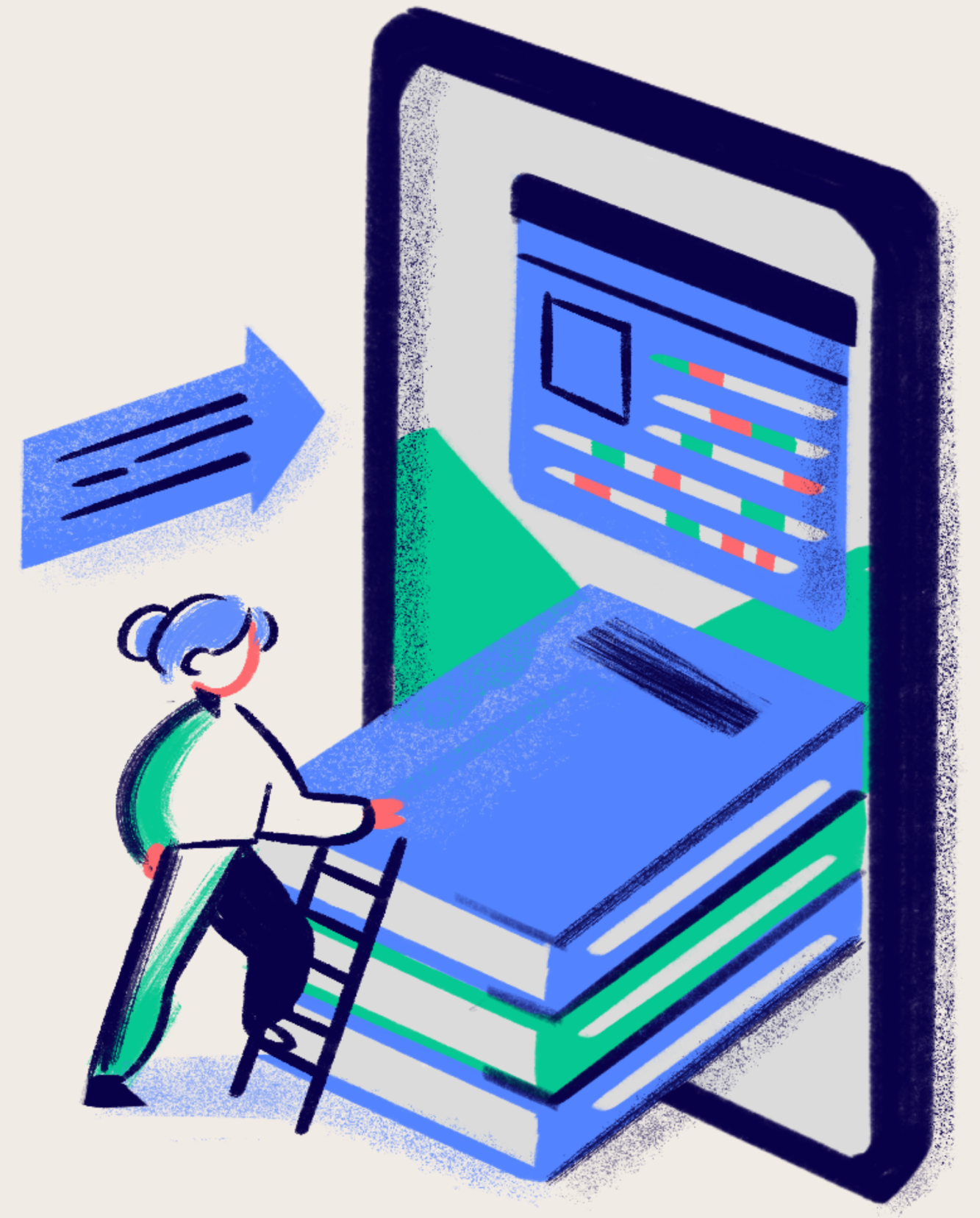


PRESENTED BY LCC CYBER DEFENSE TEAM

# THE ART OF SOFTWARE UPDATING

KEEPING UP WITH EVER-  
CHANGING SYSTEMS

[WWW.LSU.EDU/CYBERCLINIC](http://WWW.LSU.EDU/CYBERCLINIC)





## Updates Available

Do you want to install the updates now or try tonight?

Install

Later



Sleep



Update and shut down



Shut down



Update and restart



Restart



Power



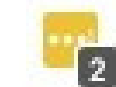
Windows Update



## Updates are available

Required updates need to be installed.

View updates



Update



CYBER SECURITY NEWS · 5 MIN READ

## Chain of Supply Chain Attacks as 3CX Was Compromised by Outdated Futures Trading Software



SCOTT IKEDA · APRIL 26, 2023



## LastPass Hack: Engineer's Failure to Update Plex Software Led to Massive Data Breach

Mar 07, 2023 Ravie Lakshmanan

Password Security / Software Update

## SolarWinds hack explained: Everything you need to know

Hackers targeted SolarWinds by deploying malicious code into its Orion IT monitoring and management software used by thousands of enterprises and government agencies worldwide.

No more silos  
It's time to evolve and  
for a safer network.

ANDY GREENBERG

EXCERPT

SECURITY AUG 22, 2018 5:08 AM

## The Untold Story of NotPetya, the Most Devastating Cyberattack in History

Crippled ports. Paralyzed corporations. Frozen government agencies. How a single piece of code crashed the world.



**80% OF CYBERATTACKS**

**VIA: MICROSOFT**

**40 NEW EXPLOITS SINCE  
JANUARY 1ST**

**VIA: CISA'S KEV DATABASE**

# What is a Vulnerability?

And how do we know which ones to worry about?

# Patched vs Unpatched software

Windows 7 VM  
Version  
2016

Windows 10 VM  
Version  
2023

*EternalBlue*  
Discovered  
&  
Patched  
Mar. 2017

*EternalBlue*  
Released  
Apr. 2017

*wannaCry*  
Ransomware  
May 2017

# UPDATING AND PATCHING

- Software and Applications
- Operating Systems
- Antivirus
- BYOD?

# WHAT TO DO IF YOU CAN'T UPDATE A SYSTEM

END OF LIFE

LACK OF COMPATABILITY

SOMEONE ELSE'S DEVICE (BYOD)

**Layering!**



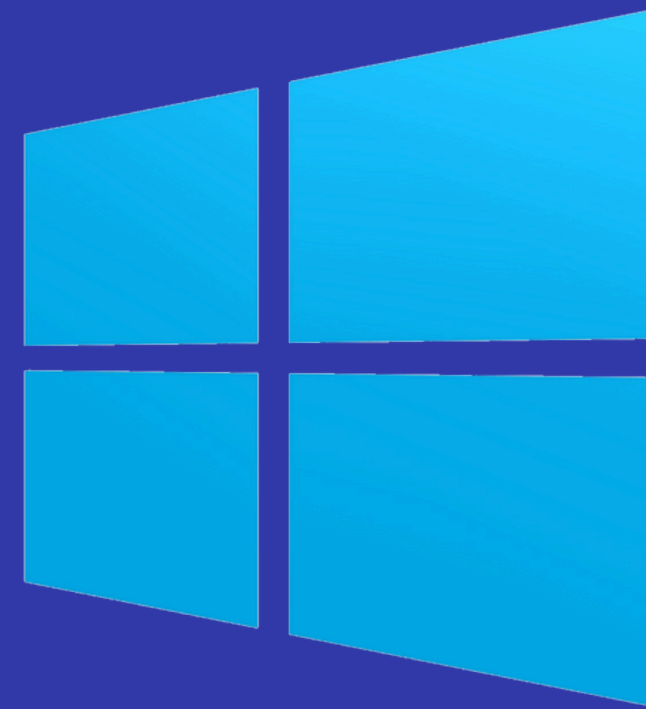


# EOL SOFTWARE – HOW TO HANDLE A LACK OF SUPPORT

- If something isn't updated anymore, is it still secure?
- What if I have applications that rely on it?
- How do I know if software is EOL?

# LTS SOFTWARE

- Sometimes, companies understand the need to maintain an old system
- This allows checking for compatibility before commitment
- Usually, released alongside short term, more experimental updates



# INVENTORYING SOFTWARE

- Tracks and manages all software assets in the company's infrastructure
- Allows you to keep track of everything you could possibly need to update
- Optimizes resource allocation and cost by managing software vulnerabilities



# UPDATE AUTOMATION

- Operating Systems can and should be automatically updated if not using EOL versions
- Operational Tech is the opposite, and should be updated with care



# TAKEAWAYS

**01.** What needs to be updated

**02.** Keeping inventory of your systems

**03.** Update automation