Cybersecurity career – I did it my way

@DrAzureAD

About the speaker



Who?

- Dr. Nestori Syynimaa
- Senior Principal Security Researcher @ Secureworks CTU
- Creator of AADInternals toolkit
- MVP (Identity & Access, Mobile Device Management), MVR

Contact details

- nsyynimaa@secureworks.com
- Twitter: @DrAzureAD
- https://linkedin.com/in/nestori
- https://o365blog.com











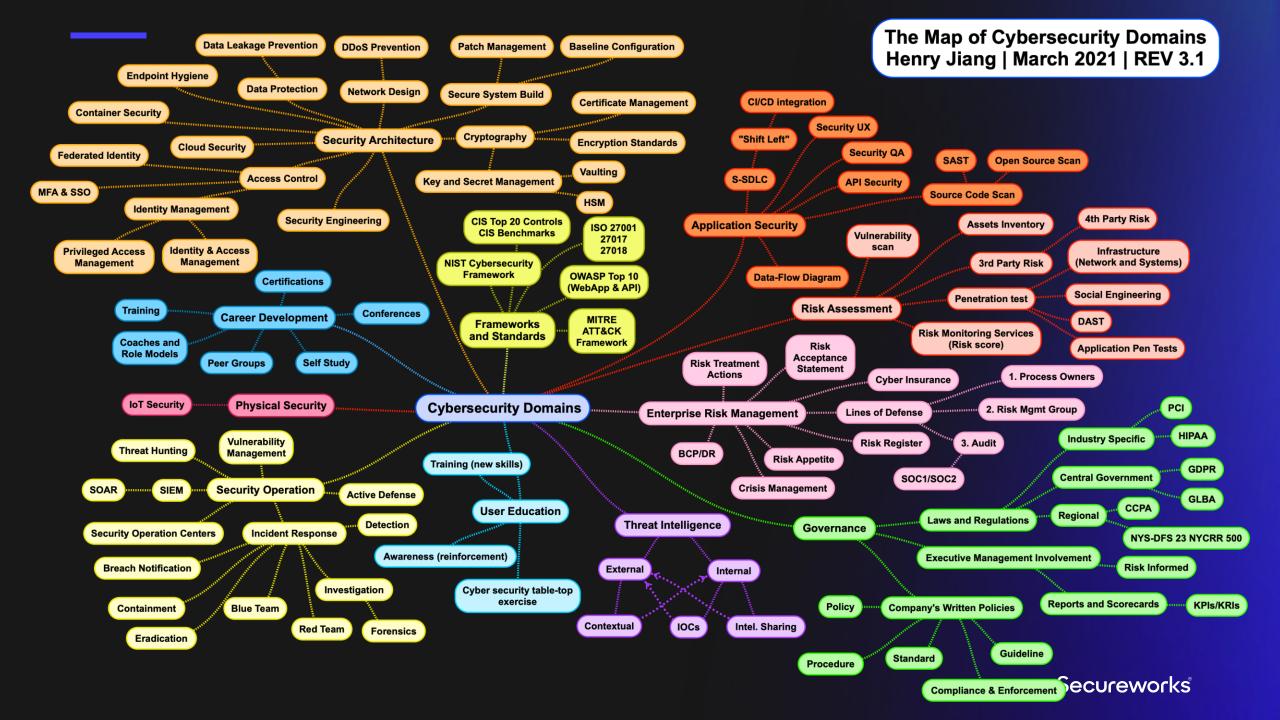




Contents

- Cybersecurity domains
- How to get into cybersecurity
- My career path

Cybersecurity domains



How to get into cybersecurity

How to get into cybersecurity

- Formal education
- Work experience
- Certifications
- Contributing to community

My career path

My career path

- 2000 First job on IT industry (software developer/architect)
- 2004 Chief Technology Officer (CTO)
- 2007 Chief Information Officer (CIO), Anvia konserni
- 2013 IT Trainer
- 2017 University Lecturer, University of Jyväskylä
- 2018 CIO, Tampereen kehyskunnat
- 2021 Senior Principal Security Researcher, Secureworks

Formal education

- 2003 Datanomi, Tietojärjestelmät
- 2007 BBa, SME Bus. Adm, Marketing (Seinäjoki UaS)
- 2009 MSc, Econ. & Bus. Adm, Computer Science (UWasa)
- 2015 PhD, Informatics (Henley Business School / UoReading)
- 2017 Professional Teacher Qualification (HAMK)
- 2020 Specialisation Education in Cyber Security (TAMK)
- 2023 Master of Engineering, Cyber Security (JAMK)
- 2023 D.Sc. In Economics, University of Jyväskylä

Certifications











































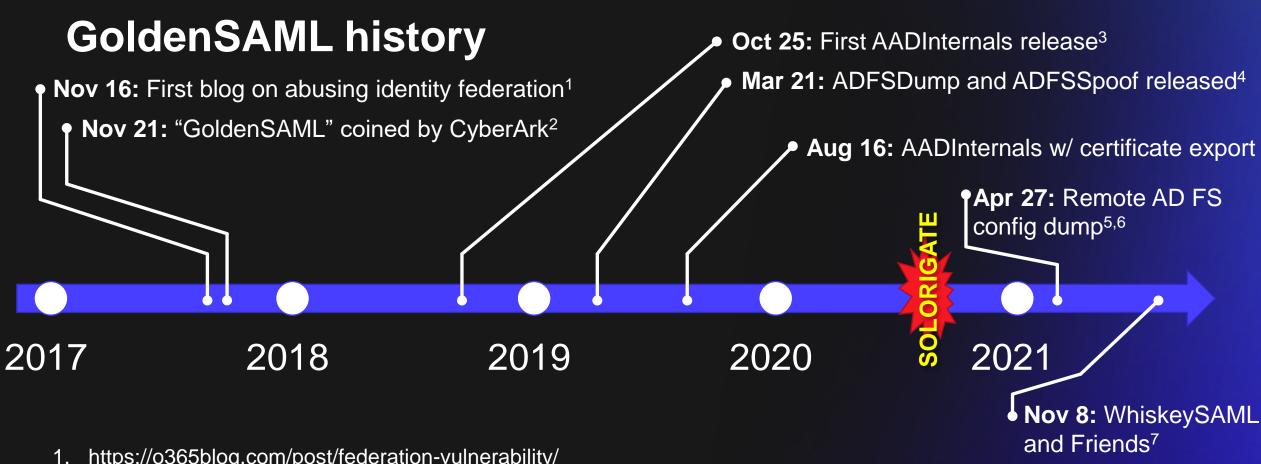


Cybersecurity certifications companies are hiring for

Certificati on	LinkedIn	Indeed	Simply Hired	Total
CISSP	52,000	23,711	11,547	87,258
CISA	22,063	12,544	7,127	41,734
CISM	14,795	7,021	3,463	25,279
Security+	7,366	10,161	3,235	20,762
СЕН	21,125	3,961	1,918	27,004
GSEC	4,189	4,054	2,545	10,788
SSCP	4,177	3,569	2,231	9,977
CASP	3,096	1,391	925	5,412
GCIH	4,111	2,985	1,764	8,860
OSCP	4,162	3,054	1,232	8,448

Contributing to community

- Why?
 - To get attention & to gain expert status
- How?
 - Blog, tweet, Youtube
 - Create tools
 - Speak in user groups, conferences

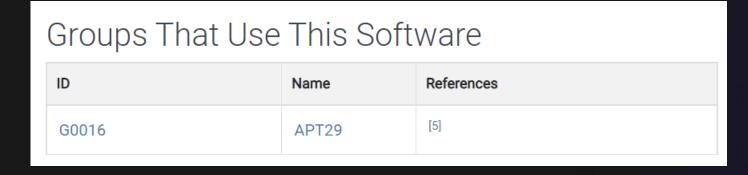


- https://o365blog.com/post/federation-vulnerability/
- https://www.cyberark.com/resources/threat-research-blog/golden-saml-newly-discovered-attack-technique-forgesauthentication-to-cloud-apps
- https://o365blog.com/post/aadinternals/
- https://troopers.de/troopers19/agenda/fpxwmn/
- https://o365blog.com/post/adfs/
- https://www.mandiant.com/resources/abusing-replication-stealing-adfs-secrets-over-the-network
- https://www.blackhat.com/eu-21/arsenal/schedule/#whiskeysaml-and-friends-25024

AADInternals

Admin & hacking toolkit for Azure AD & Microsoft 365

- Open source:
 - https://github.com/gerenios/aadinternals
 - https://o365blog.com/aadinternals/
- MITRE ATT&CK
 - https://attack.mitre.org/software/S0677/





2022 conference talks

- Mar: Teams Nation 2022 (virtual)
- Apr: ICEIS2022 (virtual)
- May: M365 Security & Compliance User Group UK (virtual)
- Jun: TROOPERS (GER), CERT-EE (EST)
- Aug: Black Hat (USA), DEF CON, Tech Mentor
- Sep: Identity Summit (GER), ROMHACK (ITA)
- Nov: Tech Mentor (USA)

 Q_3

John Lambert @JohnLaTwC · Aug 9

I wonder what @DrAzureAD and I talked about today?



Dr. Nestori Syynimaa @DrAzureAD · Aug 11 Met another Mr Curley Hair @MalwareTechBlog at #BHUSA

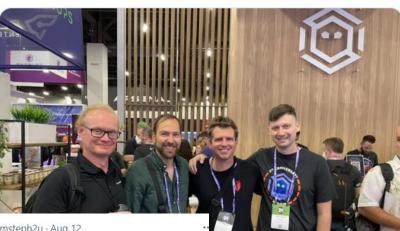


♡ 29

17



Sean Metcalf @PyroTek3 · Aug 10 Hanging out with the Identity Braintrust at Black Hat! @_wald0, @_dirkjan, & @DrAzureAD



A

Stephanie Calabrese @fromsteph2u · Aug 12 @DrAzureAD so amazing seeing you today!! Sorry I missed you at the @msftsecresponse party but happy we caught up today today!!! @nicfill



139

1

Secureworks





Is it worth it?

Executives (CISO etc.) \$200 000

Mid-level IT professionals \$120 000

Consultants, admins \$ 80 000

Thank you!