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# Practical Issues around Data Protection

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**Cheryl M. Burtzel**

*Partner, Cybersecurity and Data Privacy*  
Spencer Fane LLP

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Cybersecurity is no longer just an IT  
issue—it is an overall business risk issue.



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# The Real Threats

## Easily Avoidable Incidents

91% in 2015

91% in 2016

93% in 2017



- 63% confirmed breaches from weak, default, or stolen passwords
- Data is lost over 100x more than stolen
- Phishing used most to install malware

## Downtime from a Ransomware Attack is still the most Dangerous Complication

Average Days of Downtime

19

+19% from Q2 2020

Source: <https://www.coveware.com/blog/q3-2020-ransomware-marketplace-report>

## Most Common Causes & Solutions

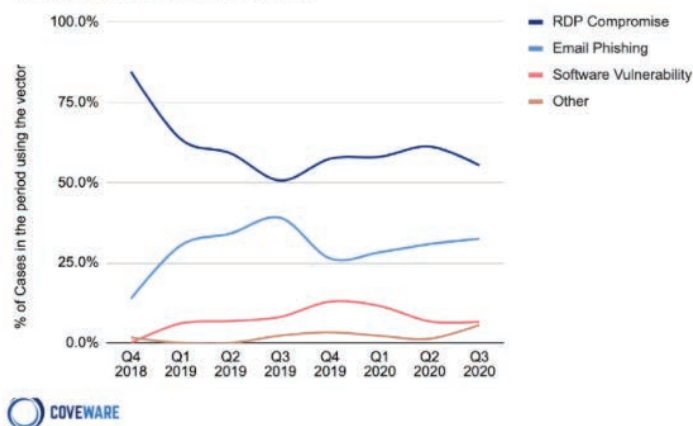
RDP Access	<ul style="list-style-type: none"><li>• This is random – scanning web for Internet facing RDP access</li><li>• Virtual Private Network (VPN) with Multifactor Authentication (MFA)</li></ul>
Phishing	<ul style="list-style-type: none"><li>• Email phishing tool</li><li>• Workforce training and simulated phishing</li></ul>
Unpatched / Outdated Software	<ul style="list-style-type: none"><li>• Install patches timely</li><li>• No unsupported software</li></ul>
Passwords	<ul style="list-style-type: none"><li>• Multifactor Authentication (MFA)</li><li>• Longer passphrases</li></ul>
Backups, Backups, Backups!	<ul style="list-style-type: none"><li>• 3-2-1 Backup Process</li><li>• Something comparable – you may end up with only your offline backup</li></ul>

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## Most Common Causes

Ransomware Attacks by Methods, Victims size, and Complexity

Ransomware Attack Vectors



Ransomware attack vectors: RDP compromise, email phishing, software vulnerability, and others.

Source: <https://www.coveware.com/blog/q3-2020-ransomware-marketplace-report>

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