

Stay ahead of cybercriminals with secure data and reliable threat intelligence

Making Every Space a Secure Space

Nathaniel Moore

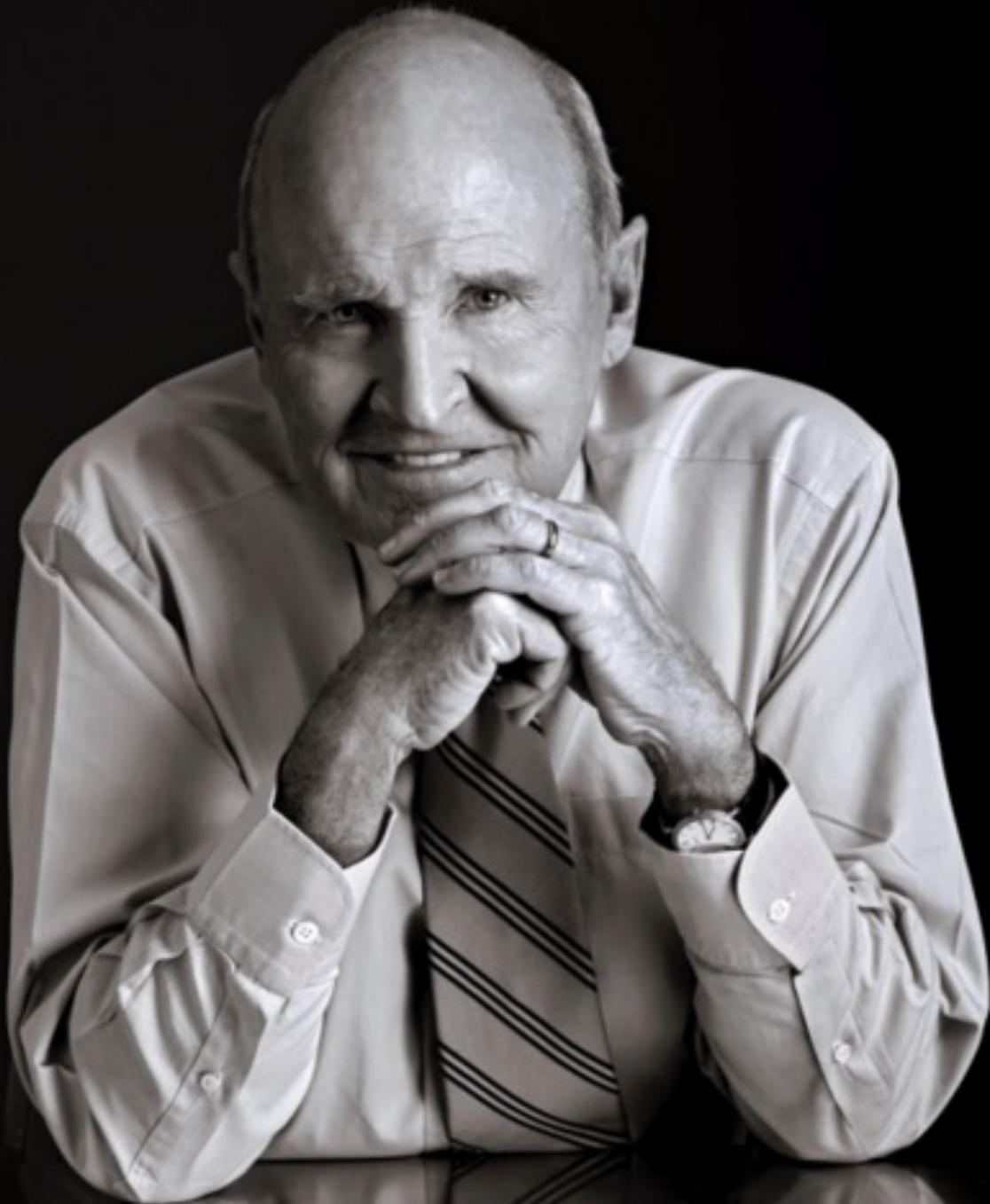
Consulting Systems Engineer, Fortinet

June 22, 2023

FORTINET[®]

COMCAST
BUSINESS

MASERGY



“

Change before you have to.

Jack Welch

”



STAY
HOME

PROTECT
THE NHS

SAVE
LIVES

72%

Of businesses technologically underprepared for shift to remote work

Source: Xerox Future of Work Survey Reveals 2020

2019: 12%

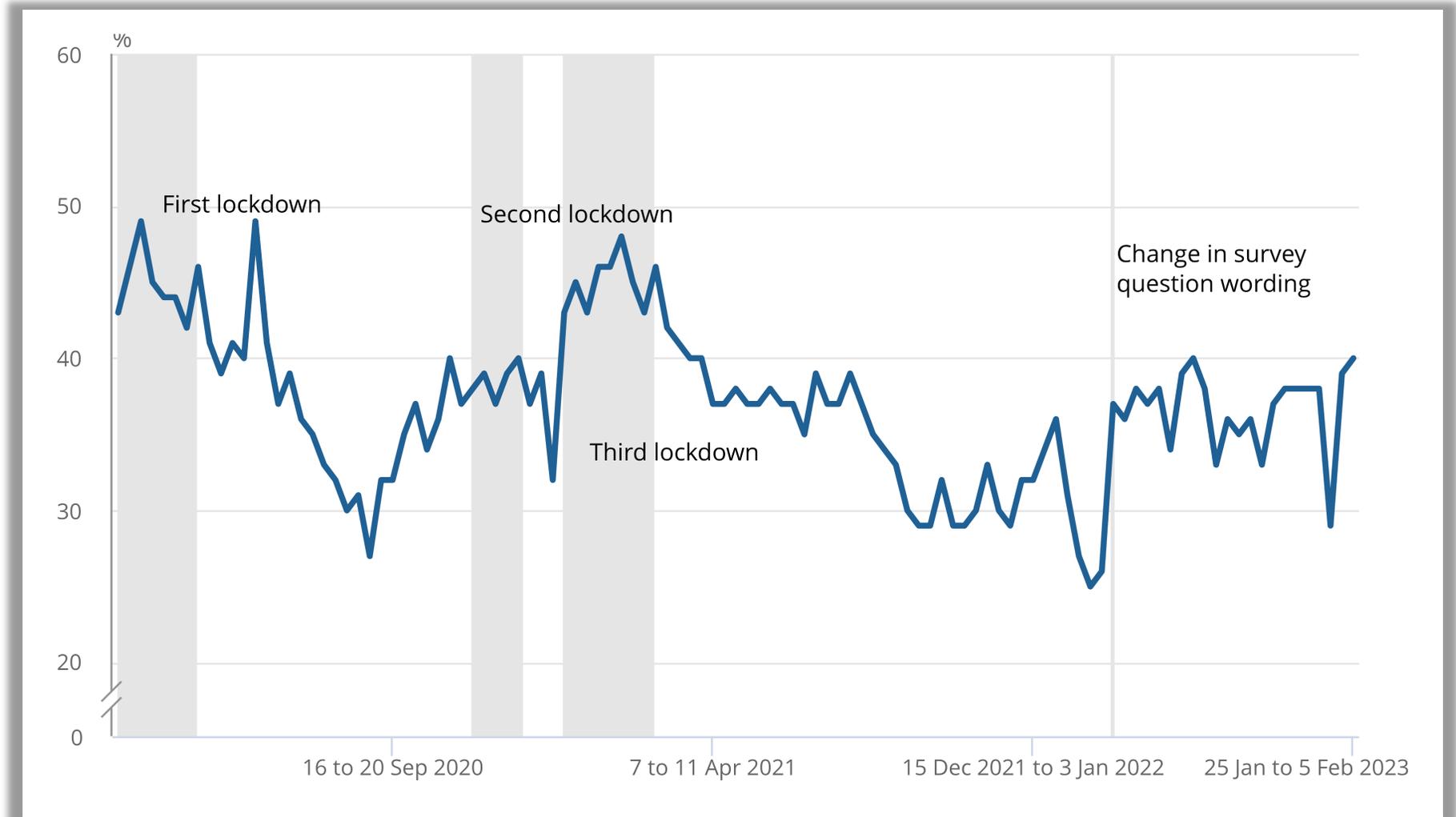
2020: 38%

2021: 37%

2023: 35%

Average number of UK residents working from home at least once per week.

Office for National Statistics (ONS) – Opinions and Lifestyle Survey (OPN)



Office for National Statistics (ONS) – Opinions and Lifestyle Survey (OPN)

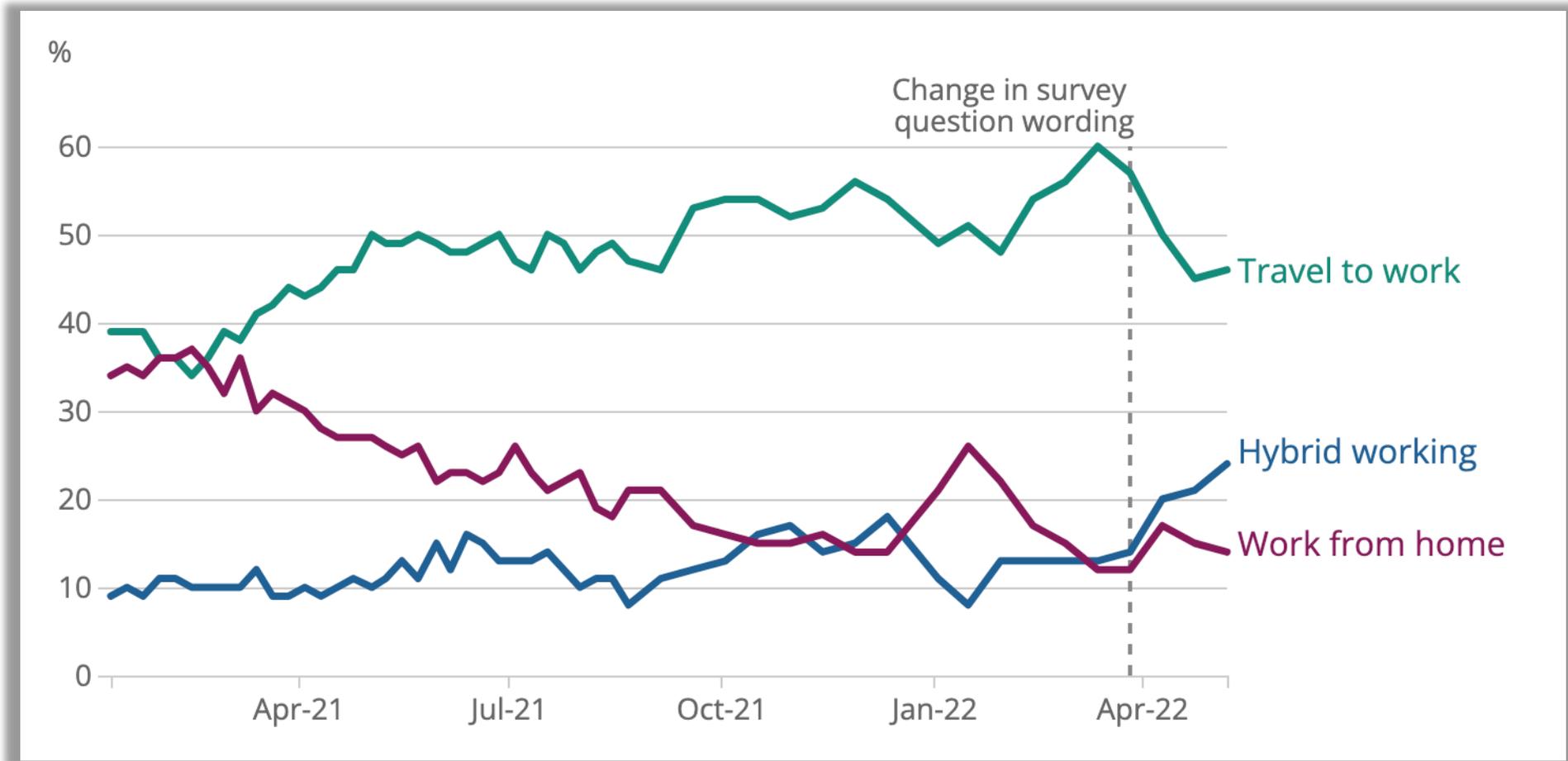


PRESIDENT PARK OUSTED
Park Geun-hye could be sent to prison

BBC NEWS

“A work model where employees are expected to attend the office at least one day per week while being permitted to work from a location other than the office some of the time.”

Source: Gartner Glossary – Hybrid Working



Source: Office for National Statistics – Opinions and Lifestyle Survey

3.1x

likelihood of
lower fatigue

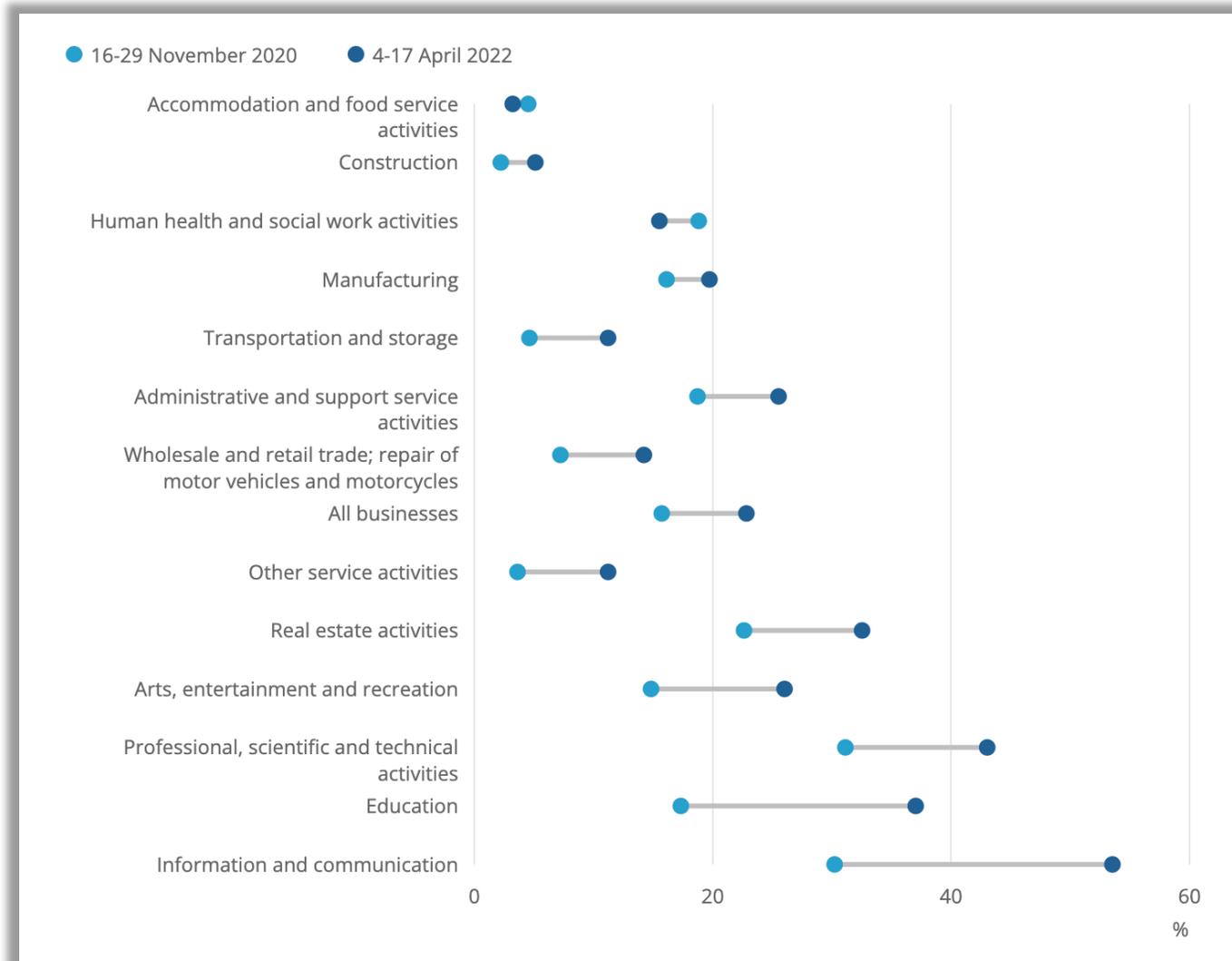
3.2x

likelihood of
high intent to stay

3.8x

likelihood of
high employee performance

Industries using, or intending to use, increased homeworking as part of a permanent business model (2020 vs. 2022).



Source: Office for National Statistics – Business Insights and Conditions

72%

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Source: Xerox Future of Work Survey Reveals 2020



“

The British nation is unique in this respect. They are the only people who like to be told how bad things are, who like to be told the worst.

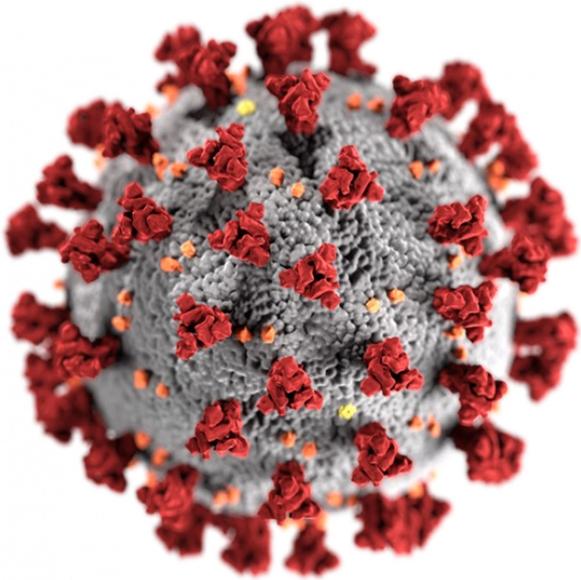
Winston Churchill

”

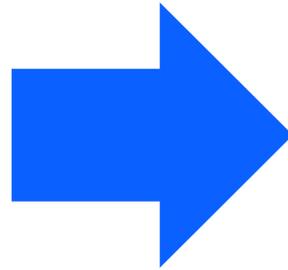
238%

increase in global cyberattack volume during the pandemic

Source: HP Wolf Security Blurred Lines & Blindspots



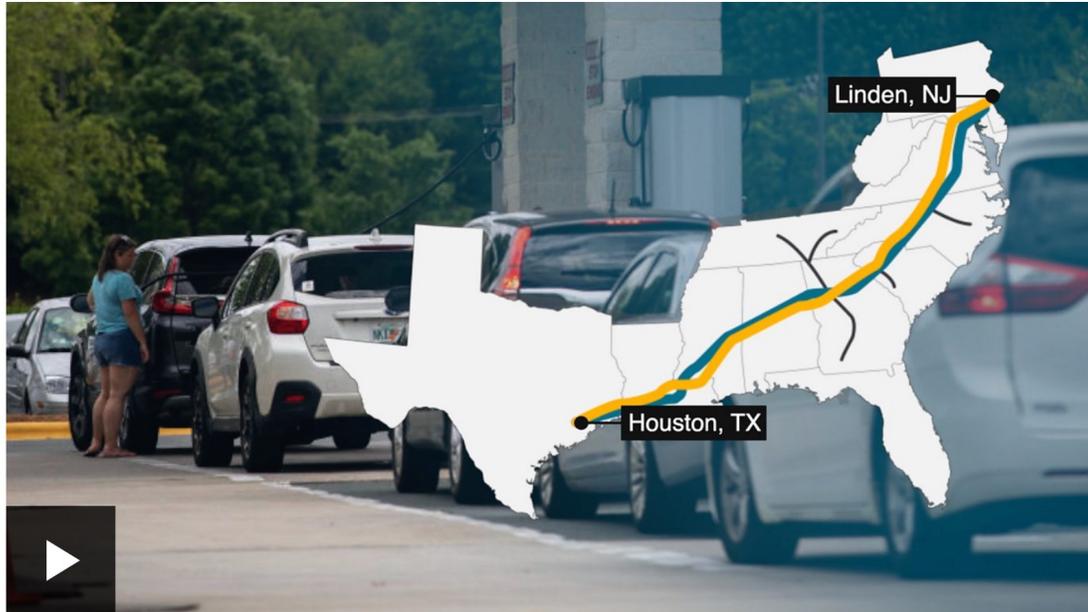
COVID Pandemic



Digital Pandemic

Colonial Pipeline boss confirms \$4.4m ransom payment

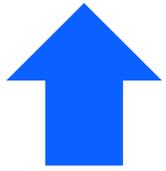
© 19 May 2021



| How did a cyber-attack lead to US petrol queues?

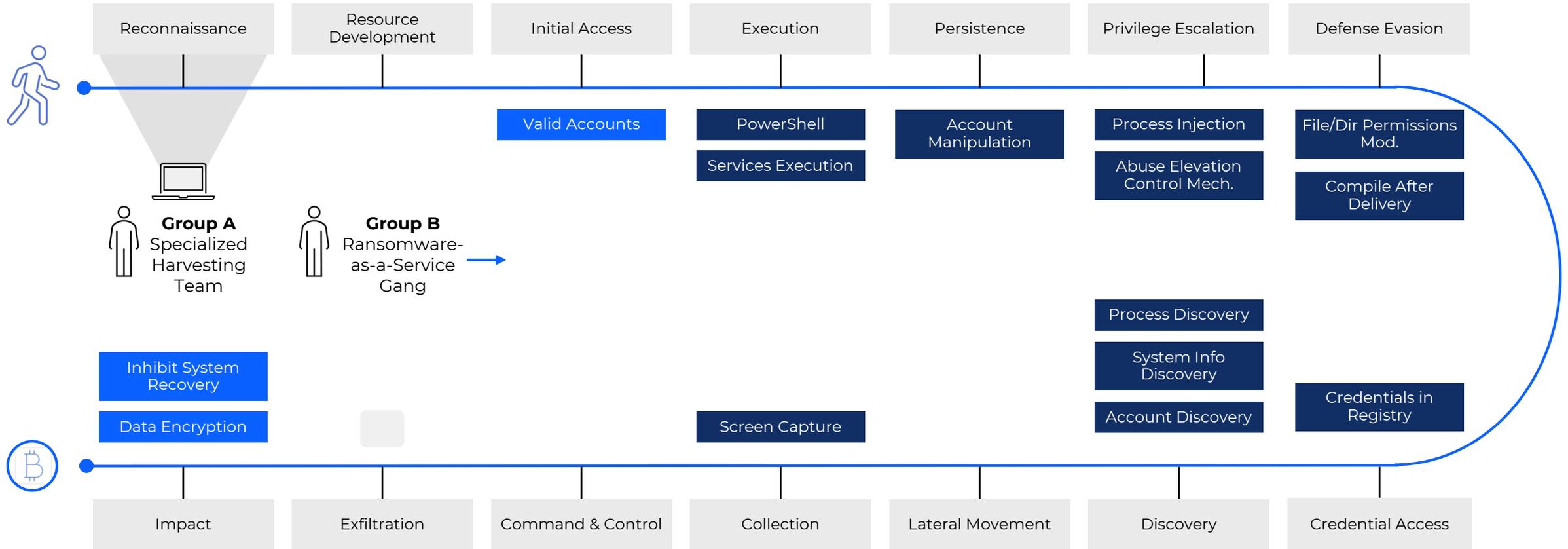
Colonial Pipeline has confirmed it paid a \$4.4m (£3.1m) ransom to the cyber-criminal gang responsible for taking the US fuel pipeline offline.

Source: BBC News

16% 
Ransomware Attacks

Source: Fortinet Global Threat Landscape Report H2 2022

MITRE ATT&CK® - DarkSide Ransomware



Based on analysis by Bridewell Consulting

The attack occurred using a legacy VPN that did not have multifactor authentication in place

<https://www.reuters.com/business/colonial-pipeline-ceo-tells-senate-cyber-defenses-were-compromised-ahead-hack-2021-06-08/>



This was **accomplished by targeting the DevOps engineer's home computer** and exploiting a vulnerable third-party media software package, which enabled remote code execution capability and allowed the threat actor to implant keylogger malware.

<https://support.lastpass.com/help/incident-2-additional-details-of-the-attack>



“

The only real mistake is the one from which we learn nothing.

Henry Ford

”

Let's Learn from LastPass:

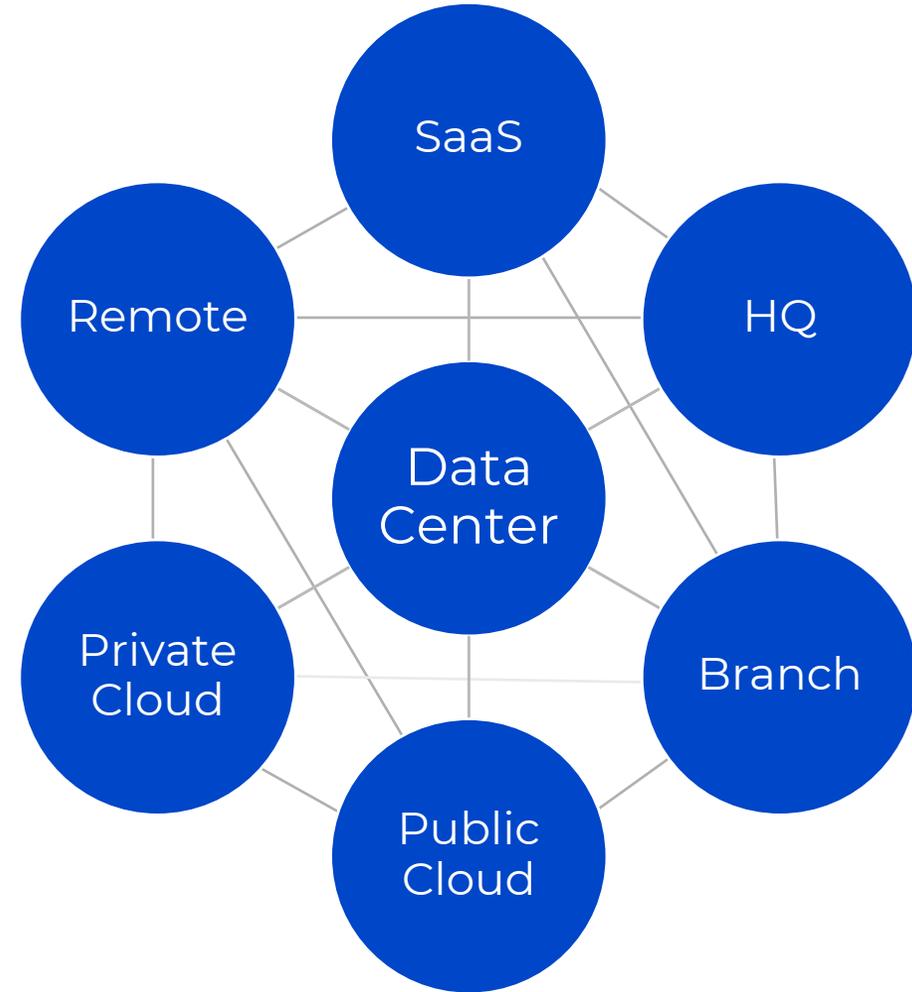
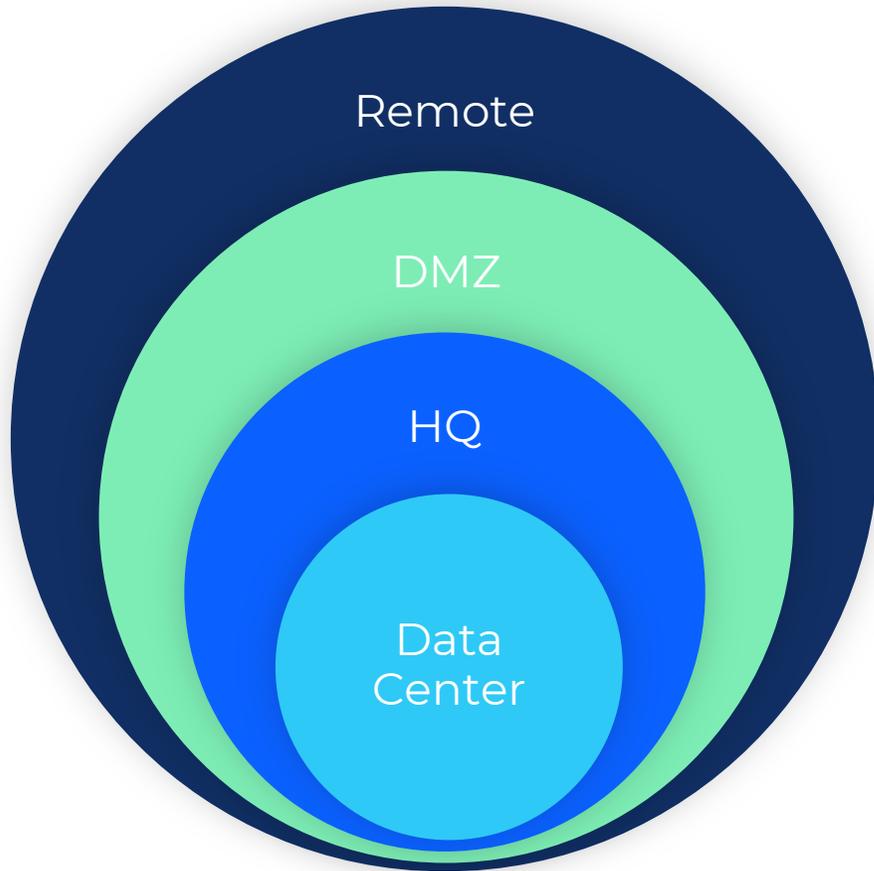
- ✓ **Multi-Factor Authentication**
 - ✓ **Endpoint Security**
- ✓ **Access Rights Based on Least Privilege**

Let's Learn from Colonial Pipeline:



- ✓ **Multi-Factor Authentication**
 - ✓ **Endpoint Security**
- ✓ **Access Rights Based on Least Privilege**
 - ✓ **Software Updates**
- ✓ **Phishing Filters & User Training**

<https://www.cisa.gov/news-events/cybersecurity-advisories/aa21-131a>



Zero Trust

"Change before you have to"

1 Continual Verification

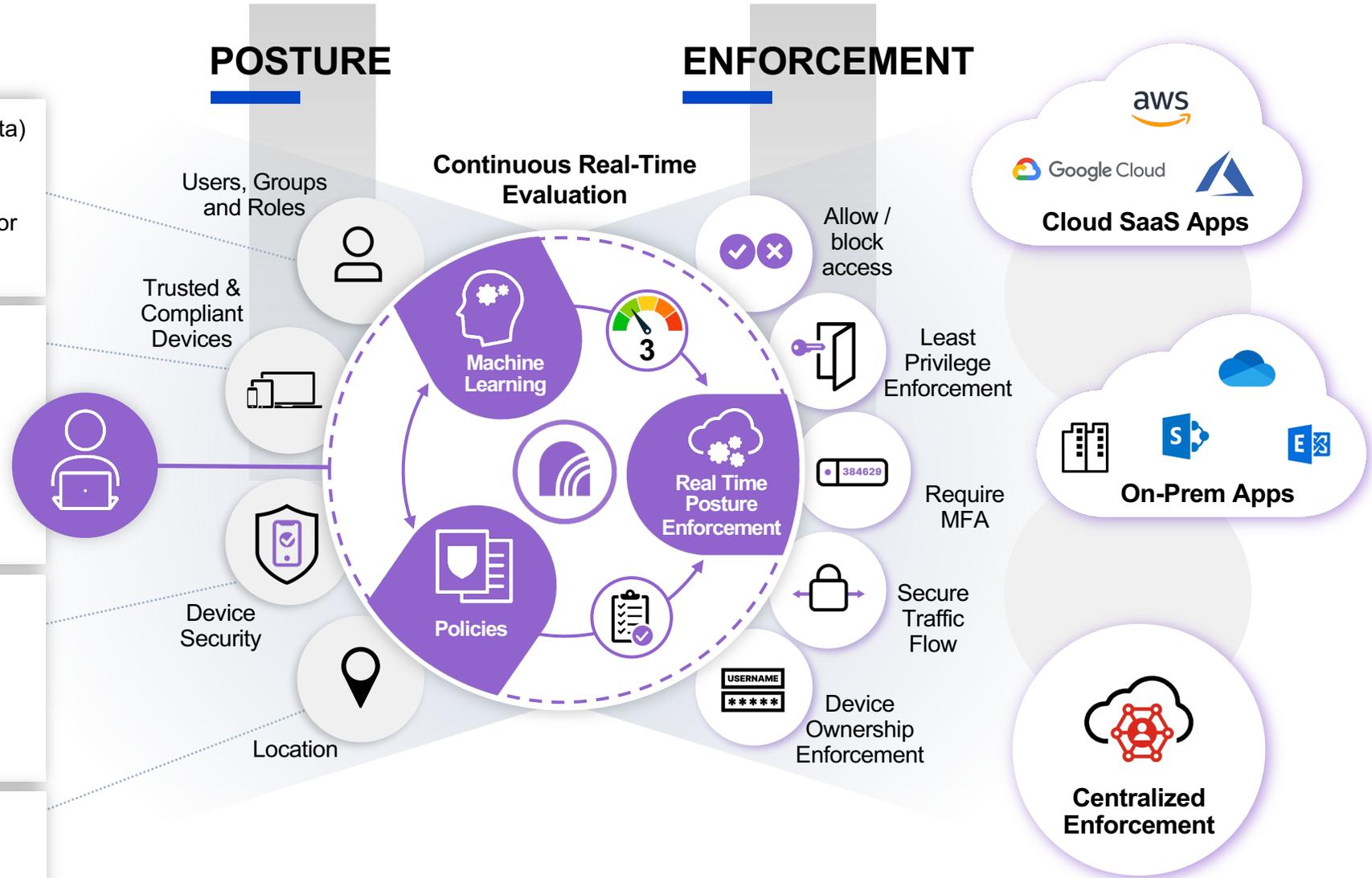
2 Least Privilege Access

3 Assume Breach

IDENTITY	<ul style="list-style-type: none"> SAML SSO (Okta) AD / AzureAD FortiAuthenticator Google ID
DEVICE	<ul style="list-style-type: none"> Windows MacOS Linux Android iOS
SECURITY	<ul style="list-style-type: none"> Anti-Virus Firewall Certificate Vulnerability
LOCATION	<ul style="list-style-type: none"> Geo-location On-net / Off-net

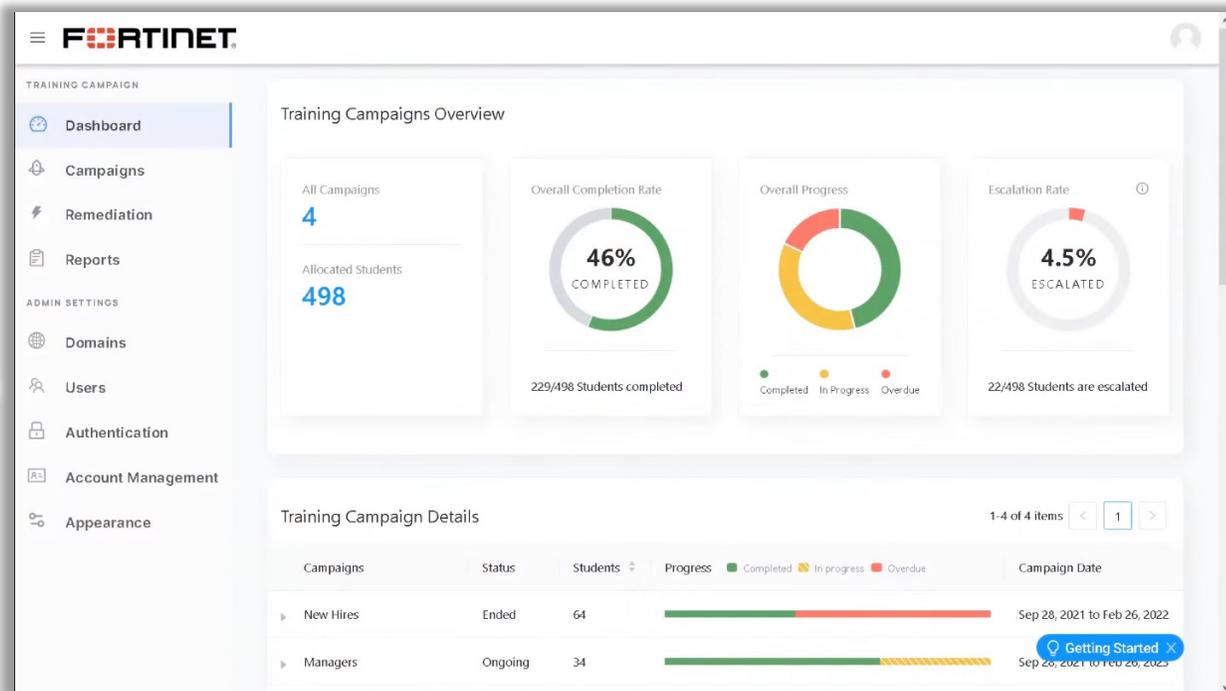
POSTURE

ENFORCEMENT



*“Blindly trusting that employees will do the right thing can lead to catastrophic consequences. To that end, **technology and employee training needs to be coupled together to maximize security efficiency.**”*

Source: Organizational Cybersecurity Post The Pandemic: An Exploration of Remote Working Risks and Mitigation Strategies, 2023





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+



Consistent User Experience

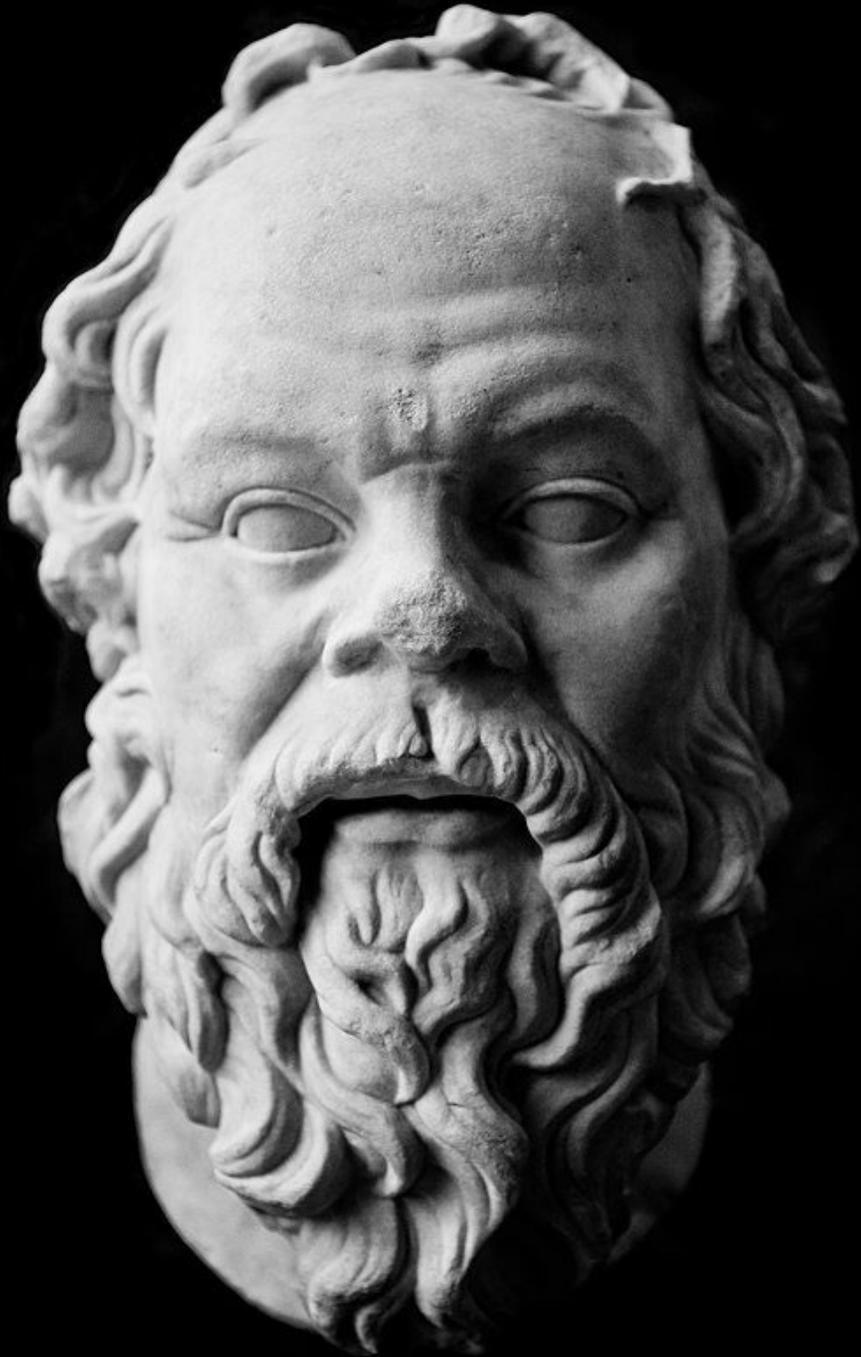


Infrastructure Flexibility



Security Posture Upheld





“

The secret of change is to focus all your energy not on fighting the old, but on building the new.

Socrates

”

Powering Possibilities™

Need more information, contact:

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