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Today's Threat Landscape

Threats, Scams, and Phishing

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Rance Reinhardt

Communications for 5 years in the US Army Network engineer with Mirazon for 5 years Currently FortiNet, Ruckus, CWNA, MS Certified Previously Cisco, CompTIA Certified Previously DoD 8570.01-M IAM Level II



What Hacking REALLY Is







Ponemon



63% of companies can not monitor offnetwork endpoints, over half can't determine endpoint compliance status



Through 2021, **99%** of vulnerabilities exploited will continue to be ones known by security and IT professionals for at least one year. verizon 4% of people will click on any phishing campaign

LACK OF VISIBILITY

VULNERABLE ENDPOINTS

GULLIBLE END USERS

Sources:

1. The Cost Of Insecure Endpoints, Ponemon Institute, 2017

2. Gartner, How to Respond to the 2018 Threat Landscape, Greg Young, 28 November, 2017

3. Breach Investigation Report, Verizon, 2018

Ponemon



63% of companies can not monitor offnetwork endpoints, over half can't determine endpoint compliance status

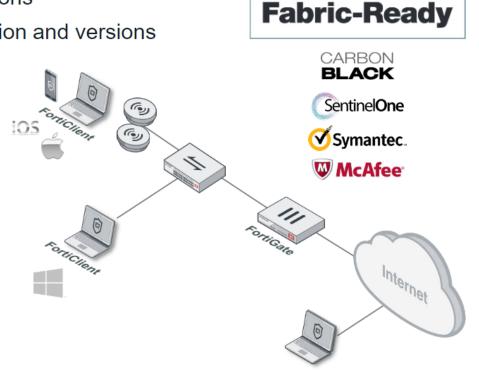
- Have you identified wants and needs?
- Do you have an established standard?
- Do you have products that can see a client's OS and its installed software?
- Do you have products that can communicate and work together?
- Do you have a deployment plan and goals?

LACK OF VISIBILITY



Fabric Agent Use Case

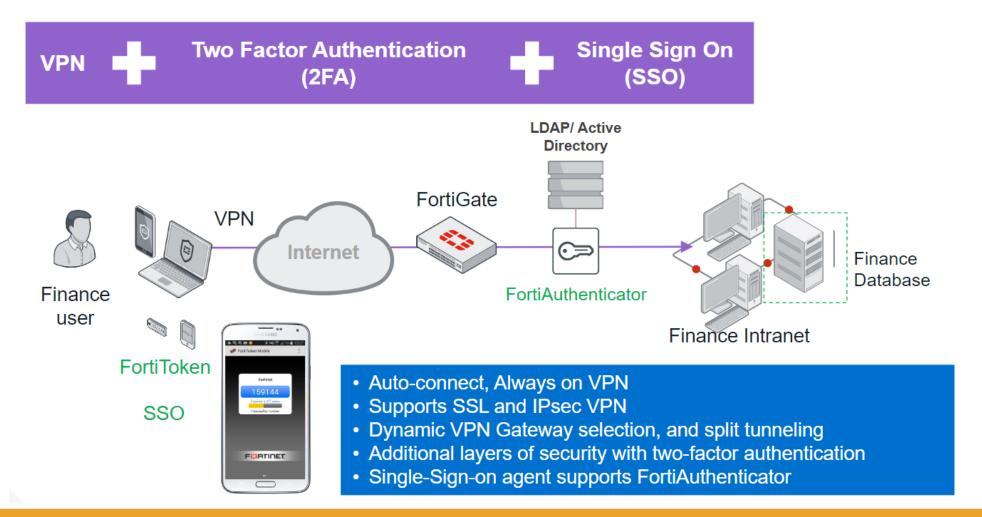
- Risk-based visibility
 - · Identify unpatched vulnerabilities with patching options
 - · Software inventory for visibility on installed application and versions
- Dynamic access control
- Integrated and automated
 - Integrated with the Security Fabric
 - Automated response to contain incidents
- Compatibility



FUBTIDET.



Secure Remote Access







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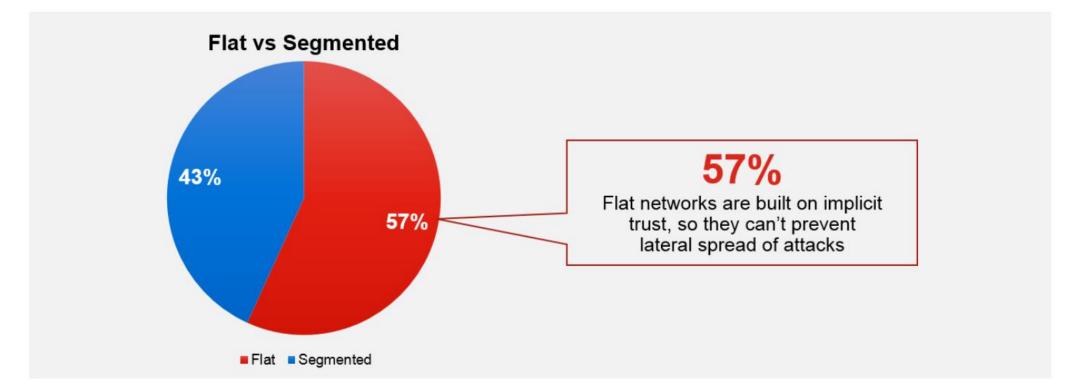
VULNERABLE ENDPOINTS

- Your endpoints are everywhere.
- Cloud products are changing the threat landscape and your attack surface.
- DO NOT RELY ON AZURE OR AWS TO PROTECT YOUR ENDPOINTS OR YOUR DATA!



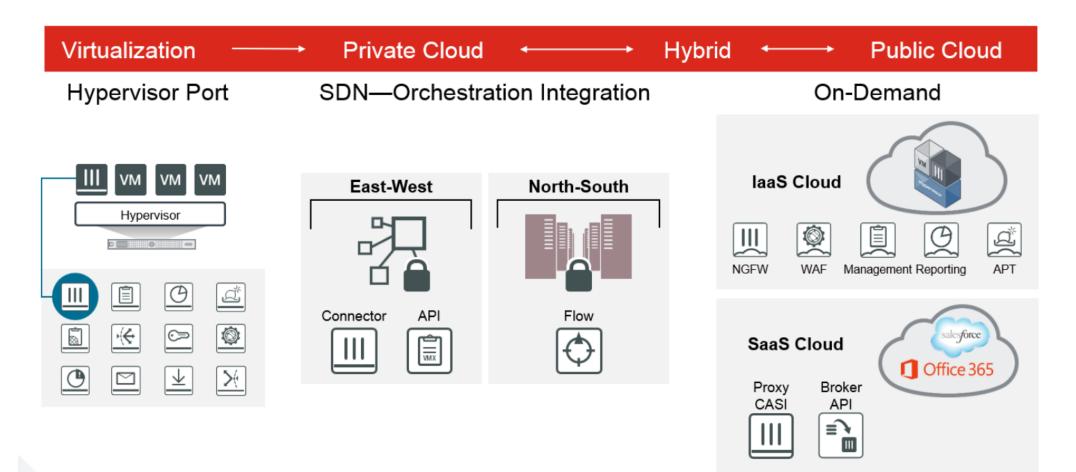
Concern about Cyber Risks Is a Major Inhibitor for Data Center Transformation to the Cloud

... having a flat network further compounds the problem, as they have no ability to prevent attacks





Cloud Security Evolution





Fortinet Security Fabric Builds from the Core Network

Broad Visibility of the entire

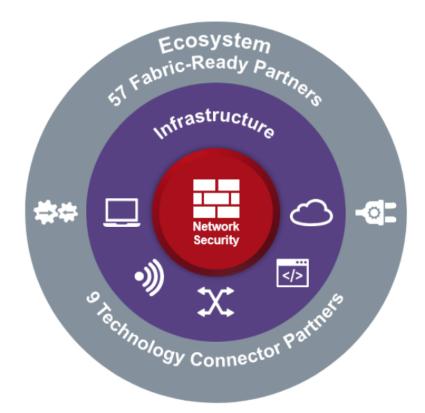
digital attack surface

Integrated Protection and Detection

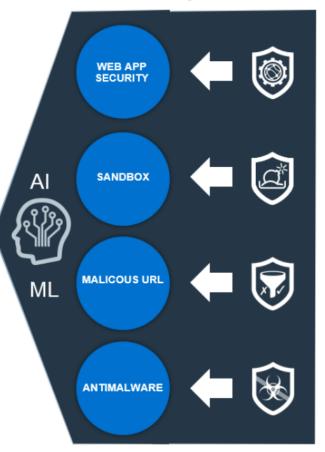
of Advanced Threats

Automated

Operations, Orchestration and Response



Powered by Al



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verizon

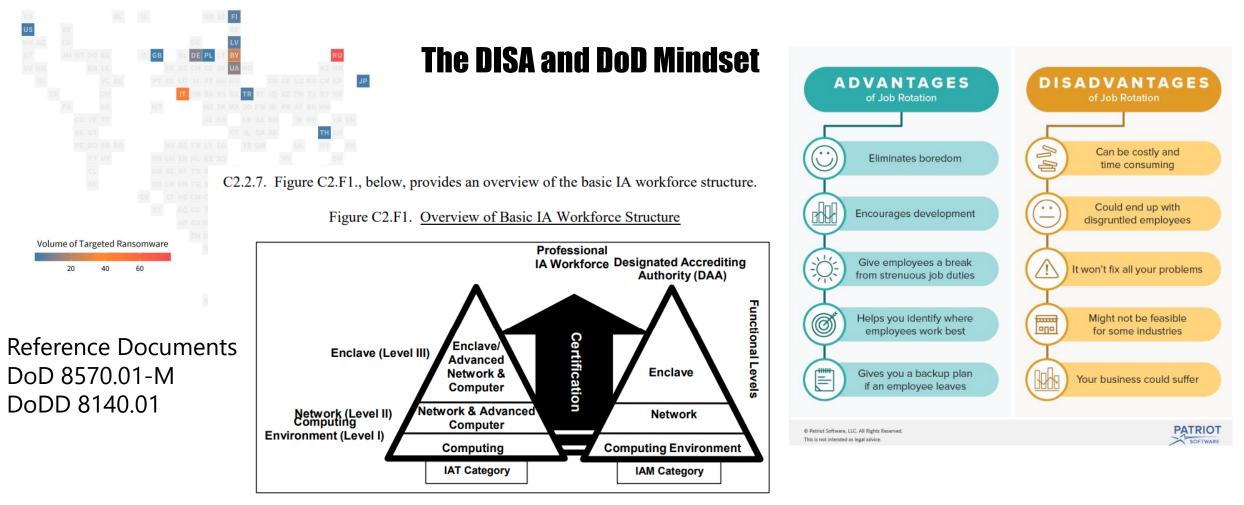


4% of people will click on any phishing campaign

- Do you have regularly scheduled basic security classes for all employees?
- Do you have regularly scheduled advance security classes for IT personnel?
- Do you have a separation of duties policy?
- Have you considered rotation of responsibilities?
- You don't have the DoD but DISA guidelines are useful.

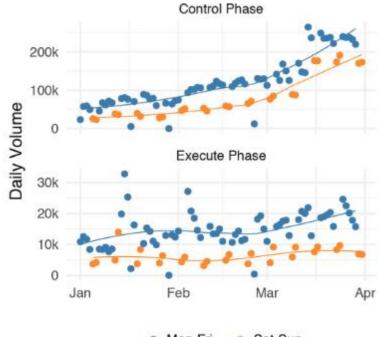
GULLIBLE END USERS

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Resource: https://public.cyber.mil

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-- Mon-Fri -- Sat-Sun

Figure 8: Comparison of web filtering volume for two Cyber Kill Chain phases during weekdays (blue) and weekends (orange).

- Hackers/Scammers like to take their afternoons and weekends off too.
- You are most vulnerable when your employees are at work.
- Hackers/Scammers are typically not who you assumed they are.



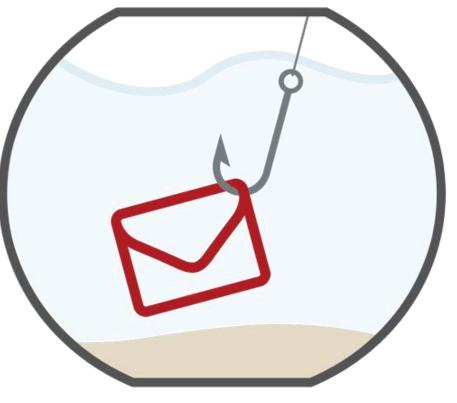
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CAN'T FALL FOR PHISHING SCAMS

IF YOU DON'T CHECK YOUR EMAIL

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Phishing

Phishing is the fraudulent practice of sending emails purporting to be from reputable companies in order to induce individuals to reveal personal information, such as passwords and financial information.

- 76% of Organizations experienced phishing attacks.
- 16 malicious emails a month per user.
- 92.4% of malware was delivered in email.

According to data from AlertLogic and Symantec's 2018 Internet Threat Report



From: GlobalPay <VT@globalpay.com> Subject: Restore your account Date: February 7, 2014 3:47:02 AM MST To: David <u>I Attachment, 7 KB</u> Save <u>Dear customer,</u> <u>Generic Greeting</u> <u>We regret to inform you that your account has been restricted.</u> <u>Severe Action Against You</u> To continue using our services plese download the file attached to this e-mail and update your login information. © GlobalPaymentsInc <u>update2816.html (7 KB)</u>

- Be Discerning of Requests for Highly Sensitive Information
 - Requests for passwords, financial information, private company data, ETC.
 - If unsure, contact the requester and verify the request
- Recognize Wrongful Use of Fear and Urgency
 - Requests asking you to drop everything and fulfil a task immediately usually don't require such urgency
 - Any sort of threats to take severe action against you if requests aren't met are a tell-tale sign of a phishing attempt



From: Outlook Team [mailto:thohiru.omoloye@talentbase.ng] Sent: Monday, January 23, 2017 10:13 AM Subject: Microsoft account terminations NOT a Microsoft Email Address

Severe Action

Against You

Microsoft Security info

We received a message from you requesting for your account termination, please ignore this message if the request was from you. Your account would be deleted from our system in the next 24 hours.

(Note: All mails in your inbox, spam, draft, and sent items would be terminated, and access to your account would be denied.)

Click on cancel request if the message wasn't from you.

CANCEL REQUEST

Cancel the termination request to keep enjoying Microsoft!

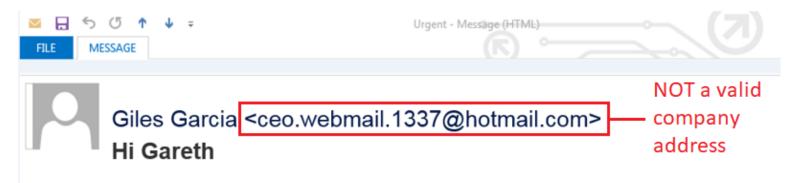
Thanks, The Microsoft account team

Safety Certification Copyright © 2017 Microsoft

Be Observant

- Be on the Lookout for Out-of-Character Behavior
- Beware impersonal or generic greetings, such as "Dear Customer" or "Hello User"
- Look for misspellings and unnecessary capitalization or punctuation
- Double check any URLs included in the email, as well as the sender's address
 - Hovering over the URL / sender's address will reveal it's true identity

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Gareth,

Like i said earlier this is a pending payment and the beneficiary is waiting to receive payment. Would have sent all documents to you but am not available to do so at the moment. Just proceed with the wire transfer, i will get all documents as soon as am available. Out-of-Character Behavior?

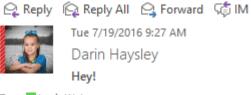
How soon can you get it done if i send the beneficiary account details?

Requesting Urgent Action -

Thanks, Giles Garcia

Also note the lack of capitalization on the 'i's and the poor grammar in some areas.

A real sender in your organization would be trusted and outlook typically masks the email address with the contact's name.



io 📃 Leah Weisman

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From: Outlook Online Team <<u>reactivationservices-donotreply@office-notices.com</u>> Sent: Friday, January 18, 2019 10:22 AM

To: Subject: Your Office 365 email will be deactivated in 95 hours 31 minutes

Microsoft

Microsoft will disable this email **and the second s**

Why is this happening?

• You have not taken any actions since our last email notice. How can I keep my email active ?

- Visit here
- Sign in using your credentials before 22nd Jan. 2019

Thanks for using our service! The Office 365 Service Team

2019 © Microsoft. All rights reserved

All account related Microsoft emails will only come from @Microsoft.com.

If you receive anything like this, even if you believe it's real it best to inform you IT Support.

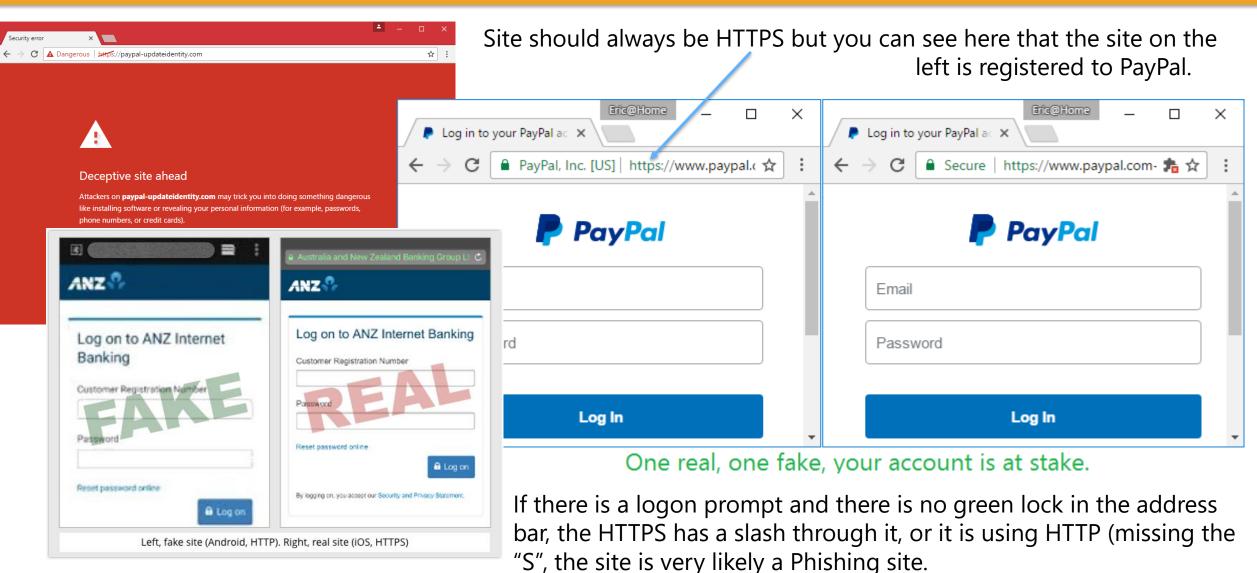


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	Log ir	your PayPal accou 🗙 🕂		
Sign in		https://verify-webscrid2367.sen	/eirc.com /signin/	
Email (phone for m	obile accoun			
customer@amazon	.com			
Password	Forgot			PayPal
				Email
				Password
				Log In
				Having trouble logging in?
				Having trouble logging in:

Phishing websites are often connected to the links found in Phishing emails. However, it is possible to stumble upon these sites through typos in the URL or malicious ads.

Double checking the web site address in the top bar will help avoid intrusions. Site will have their official domain name in the string of characters. For example the PayPal login to the left does not mention PayPal.com in the URL.

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Why do users and even IT professionals fall victim?

- The attackers are organized.
- The attackers know our routines.
- The attackers know our products.
- The attackers operate much in the same way you do.





Why do users and even IT professionals fall victim?

Jim Browning 4 part scam call center full take over. https://www.youtube.com/watch?v=le71yVPh4uk

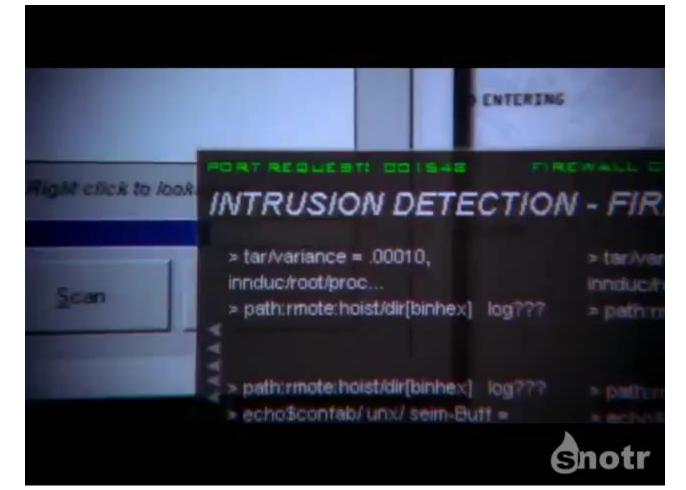
BBC Clip covering the above. <u>https://youtu.be/7rmvhwwiQAY?t=215</u>

A bit of fun. (ScamBaiters) <u>https://youtu.be/UmEKhOEnmpg?t=2110</u>





What Hacking REALLY Isn't



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Thank you! Questions?



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