

## Discover the World of Cybersecurity

### Key Resources



It's easy to feel overwhelmed by the myriad resources available on cybersecurity. Here's a non-exhaustive list that we're sure you can improve on and add to as you come across more resources! There's something here for everyone, from technical and organizational topics to resources for raising awareness among employees and the general public.

### Data Protection Authorities

Independent authorities who supervise and apply data protection laws:

- [Federal Trade Commission](#) (FTC) in the USA
- [Information Commissioner's Office](#) (ICO) in the UK
- [Privacy Commissioner](#) in Canada
- A list of global authorities can be found [here](#)

### Government Cybersecurity Agencies

Government agencies who support, protect and educate organizations and individuals in the fight against cyberattacks:

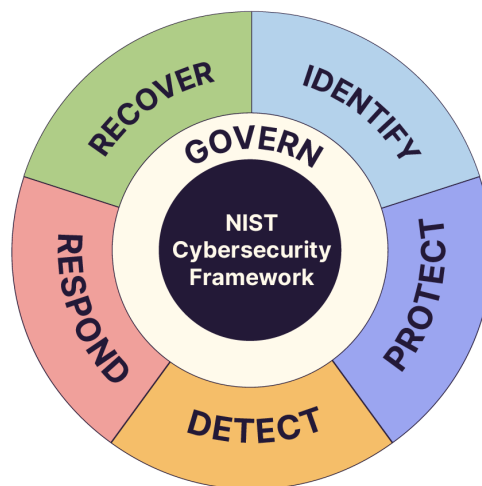
- [Cybersecurity and Infrastructure Security Agency](#) (CISA) in the USA whose website contains detailed best practices, threats and advisories across the entire Cybersecurity landscape

# OPENCLASSROOMS

- [European Union Agency for Cybersecurity](#) (ENISA) in the EU with resources available in English and many other European languages
- [National Cyber Security Centre](#) (NSCS) in the UK who provide information for individuals and organizations as well as guidance on cybersecurity topics and technologies
- [Agence Nationale de la Sécurité des Systèmes D'information](#) (ANSSI) in France (link is to the English version of the site) who provide tools and detailed guides on cyber crisis management

## Cybersecurity-related Standards and Frameworks

- [ISO 27001](#) standard on information security management (paywalled document), which describes how to implement an information security management system (ISMS), a useful tool for structuring and improving security.
- [NIST Cybersecurity Framework](#) (available free of charge), which describes cybersecurity according to six core functions: Govern, Identify, Protect, Detect, Respond, and Recover.



## Training

There is a wide range of training available, both with certification and without. Here are two of the best-known cybersecurity certifications:

- ISO 27001 Lead Implementer or Lead Auditor: preparation for the process of certifying your organization or for becoming an auditor
- CISSP (Certified Information Systems Security Professional): one of the most demanding certifications, covering all aspects of cybersecurity and requiring several months of preparation

## Cybersecurity Careers Frameworks

- The [Workforce Framework for Cybersecurity](#) (commonly referred to as the NICE Framework) by the National Institute of Standards and Technology (NIST) in the United States
- The [UK Cybersecurity Career Framework](#) provided by the UK Cybersecurity Council
- The [European Cybersecurity Skills Framework](#) (ECSF) by the European Union Agency for Cybersecurity (ENISA)

## Role- or Team-Specific Resources

Role	Resources
Monitoring and Detection Team (SOC)	<ul style="list-style-type: none"> <li>• <a href="#">MITRE ATT&amp;CK</a> and <a href="#">MITRE D3FEND</a> frameworks</li> </ul>
Threat Analyst	<ul style="list-style-type: none"> <li>• Platforms such as <a href="#">MISP</a> (an open-source platform for collecting and sharing cybersecurity indicators and threats) or <a href="#">OpenCTI</a></li> </ul>
Crisis Manager	ENISA guides on: <ul style="list-style-type: none"> <li>• <a href="#">Cyber Crisis Management</a></li> <li>• <a href="#">Crisis Management Training and Exercises</a></li> </ul>
Incident Response Team (CERT/CSIRT)	<ul style="list-style-type: none"> <li>• <a href="#">MITRE ATT&amp;CK</a> knowledge base</li> </ul>

# OPENCLASSROOMS

Application Security Team	<ul style="list-style-type: none"><li>● <a href="#">OWASP Top 10</a> (a regularly updated report listing the 10 most critical vulnerabilities affecting web applications)</li><li>● <a href="#">MITRE CVE</a> vulnerability catalog</li><li>● <a href="#">MITRE D3FEND</a> framework</li><li>● <a href="#">Secure Flag knowledge base</a>, useful to developers for understanding the vulnerabilities that can affect code and how to protect against them</li></ul>
Security Architect	<ul style="list-style-type: none"><li>● <a href="#">MITRE D3FEND</a> framework</li></ul>
Pentester (technical security auditor)	<ul style="list-style-type: none"><li>● <a href="#">OWASP Top 10</a></li><li>● <a href="#">Payload Box</a> and <a href="#">Kali Linux</a> tools</li></ul>
Cybersecurity Risk Analyst	<ul style="list-style-type: none"><li>● <a href="#">EBIOS Risk Manager</a> risk analysis methodology</li><li>● <a href="#">ISO 27005:2022</a> standard (Information security, cybersecurity and privacy protection—Guidance on managing information security risks)</li></ul>
Compliance Officer	<ul style="list-style-type: none"><li>● Key cybersecurity standards: <a href="#">ISO 27001</a>, <a href="#">ISO 27002</a>, <a href="#">ISO 27701</a>, etc.</li><li>● The <a href="#">ENISA website</a> for GDPR compliance</li></ul>
CISO	<ul style="list-style-type: none"><li>● Key cybersecurity standards such as <a href="#">ISO 27001</a> and the <a href="#">NIST cybersecurity framework</a></li></ul>

## Resources for Developers

If you'd like to find out more about applying best practices in development, the NCSC has published a [guide for secure development and deployment](#). It covers a number of topics including protecting code repositories and planning for security flaws.

Non-profit organization [SAFECode](#) has also put together a number of resources to promote secure development.

## Security by Design Resources

Here are a few resources to help you get started with security by design:

- The [CISA's documentation on implementing security by design](#)
- The [European Data Protection Board's \(EDPB\) recommendations on personal data protection by design and by default](#)

## Resources on the Zero Trust Model

The UK NCSC has [published a number of design principles](#) to assist in the implementation of Zero Trust architecture.

NIST has published a document on [Zero Trust architecture](#).