ECSO
EUROPEAN CYBER SECURITY ORGANISATION

CYBERSECURITY AWARENESS CALENDAR 2023

MAY EDITION: CYBERSECURITY ARCHITECT

Cybersecurity
Architect

2023 CONTENT

Based on ENISA's European Cybersecurity Skills Framework (ECSF), this calendar will feature a different skill each month. ECSO aims to spread awareness of key aspects of cybersecurity and showcase ECSO Members and cybersecurity community's solutions and services.

The monthly themes for 2023 are planned as follows:

January – Chief Information Security Officer
February – Cyber incident Responder
March – Cyber Legal, Policy and Compliance Officer
April – Cyber Threat Intelligence Specialist
May – Cybersecurity Architect
June – Cybersecurity Auditor
July – Cybersecurity Educator
August – Cybersecurity Implementer
September – Cybersecurity Researcher
October – Cybersecurity Risk Manager
November – Digital Forensics Investigator
December – Penetration Tester

Chief Information Security Officer (CISO)
Cyber Incident Responder
Cyber Legal, Policy and Compliance Officer
Cyber Threat Intelligence Specialist
Cybersecurity Architect
Cybersecurity Auditor
Cybersecurity Educator
Cybersecurity Implementer
Cybersecurity Researcher
Cybersecurity Risk Manager
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Digital Forensics Investigator
01010 11101 00101
Penetration Tester

Did you know?

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1. The main purpose of a cybersecurity architect skill is to plan and design security-by-design solutions (infrastructures, systems, assets, software, hardware and services) and cybersecurity controls. More HERE.
2. Other titles for cybersecurity architect are " cybersecurity designer" and "data security architect". More HERE.
3. ECSO currently has ongoing work on software supply chain security. A technical paper will be released soon. We believe that this paper will be beneficial for Cybersecurity Architects in their role, as well as in raising awareness on the skill itself. We invite you to keep an eye out on ECSO's publication page HERE and social media channels HERE and HERE for its release.
4. ECSO has a technical workgroup "SRIA and cybersecurity technologies" with projects where a cybersecurity architect's skills are needed. The working group is divided into the following sub-groups: Ecosystem, Digital Transformation in Verticals, Data & Economy, Basic & Disruptive Technologies, and Cybersecurity for Dual Use Technologies. More on this technical working group may be found HERE. We invite you to contact roberto.cascella(at)ecs-org.eu for more information or with questions on how to get invlolved.

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Resources from our Members

Cybersecurity architect and risk management

Security is all about risk management. Unfortunately, organisations tend to relate security only to the internet and the cyberworld. However, it's not just cybersecurity! Hence, it's critical for an enterprise to understand that security is not solely about data, applications and infrastructure. It is also about securing customers, protecting organisational reputation, instilling trust and so on. How to solve that then? An enterprise security architecture can provide transparency in the alignment of measures in the security layer, such as security alerts, towards high-level business targets, like maintaining consumer trust. And when it comes to security architects, they are the key in breaching that gap and ensuring that security is imbedded in the optimal way.

Read more HERE and HERE.

Cybersecurity Architect

Cybersecurity Architect can help an organisation

A cybersecurity architect is responsible for designing, building, and maintaining the security systems within an organisation's IT network, including computer systems and data security. They design, lead implementation, and maintain security solutions that follow best practices and security controls, including security strategies for identity, device, data, application, network, infrastructure. They also design solutions for governance and risk compliance (GRC), security operation center, and security posture management.

Our cybersecurity architects can help an organisation in conduct cyber risk assessment, design and implement security controls, provide cybersecurity awareness, develop and implement a comprehensive cybersecurity strategy, develop incident response plans. Learn more HERE.

Learn new skills and what it’s like to be a Cybersecurity Architect! (FOR FREE!)

GLOBAL CYBER ALLIANCE

The Cybersecurity Career Path is part of the Cybersecurity Learning Hub which is an initiative designed to tackle the global cybersecurity skills shortage. Hosted on Trailhead, Salesforce’s learning platform, it provides over 70 free courses with career oriented information, expert interviews and training modules. Take the Cybersecurity Architect Trailmix to explore how to create enterprise information security architecture that aligns to business strategy and information security. You can also check out other cybersecurity roles and learn vital skills for free whilst you’re there!

Global Cyber Alliance is proud to be a founding partner of the Cybersecurity Learning Hub alongside the World Economic Forum, Salesforce, and Fortinet.

Cybersecurity Architect

CheckerSat, a cybersecurity solution for critical infrastructures

Antimalware solutions are often installed in critical infrastructures. However if someone attacks a critical infrastructure they would never use a malware which can be detected by COTS available technology. Instead, a targeted attack would be custom developed to avoid detection. Additionally, they need to be regularly updated with new signatures. This task requires special procedures to move the signatures from the Internet into the isolated critical infrastructure network. CheckerSat is a whitelisting solution designed to efficiently protect critical infrastructures against advanced threats. They change the protection paradigm from a known bad to a known good. Unlike antiviruses, only approved operations (i.e. known good) are allowed and all the rest is discarded. CheckerSat controls processes running in the systems, incoming and outgoing connections, integrity of system files, disk encryption and use of USB devices protecting the asset from a wide range of threats in a single agent. Discover more HERE.

Professional Development Courses Offered by designed for chief security architect or analysts.

(ISC)2 has courses available for cybersecurity architects or analysts looking to advance their knowledge on a variety of topics including technologies, regulations, standards and practices.

CISSP-ISSAP Training Course Outline - For cyber professionals who hold the CISSP designation, Participants will be able to create an Information Security Architecture meeting the requirements of governance, compliance and risk management, develop an infrastructure security program, integrate security principles into applications development and more. This course is an online, self-paced course.

Certified Cloud Security Professional (CCSP) - This certification is ideal cybersecurity professionals responsible for applying best practices to cloud security architecture, design, and more. It is offered in three ways. Self-paced, online instructor-led, or classroom based. The CCSP demonstrates advanced technical skills and knowledge to design, manage and secure data, applications and infrastructure in the cloud using best practices, policies and procedures.

Resources from the Community

Blue Team - SOC

The INSSIDE Cybersecurity Defence Center actively and multi-platform monitors to prevent, detect, analyse, and alert threats to strengthen and sustain a resilient ecosystem. The INSSIDE Cybersecurity Architect is responsible for designing and overseeing security infrastructure, identifying and mitigating vulnerabilities, implementing solutions, and monitoring network and system security. They seek to strengthen their commitment to their clients' security and stay at the forefront of cybersecurity trends. Read more HERE.

Designing a Secure Future: The Role of Cybersecurity Architects in Innovation

Ensuring efficient technology implementation and usage across the organisation, Cybersecurity Architect is a crucial role, especially when companies transform or adapt. Indeed, they are responsible for designing and implementing secure computer systems, networks, and software applications that align with the organisation's business objectives and security requirements. More HERE.

Thank you for your time!

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The Cybersecurity Awareness Calendar
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European Cyber Security Organisation (ECSO)
Avenue des Arts 46
1000, Brussels

company/ecso-cyber-security

@ecso_eu

www.ecs-org.eu

secretariat@ecs-org.eu