CYBERSECURITY IN THE NEW NORMAL



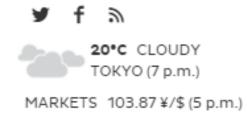
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CYBER SECURITY CONFERENCE







NEWS	OPINION	LIFE		COMMUNITY		
	NATIONAL	ASIA PACIFIC BUSINE	ESS	WORLD	REFERENCE	COLUMNS

ASIA PACIFIC / SCIENCE & HEALTH

Outbreak of SARS-like pneumonia being investigated in China

AFP-JIJI

☑ SHARE Dec 31, 2019

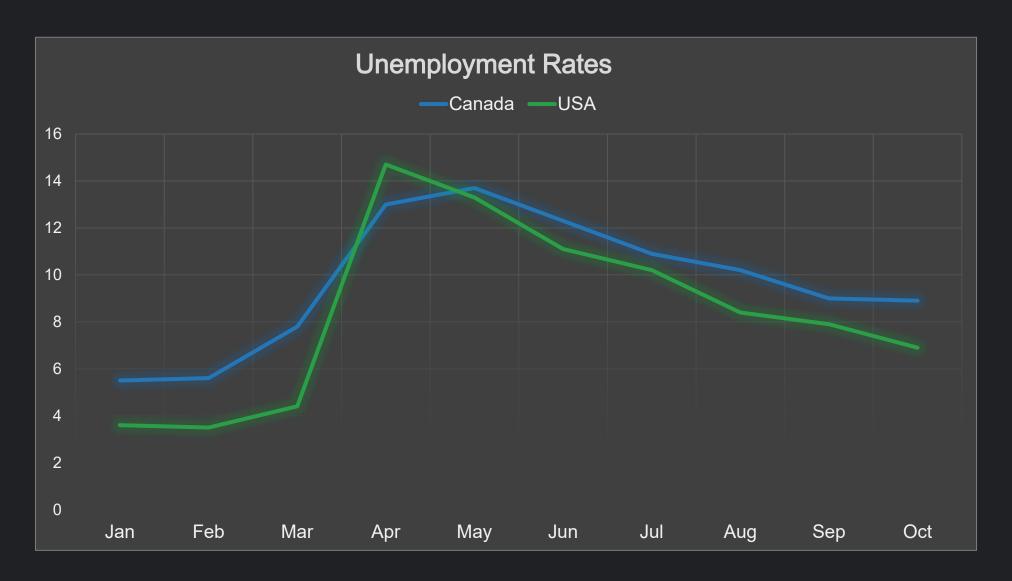
BEIJING - China is investigating an outbreak of atypical pneumonia that is suspected of being linked to severe acute respiratory syndrome (SARS), the flu-like virus that killed hundreds of people in the early 2000s, state media reported Tuesday.

A team of experts from the National Health Commission were dispatched Tuesday to Wuhan, in central China's Hubei province, and are "currently conducting relevant inspection and verification work," state broadcaster CCTV reported.

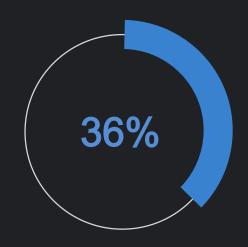
An emergency notification issued Monday by the Wuhan Municipal Health Committee said hospitals

The New Insider Threat

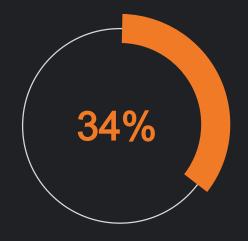
The New Unemployed



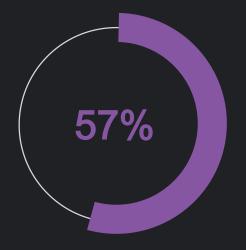
The New Freelancers



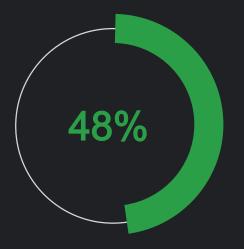
% of US Workers freelancing



% of freelancers who started due to pandemic



% of new freelancers providing skilled services



% of new freelancers who see freelancing as a long-term solution

The New Remote Work Normal

More Canadians working from home in October 2020 vs 2019



Businesses that do not include remote work risks in their security awareness program

Canadian businesses
that expect remote
working will remain
normal post pandemic



30% cau

Security incidents caused by insider threats

The New Insider Threat

Economic Downturn

Resulting in layoffs and inability to hire new full-time staff.

Remote Workforce

Resulting in staff who are no longer within the security perimeter.



Corporate Gig Economy

Resulting in influx of new, untrusted freelancers to corporate workforce.

Ineffective Awareness

Resulting in a need to rethink security awareness for a remote workforce.

The End of Endpoint Protection

The Old Normal

MALICIOUS CODE PROTECTION

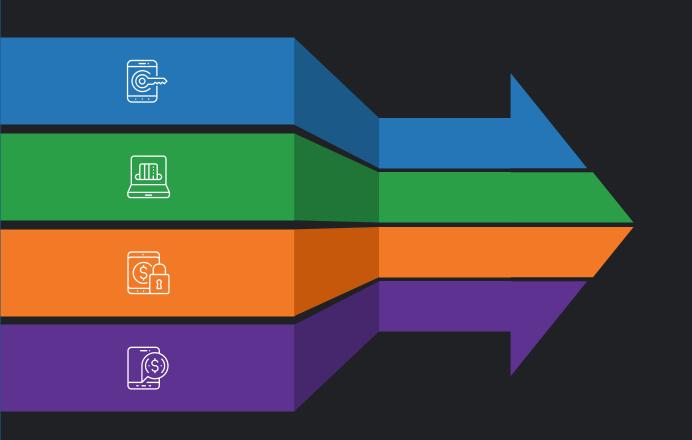
USER BEHAVIOR MONITORING

DATA LOSS PREVENTION

MANAGED RESPONSE



The Old Normal



\$12 Billion USD

Global endpoint protection market in 2019

Endpoints in the New Normal

Rush to enable work-from-home forced many organizations to accept BYOD

Adoption of permanent remote workforce likely to also make BYOD permanent

Slow death of VPN removes ability to enforce even basic endpoint security controls

Data Centers without Data

The Dark Cloud Around the Silver Lining

Companies that have adopted a "cloud-first" or "cloud only" strategy as of 2019

IT Leaders who believe that the pandemic has accelerated cloud adoption strategies

87%

IT Leaders who believe that almost all workloads will migrate to the cloud within the next 5 years

74%

Records exposed due to cloud security misconfigurations in 2018 alone.

990,000,000

Data in the New Normal

Accelerated Cloud Adoption



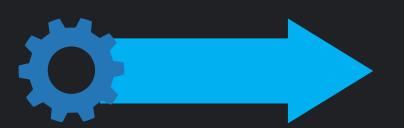
Data not protected by IT Security

Accelerated BYOD



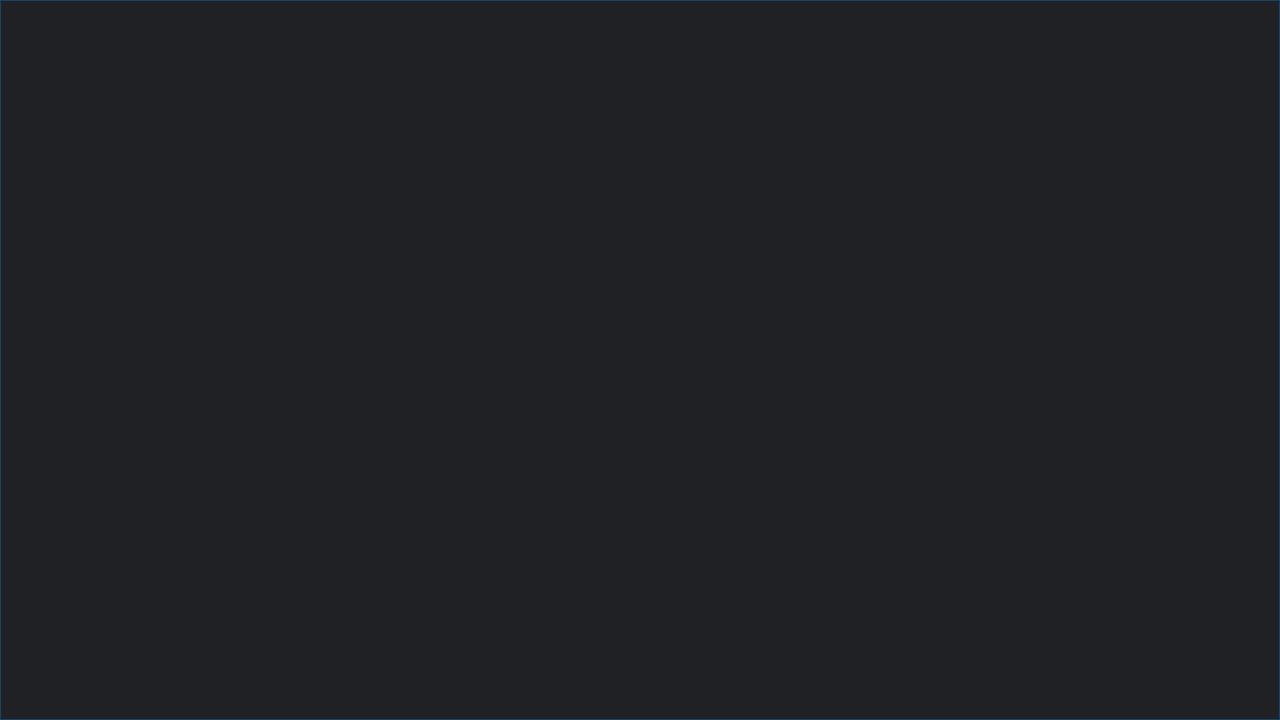
Data accessed by untrusted devices

Accelerated Remote Work

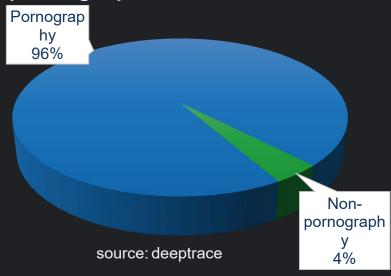


Data accessed by untrusted people

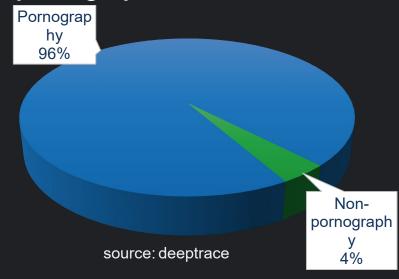
Wildcard Threat: Deepfake and Video Conferencing



96% of all online deepfake videos are pornographic in nature



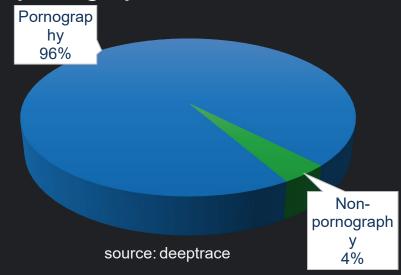
96% of all online deepfake videos are pornographic in nature



\$243,000
amount stolen using synthetic voice audio in one 2019 incident

source deeptrace

96% of all online deepfake videos are pornographic in nature



\$243,000
amount stolen using synthetic voice audio in one 2019 incident

source deeptrace

\$68,000,000

spent by US defense on deepfake detection technology in 2018

source futurism.com

\$10,000,000

contributed by
Facebook for the
'Deepfake Detection
Challenge'

source: facebook

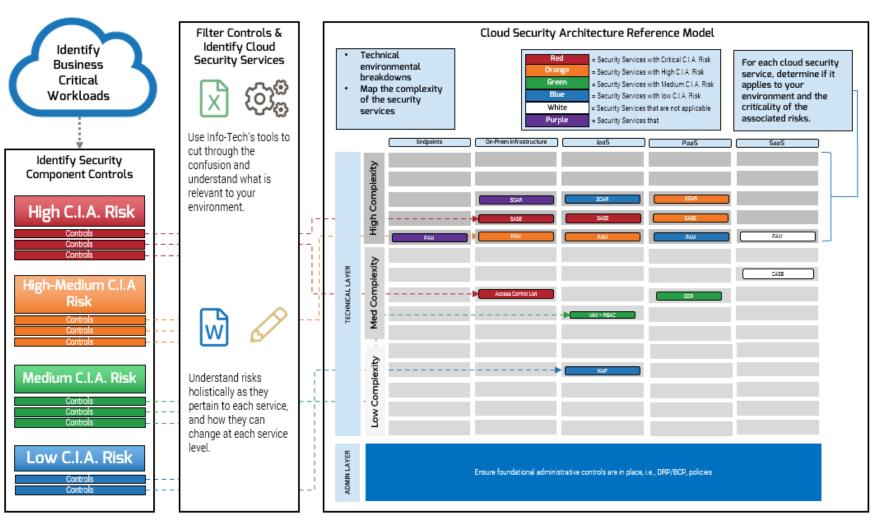
Recommendations

Identify Internal Strategies



Build a Cloud Security Architecture

IDENTIFY THE COMPONENTS OF YOUR CLOUD SECURITY ARCHITECTURE



Develop a Cloud Architecture Approach



/:\

Plot your identified risks to the Cloud Security Architecture Reference Model to understand your current environment, and what you're still missing.

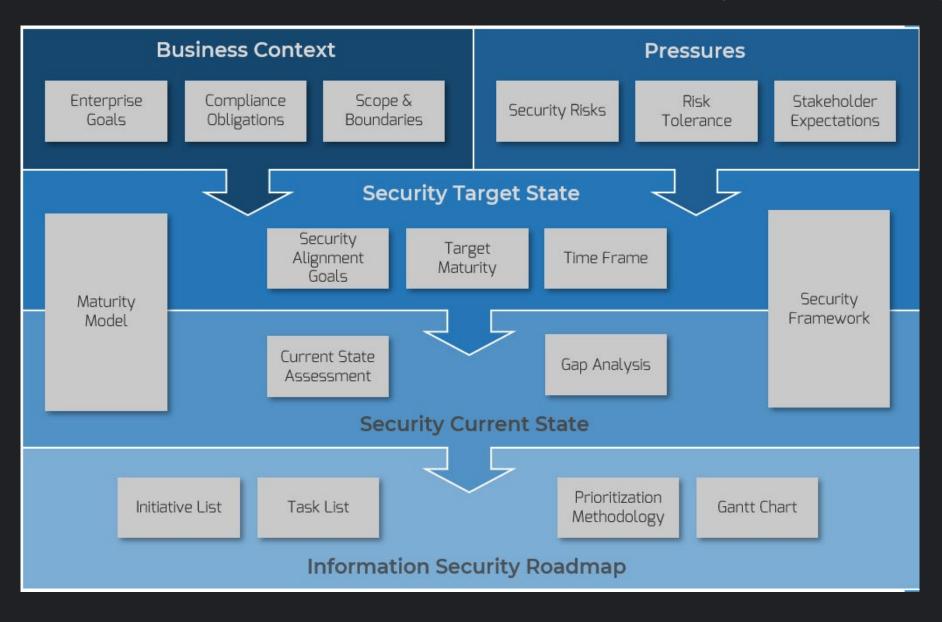




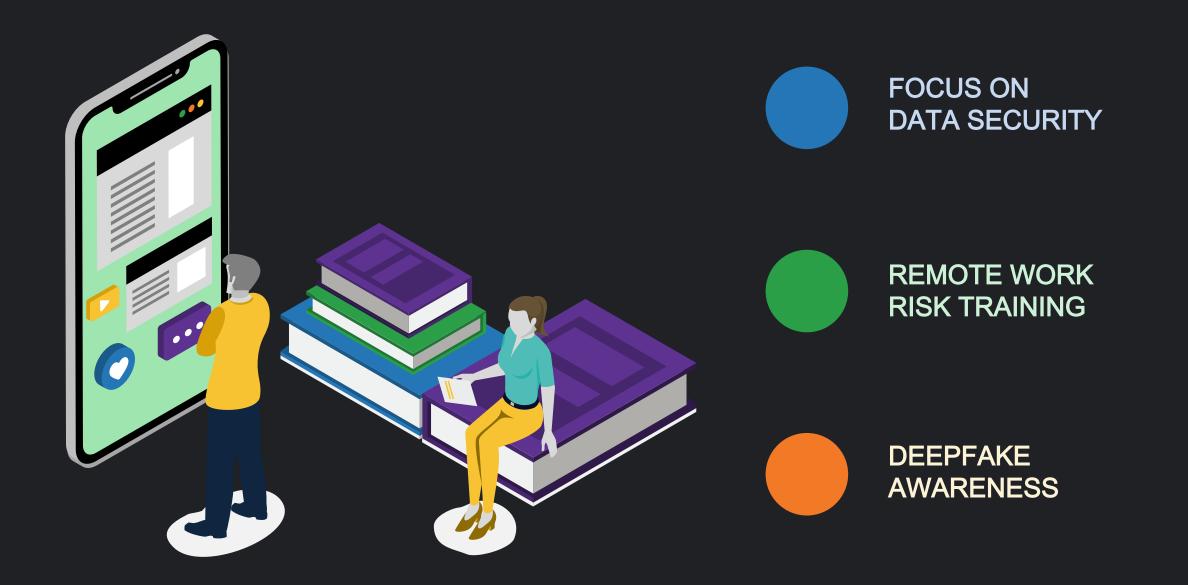
Codify the results of your environmental analysis in an easy to read communication deck. Plan your deployments with peace of mind.

Outcomes

Create a Data-Centric Security Strategy



Update Your Security Awareness Program



Thank you!

Questions? kpeuhkurinen@infotech.com