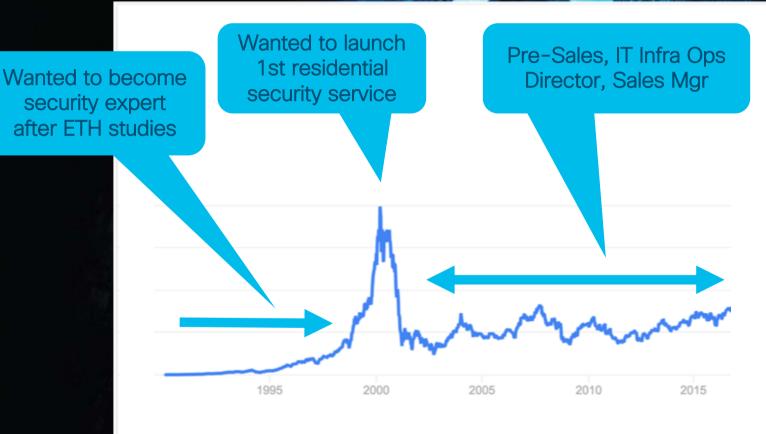
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Cyber-Security 58. Lunch-Forum der asut

Philipp Müller March 23rd 2018



Philipp & Security



25CB73 8

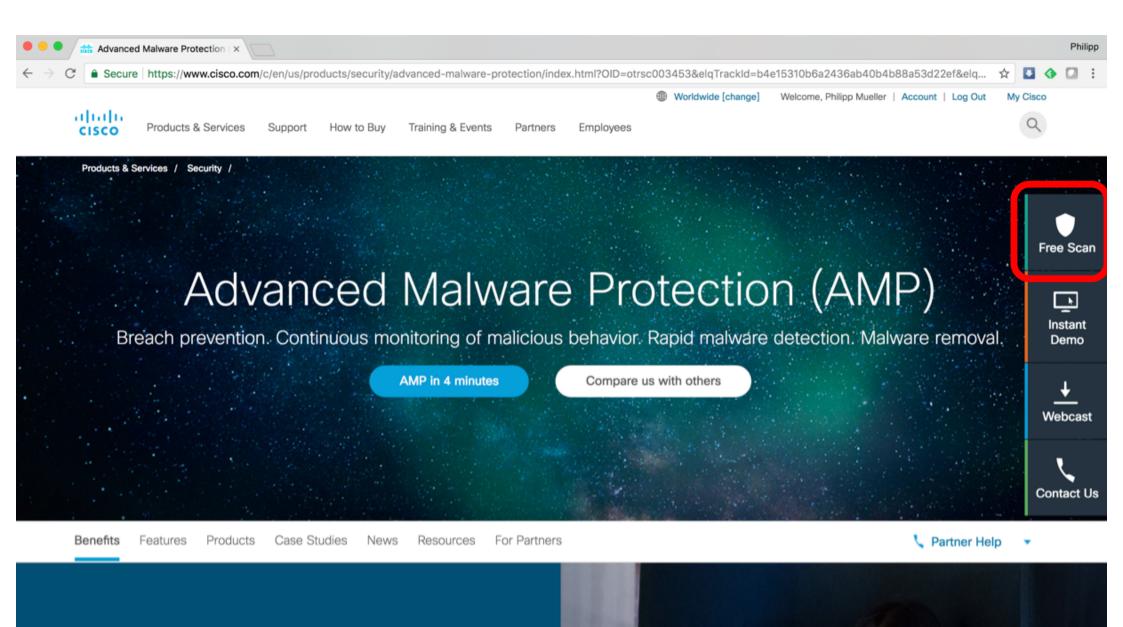




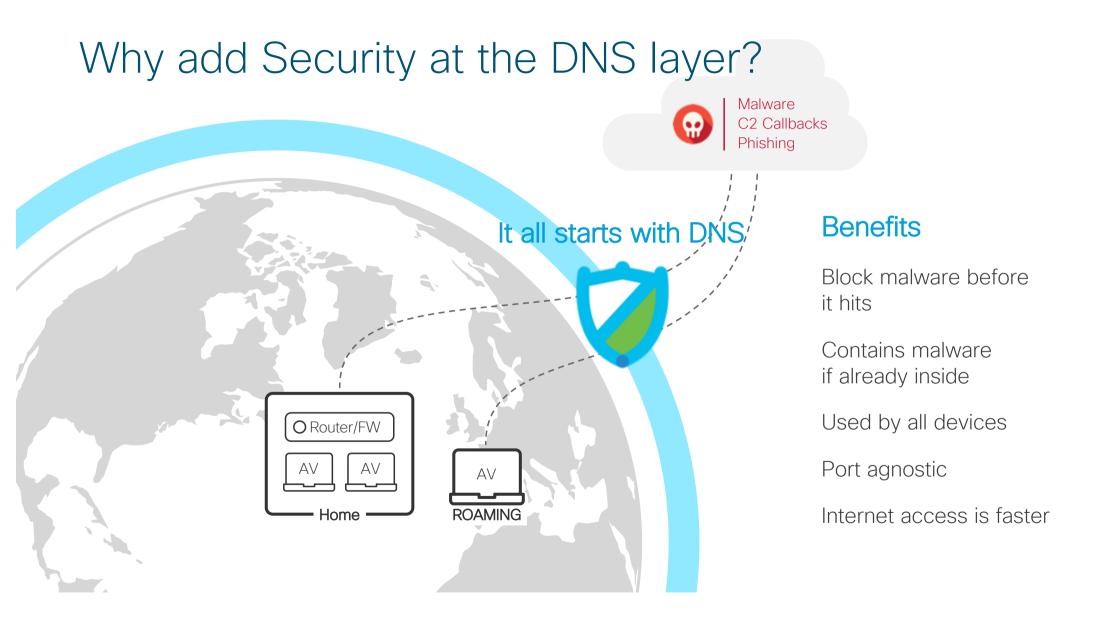




Format everything and setup from scratch? How to come to a conclusion?







ahaha Help Feedback Emergencies **Employee Communities** cisco IMPORTANT: Employee Communities on Jive is moving to a new platform at the end of Q3. Learn more to prepare. **(1**) • / Create -Q Home Content -Places -People -Your Stuff -More documents by Justin Hang Appears in 7 other places. ☑ Share Actions -Requesting Umbrella Demo Accounts for Cisco Employees r → Like • 38 Comment • 8 Document created by Justin Hang on May 4, 2016 • Last modified by Jason Phelps on Aug 31, 2017 Version 34



uluu Overview 🗎 🛎 Last 7 Days -

Message Center

8k

Malware: 0 requests blocked in the last 24 hours View Trend | View Details

Command and Control: 0 requests blocked in the last 24 hours View Trend | View Details



4

☆ Scheduled Reports Last 24 Hours Executive Summary Report To: Philipp Müller

Inbox-to-me	18:32	
	10-01	SR

OpenDNS OpenDNS is now part of Cisco

Sign in to Umbrella

Last 24 Hours Security Report

MAR 12 - MAR 13, 2018

	In the last 2	4 hours, we'	ve protected yo	ou from:		
O MALWARE & I REQUESTS	DRIVE-BY	0				
O COMMAND & REQUESTS	CONTROL	0				
O PHISHING RE	EQUESTS	0				
Top Security	/ Events					
BY DOMAIN						
Domain			Requests	Id	entities	
		No data for t	his period			

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Gain visibility into the cloud services being used across your organization, identify usage patterns, and uncover shadow IT.

All Identities - Last 7 Days (UTC+01:00 Change time zone) - All Classifications

32	5	1
Cloud Services	Never Before Seen	Total Identity Count

Find a Cloud Service Hide	Name	Classification	Identities	Trend	Requests	Blocked	First Seen	Last Seen
Q Type a Cloud Service Name	Dropbox	File Sharing, Collaboration	1	- 0	485	0%	Feb. 15, 2018	Mar. 13, 2018
SHOW SERVICE DETAILS	Apple iCloud	Cloud Data Services	1	- 0	304	0%	Feb. 14, 2018	Mar. 13, 2018
	Gmail	Communication, Cloud Data Services	1	- 0	156	0%	Feb. 14, 2018	Mar. 13, 2018
Filter Cloud Services	Google Docs	Collaboration, Content Sharing	1	- 0	84	0%	Feb. 15, 2018	Mar. 13, 2018
Filter by Identity: Select an identity	Spotify	Social Media	1	- 0	60	0%	Feb. 15, 2018	Mar. 13, 2018
	Cisco Webex	Web Conferencing, Collaboration	1	- 0	54	0%	Feb. 15, 2018	Mar. 13, 2018
Filter by date: Last 7 Days \$	Amazon	Cloud Data Services, Storage	1	- 0	47	0%	Feb. 15, 2018	Mar. 12, 2018
Filter by Classification: SELECT >	Twitter	Social Media, Messaging	1	- 0	43	0%	Feb. 15, 2018	Mar. 13, 2018
SELECT	Facebook	Social Media, Communication	1	- 0	40	0%	Feb. 15, 2018	Mar. 13, 2018
RUN REPORT	Google Drive	Storage, File Sharing	1	- 0	37	0%	Feb. 15, 2018	Mar. 13, 2018
	LinkedIn	Social Media, Collaboration	1	↑ 1	28	0%	Feb. 16, 2018	Mar. 13, 2018
	Box	Content Sharing, File Sharing	1	- 0	20	0%	Feb. 18, 2018	Mar. 13, 2018
	Google Analytics	Data & Analytics, Tracking	1	- 0	20	0%	Feb. 15, 2018	Mar. 13, 2018
	Chartbeat	Data & Analytics, Tracking	1	- 0	20	0%	Feb. 15, 2018	Mar. 13, 2018

Youtube	Social Media, Content Sharing	1	- 0	15	0%	Feb. 15, 2018	Mar. 13, 2018
Foursquare	Social Media	1	- 0	7	0%	Feb. 16, 2018	Mar. 12, 2018
MS OfficeLive	Collaboration	1	- 0	5	0%	Feb. 19, 2018	Mar. 13, 2018
Evernote	Business Management, Productivity	1	↑ 1	5	0%	Feb. 20, 2018	Mar. 10, 2018
Gigya	CRM & SFA	1	↑ 1	5	0%	Feb. 19, 2018	Mar. 10, 2018
IFTTT	Productivity	1	↑ 1	4	0%	Feb. 15, 2018	Mar. 09, 2018
Instagram	Social Media	1	↑ 1	3	0%	Feb. 15, 2018	Mar. 12, 2018
New Relic	Business Management, Data & Anal	1	↑ 1	2	0%	Feb. 19, 2018	Mar. 12, 2018
Netflix	Media	1	- 0	2	0%	Feb. 15, 2018	Mar. 09, 2018
Office 365	Content Sharing, Cloud Data Servic	1	↑ 1	2	0%	Feb. 20, 2018	Mar. 10, 2018
Salesforce	CRM & SFA	1	↑ 1	1	0%	Mar. 10, 2018	Mar. 10, 2018
SumoLogic	IT Services, Data & Analytics	1	↑ 1	1	0%	Mar. 09, 2018	Mar. 09, 2018
OneDrive	Cloud Data Services, Storage	1	↑ 1	1	0%	Mar. 12, 2018	Mar. 12, 2018
Mixpanel	Data & Analytics	1	↑ 1	1	0%	Mar. 10, 2018	Mar. 10, 2018
AddThis	Data & Analytics, Tracking	1	↑ 1	1	0%	Feb. 17, 2018	Mar. 09, 2018
SurveyMonkey	Data & Analytics	1	↑ 1	1	0%	Mar. 13, 2018	Mar. 13, 2018
Cedexis	Tracking	1	↑ 1	1	0%	Feb. 19, 2018	Mar. 09, 2018

© 2017



With Cisco Umbrella

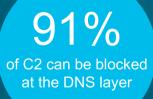
Discover

daily new domain names Identify

daily malicious destinations

Enforce

malicious destinations while resolving DNS



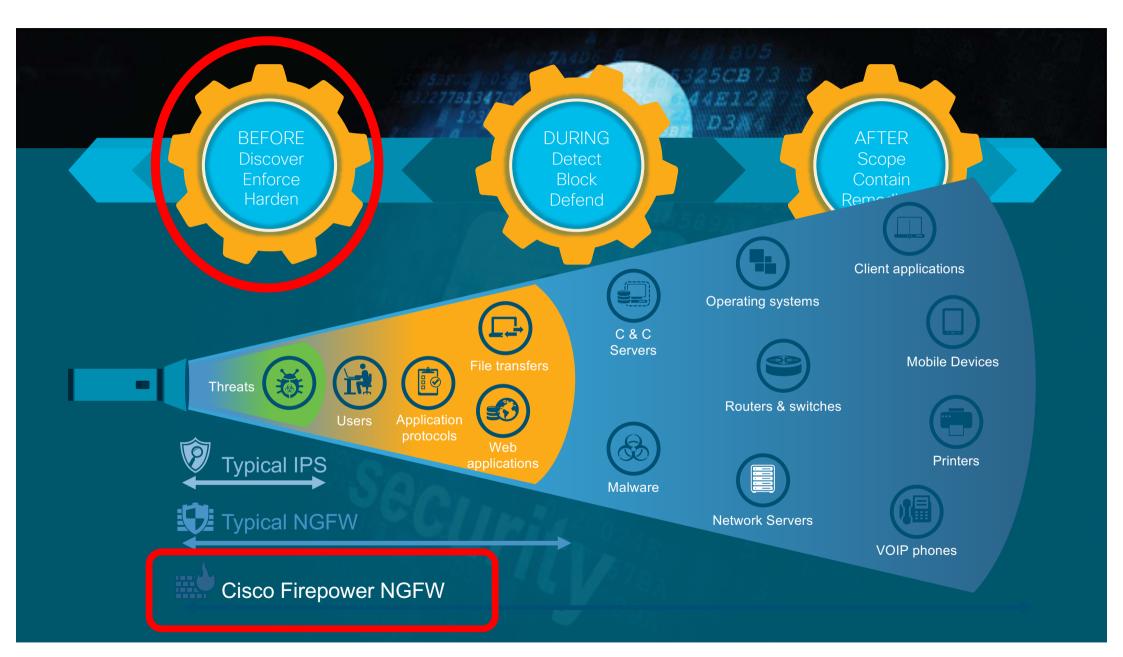
91% of command & control traffic uses DNS





Chase the remaining 15%









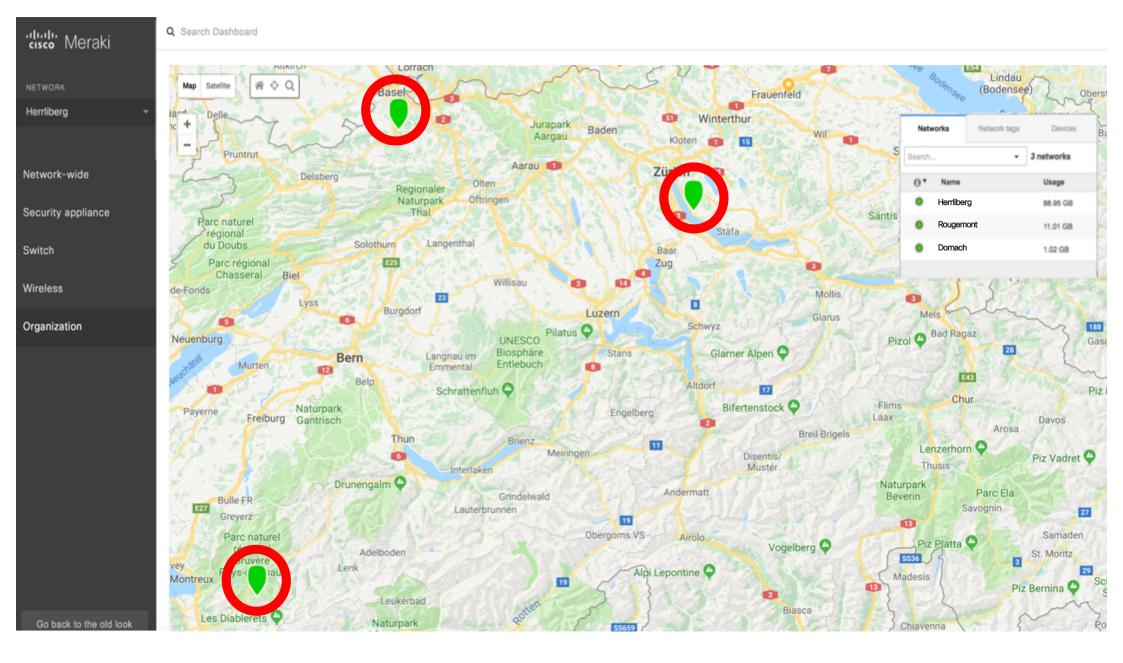
Home Product Categories V Licenses Blog FAQ and Help

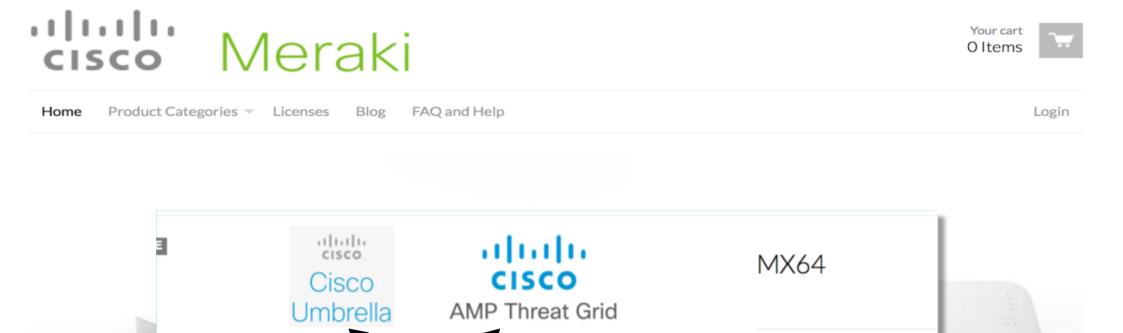


Welcome to the Cisco employee purchase program for Cisco Meraki gear

You must be a Cisco employee to purchase from the program. To request access, please send an email to epp-registration@meraki.com from your cisco.com or meraki.com address.

Login





aludu

CISCO

This MX64 is recommended clinic (approx. 50 users).

quality network infrastructure

Since the MX is 100% cloud management is simple. The N

Cisco Meraki MX Security Ap

Welcome to the Cisco employee purchase program for Cisco Meraki gear

You must be a Cisco employee to purchase from the program. To request access, please send an email to epp-registration@meraki.com from your cisco.com or meraki.com address.

disco Meraki	Sec	urit	y Ce	enter	the la	st mont	h -																			⊖ Prir	it 🖲	Download	• S	chedule
NETWORK Herrliberg -	Searc		ents Eve	nts				Filte	er ▼ 1	matchi	ng event																			
romovig	Event		er time	9																										
Network-wide		1																												
Security appliance																														
Switch			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wireless		fon 1/2	Tue 1/3	Wed 1/4	Thu 1/5	Fri 1/6	Sat 1/7	Sun 1/8	Mon 1/9	Tue 1/10	Wed 1/11	Thu 1/12	Fri 1/13	Sat 1/14	Sun 1/15	Mon 1/16	Tue 1/17	Wed 1/18	Thu 1/19	Fri 1/20	Sat 1/21	Sun 1/22	Mon 1/23	Tue 1/24	Wed 1/25	Thu 1/26	Fri 1/27	Sat 1/28	Sun 1/29	Mon 1/30 CET
Organization	Maat	offer		lianto												-			f three t	_										
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	Most	prev	alent t	threats	•																			ſ		25				F
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	Mac	OS X	10.10												1						Tray.					1				

ululu cisco Meraki	Q Search Dashboard	
NETWORK	DHCP	
Herrliberg -		
	Main subnet 192.168.	1.0/24 🚯
	Client addressing	Run a DHCP server
Network-wide	Lease time	1 day 🜲
Security appliance	DNS nameservers For DHCP responses	Use OpenDNS 🛟
Switch	Boot options	Boot options disabled \$
Wireless	Boot next-server	
	Boot filename 👩	

cisco Meraki	Q Search Dashboard								
NETWORK	Threat protection	١							
Herrliberg -	Advanced Malware								
	Mode 📵	Enabled 🛊							
Network-wide	Whitelisted URLs ()	There are no whitelisted URLs. Add a whitelisted URL							
Security appliance	Whitelisted files	There are no whitelisted files. Add a whitelisted file							
Switch		Add a writtensted me							
Wireless	Intrusion detection a	and prevention							
• • •	Mode 🕕	Detection \$							
Organization	Ruleset (1)	Balanced \$							
	Whitelisted rules	There are no whitelisted IDS rules. Whitelist an IDS rule							

Save Changes or cancel

(Please allow 1-2 minutes for changes to take effect.)



Umbrella Malware Ransomware C2 Callbacks Phishing

NGFW: malicious file protection

TECH

A massive cyberattack knocked out major websites across the internet



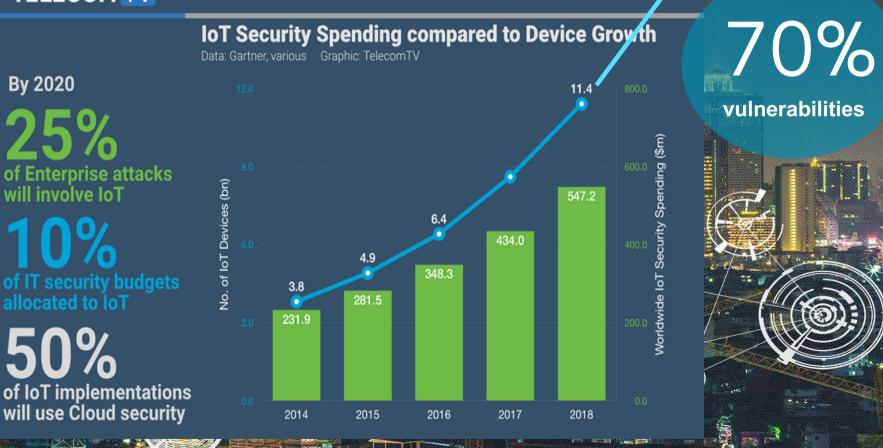
Internet of Things Security

TELECOM

of Enterprise attacks

will involve IoT

By 2020



50bn Devices





BEFORE Herrliberg Discover Enforce Harden

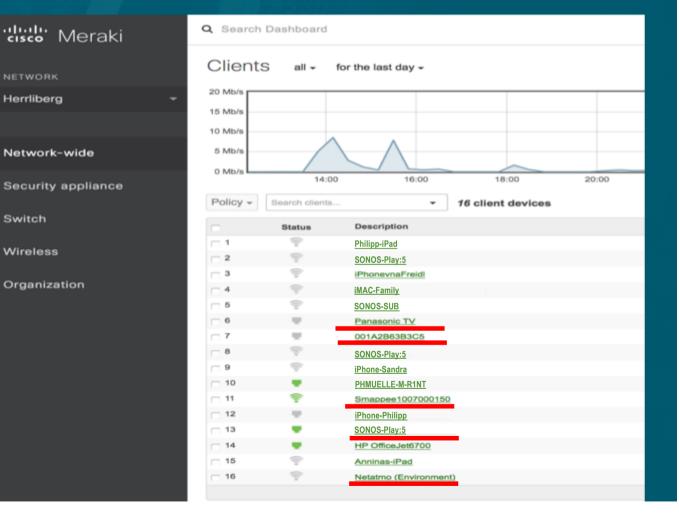
Network-wide

Switch

Wireless

Organization

The Network sees Everything!





Securing IoT

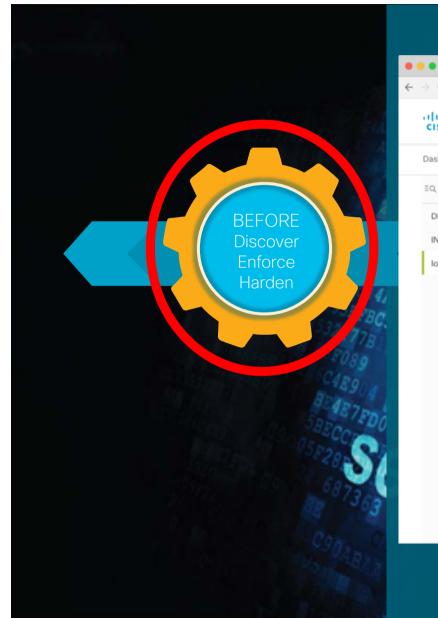
- 1) Find all devices
- 2) Assign them into the right
 - IoT Segment
- 3) Find the Public Adress of Server
- Permit access to that Address and block all the rest

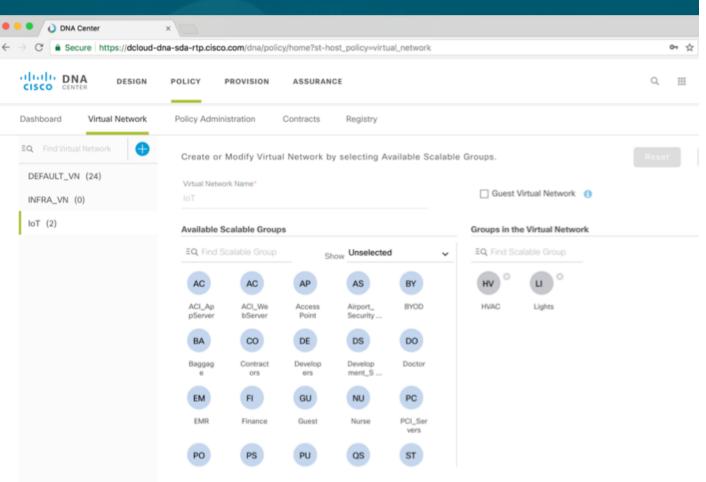


Leitfaden Informationssicherheit IT-Grundschutz kompakt Strong need for automating the segmentation

Hospital FACTS:

- 90'000 none IT devices
- vs 25'000 IT devices
- None-IT growing dramatically
- 150'000 "foreign users" access
- 2'100 "foreign" companies



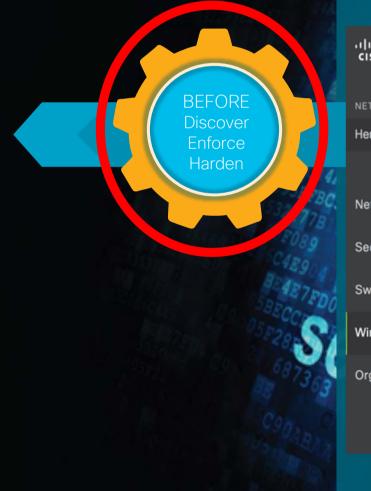




"cisco" Meraki Rougemont **BFFORF** Discover Network-wide Enforce Security appliance Harden Switch Wireless Organization

~40 unknown Clients a Year! 4 Mb/s 0 Mbb Jan 03 Jan 06 Jan 09 Jan 12 Jan 15 Jan 18 Jan 21 Jan 24 Policy - Search clients. 26 client devices Last seen Description Usage * 05 Status Jan 22 09:50 205.62 GB - 1 Swisscom Router Other 2 TV-Box-efeca3322b1e0111 Jan 22 09:50 24.89 GB Other - 3 Felixs-iPad Jan 30 08:47 8.94 GB Apple iPad Jan 22 17:23 4 Caspars-MacBook-Pro 3.60 GB Mac OS X 10.12 5 Phonevonfelix2 Jan 30 08:48 2.37 GB Apple iPhone 6 Jan 30 12:45 2.20 GB Pad-von-Ursula Apple iPad 7 Caspars-iPhone Jan 22 18:04 771.6 MB Apple iPhone Pad-von-Merki Jan 29 17:57 667.1 MB Apple iPad 8 9 Leonies-iPhone Jan 22 18:07 531.7 MB Apple iPhone 10 Marions-iPhone Jan 22 18:02 460.4 MB Apple iPhone 11 DESKTOP-40C53BN Jan 29 08:46 329.2 MB Windows 10 287.5 MB 12 android-417d874f8f66ca1d Jan 30 12:49 Android 13 ThinkPad Jan 17 09:39 222.4 MB Windows 7/Vista 14 Jan 22 18:06 156.0 MB Apple iPad Dell 15 Pad-von-Ursula Jan 07 16:33 117.1 MB Apple iPad 16 Jan 22 18:08 86.0 MB Samsung-Caroline Apple iPad 17 iPhone-Philipp Jan 22 17:10 56.5 MB Mac OS X 10.10 18 Jan 22 18:04 48.5 MB Reto-iPad 105 19 Hanspeter-Merki Jan 29 18:06 34.2 MB Apple iPhone Jan 22 18:07 20.1 MB 20 HP DeskJet Apple iPhone 21 Jan 27 11:02 18.3 MB Access Point Keller Other 22 Christians-iPad Jan 22 18:07 1.5 MB Apple iPad 23 Wills-iPhone Jan 24 08:56 429 KB Apple iPhone 165 KB 24 ThinkPad Jan 17 09:37 Windows 25 Jan 22 09:45 165 KB Meraki iPhone-Sandra 26 90:21:81:07:60:55 Jan 16 10:22 None Other

Segmentation: Guestnet



'disco Meraki Q Search Dashboard NETWORK SSIDs Herrliberg Name Network-wide Security appliance Switch Wireless Organization

Configuration overview Showing 4 of 15 SSIDs. Show all my SSIDs. PhilippGuests PhilippNetz Enabled enabled \$ enabled \$ rename rename edit settings edit settings Access control WPA2-PSK Encryption Open Password-protected w Sign-on method None Bandwidth limit unlimited unlimited Client IP assignment Local LAN Meraki DHCP Clients blocked from using LAN n/a no Wired clients are part of Wi-Fi network no no VLAN tag () n/a n/a VPN Disabled Disabled Splash page Splash page enabled no yes Splash theme n/a Modern



Zerotouch

Welcome to PhilippGuests

Grüezi und herzlich willkommen im PhilippGastnetz. Für freien Internet Zugang bitte das Wifi Passwort eingeben welches beim Telefon im Wohnzimmer oder im Büro gut ersichtlich aufliegt.

You will need to be on the list of authorized users for this network in order to access the Internet.

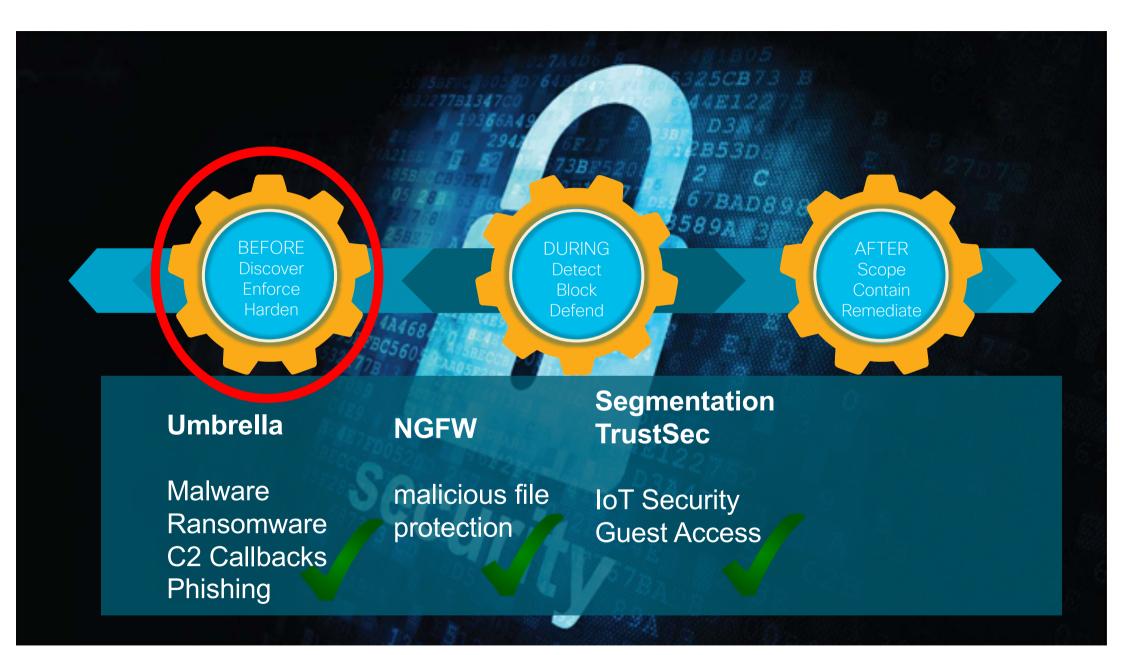
EMAIL		
PASSWORD		

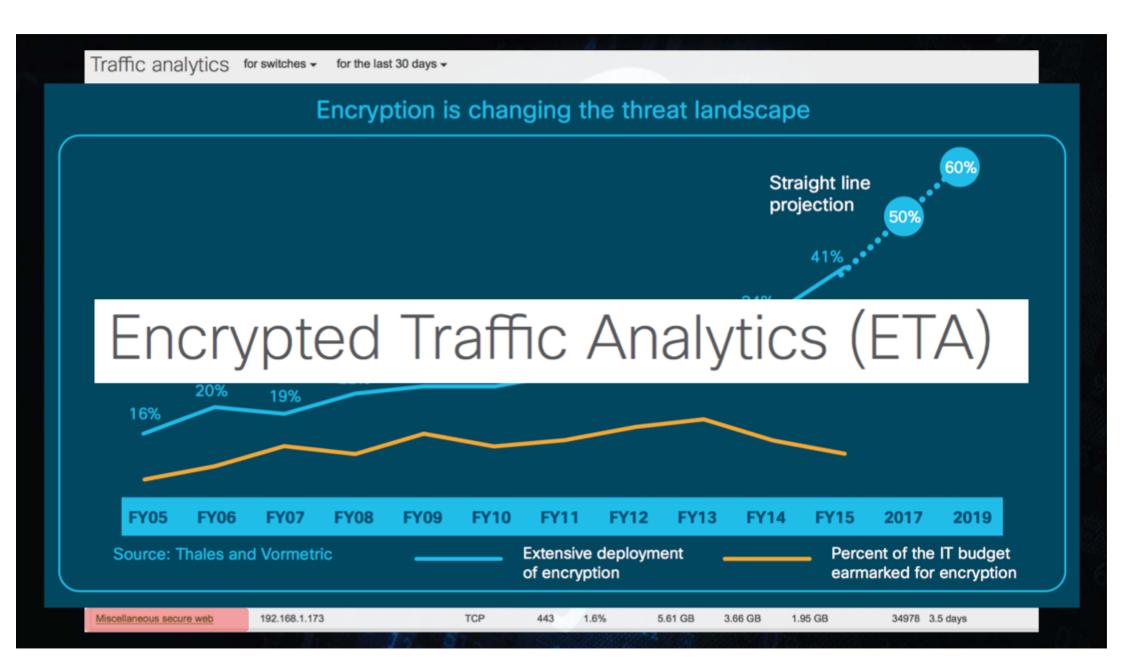
Sign In

I forgot my password

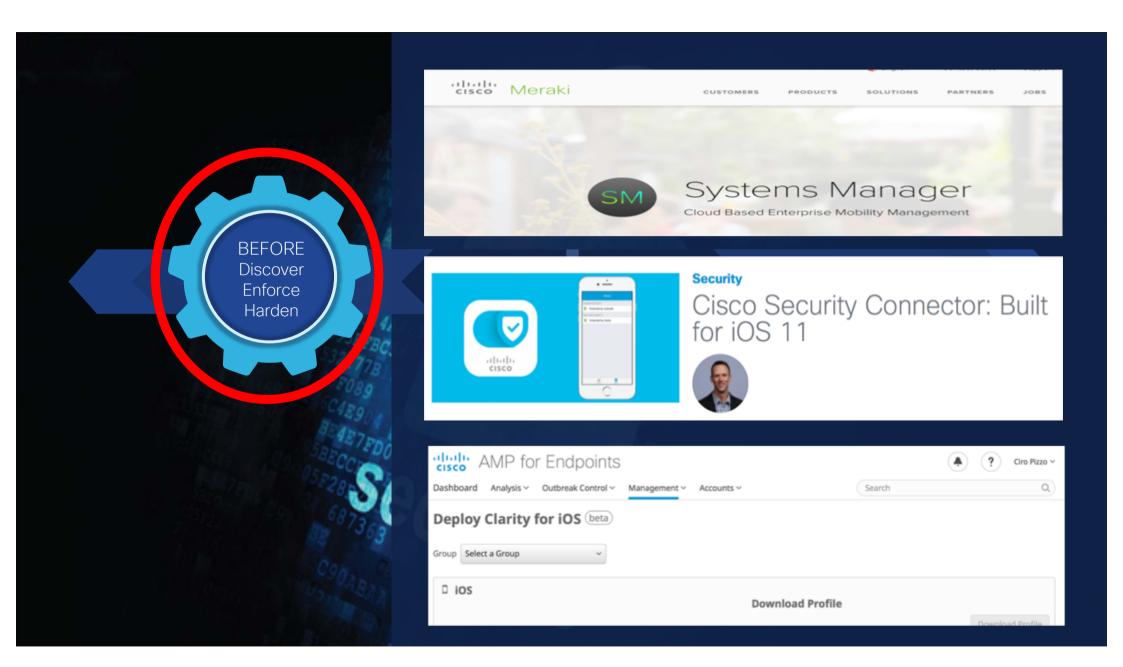
POWERED BY

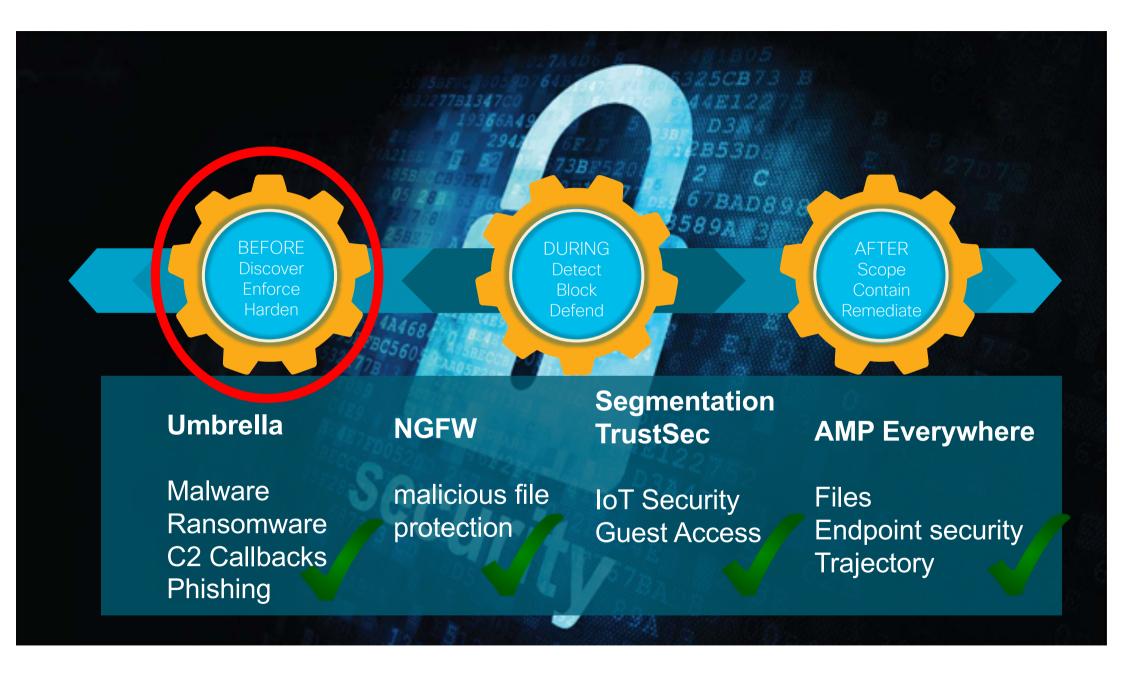
'lull' Meraki







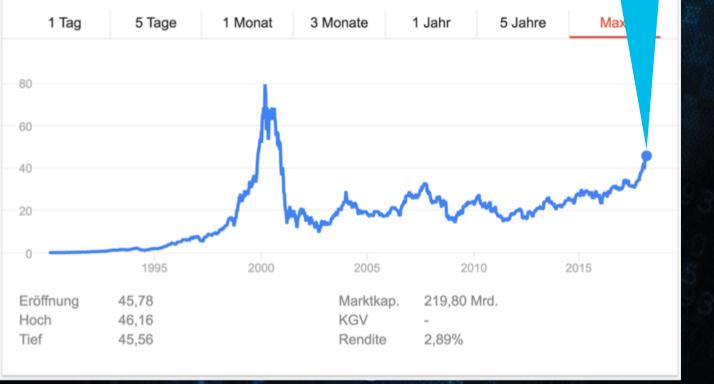




Philipp & Security

Cisco Systems, Inc. NASDAQ: CSCO - 13. März, 11:30 GMT-4

45,64 USD **10,09 (0,20 %)**



SECURITY

·IIIII CISCO