

**Cyber  
Upgrade**

Template

# Cybersecurity maturity assessment questionnaire template

Aligned with DORA, ISO 27001, NIS2, and industry best practices



Continuous Cloud Scanning



Vulnerability Detection & Identification



Risk Prioritization & Assessment



Actionable Insights & Recommendations



## How to score and analyze

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### 1. Assign maturity levels

For each question, assign a maturity score from 1 to 5 based on the defined scale.



### 2. Average and weighted scores

- Calculate an average score for each domain.
- If some domains are more critical to your organization, you may assign weights to calculate an overall maturity score.



### 3. Identify gaps & prioritize improvements

- Focus first on areas with low maturity scores that also have a high impact on your organization's overall risk profile.
- Develop a remediation plan with clear owners, timelines, and resource requirements.



### 4. Document and track progress

- Retain evidence for each rating.
- Schedule periodic reassessments (annually or semi-annually) to track your improvement trajectory.

## Maturity scale

Most maturity scales range from 1 (Non-Existent) to 5 (Optimized). You can customize each level as appropriate for your organization, but a commonly used scale is:

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① **Level 1 – Non-existent/Ad hoc**

For each question, assign a maturity score from 1 to 5 based on the defined scale.

② **Level 2 – Repeatable but intuitive**

Some awareness and basic processes, but they are inconsistent.

③ **Level 3 – Defined**

Documented procedures, standards, and guidelines in place.

④ **4. Document and track progress**

Processes are consistently followed and measured for effectiveness.



## 1. Organizational Security & Governance

### 1.1 Security governance structure

- Does your organization have a defined cybersecurity governance structure (e.g., designated CISO, security committee)?
  - Is there an executive sponsor or board-level involvement in cybersecurity strategy?
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### 1.2 Policies and standards

- Are cybersecurity policies, procedures, and standards formally documented and regularly reviewed?
  - Does your organization have a process to ensure these policies and standards are communicated and enforced?
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### 1.3 Risk management program

- Is there a documented, organization-wide risk management program that includes cybersecurity risk?
  - How often are security risk assessments conducted, and is there a formal methodology (e.g., NIST RMF, ISO 27005)?
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### 1.4 Compliance & regulatory requirements

- Are legal and regulatory requirements (e.g., GDPR, HIPAA, PCI-DSS, SOX) identified, tracked, and integrated into cybersecurity policies?
- Is there a formal process to monitor changes in relevant regulations and ensure ongoing compliance?



## 2. Asset & data management

### 2.1 Asset inventory

- Does your organization maintain a comprehensive, up-to-date inventory of critical assets (hardware, software, data)?
  - Are critical assets classified based on sensitivity and business value?
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### 2.2 Data classification & handling

- Is there a formal data classification policy that defines handling requirements for different data types (e.g., public, internal, confidential)?
  - Are there guidelines or technical controls for data at rest and data in transit, especially for sensitive data?
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### 2.3 Data retention & disposal

- Are data retention periods defined and enforced for all data types?
- Are secure data disposal methods (e.g., secure wipe, shredding) consistently applied?



## 3. Access control

### 3.1 Identity & access management (IAM)

- Does your organization have centralized IAM solutions (e.g., single sign-on, directory services)?
  - Are strong authentication methods (e.g., MFA) implemented for critical systems?
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### 3.2 Privilege management

- Are privileged accounts (e.g., administrator, superuser) managed with strict controls and monitoring?
  - Is there a process for periodic review of user access rights to ensure least privilege is maintained?
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### 3.3 Remote access

- Is remote access (VPN, RDP, etc.) secured with multi-factor authentication and encryption?
- Are remote sessions monitored or logged for potential security events?



## 4. Network & endpoint security

### 4.1 Network segmentation & security

- Are critical systems and data segregated from general network segments (e.g., through VLANs, DMZ architecture)?
  - Are network traffic logs and alerts centrally collected and monitored?
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### 4.2 Endpoint security

- Are endpoint protection tools (antivirus, EDR, patch management) consistently deployed across the enterprise?
  - Are endpoints regularly scanned for vulnerabilities, and are patches applied in a timely manner?
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### 4.3 Secure configuration management

- Are secure baseline configurations defined and implemented for servers, workstations, and network devices?
- Is there a process to verify and document all configuration changes?



## 5. Threat & vulnerability management

### 5.1 Vulnerability assessment

- Are regular vulnerability scans performed on internal and external systems?
  - Does the organization have a formal process to prioritize and remediate identified vulnerabilities?
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### 5.2 Penetration testing & red team exercises

- Are penetration tests conducted periodically to identify weaknesses in applications, networks, and systems?
  - Does the organization conduct advanced exercises (e.g., red team/blue team) to assess detection and response capabilities?
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### 5.3 Threat intelligence

- Does your organization subscribe to threat intelligence feeds or participate in information-sharing communities (ISACs)?
- Is threat intelligence integrated into security monitoring and incident response workflows?





## 6. Security operations & monitoring

### 6.1 Security operations center (SOC)

- Do you have a dedicated SOC (internal or outsourced) responsible for threat monitoring and incident response?
  - Is SOC staff properly trained and equipped with the necessary tools (SIEM, SOAR, etc.)?
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### 6.2 Logging & monitoring

- Are critical systems and applications configured to generate logs that are centrally aggregated?
  - Are logs monitored in real-time for anomalous behavior, and is there a defined log retention policy?
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### 6.3 Metrics & reporting

- Does your organization track and report on key security metrics (e.g., number of incidents, mean time to detect/respond)?
- Are these metrics regularly reviewed by management to drive improvement?



## 7. Incident response & business continuity

### 7.1 Incident response plan (IRP)

- Is there a formally documented Incident Response Plan that defines roles, responsibilities, and procedures?
- Are tabletop exercises and incident simulations conducted periodically to validate and refine the IRP?

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### 7.2 Business continuity & disaster recovery

- Does the organization have a documented Business Continuity Plan (BCP) and Disaster Recovery Plan (DRP)?
- Are critical systems regularly backed up, and is backup data tested for integrity/restoration?

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### 7.3 Lessons learned & continuous improvement

- After a security incident, is a post-incident review conducted to capture lessons learned?
- Are improvements from incident reviews consistently integrated into policies and controls?



## 8. Security awareness & training

### 8.1 Security awareness program

- Does your organization have a formal, ongoing security awareness and training program for all employees?
  - Is training content updated regularly to address current threats and organizational policies?
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### 8.2 Phishing & social engineering tests

- Are regular simulated phishing campaigns or social engineering tests conducted?
  - Is there a process to follow up with users who fail these tests, including targeted training?
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### 8.3 Role-based training

- Do employees in high-risk roles (e.g., IT admins, developers) receive specialized security training?
- Are training completion records maintained and reviewed for compliance?



## 9. Third-party & supply chain risk

### 9.1 Third-party risk management

- Do you have a formal process to evaluate and onboard third parties or vendors (e.g., security questionnaires, contract clauses)?
  - Is there a continuous monitoring or periodic reassessment of third-party security posture?
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### 9.2 Supply chain security

- Are suppliers and service providers that handle sensitive data required to meet specific security standards?
  - Do contracts or SLAs include clear cybersecurity requirements (e.g., right to audit, breach notification timelines)?
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### 9.3 Cloud security governance

- Are security expectations defined for cloud providers (IaaS, PaaS, SaaS), including data protection, encryption, and incident response requirements?
- Are cloud environments reviewed and monitored for compliance with organizational policies?



## 10. Program maturity & continuous improvement

### 10.1 Formal assessment & benchmarking

- Does your organization routinely benchmark its cybersecurity program against recognized frameworks (e.g., NIST CSF, ISO 27001)?
  - Is there a defined frequency (e.g., annually) to perform holistic security assessments?
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### 10.2 Security roadmap & strategy

- Is there a long-term security roadmap aligned with business objectives and risk assessments?
  - Are resources (budget, personnel) allocated in line with the roadmap and risk priorities?
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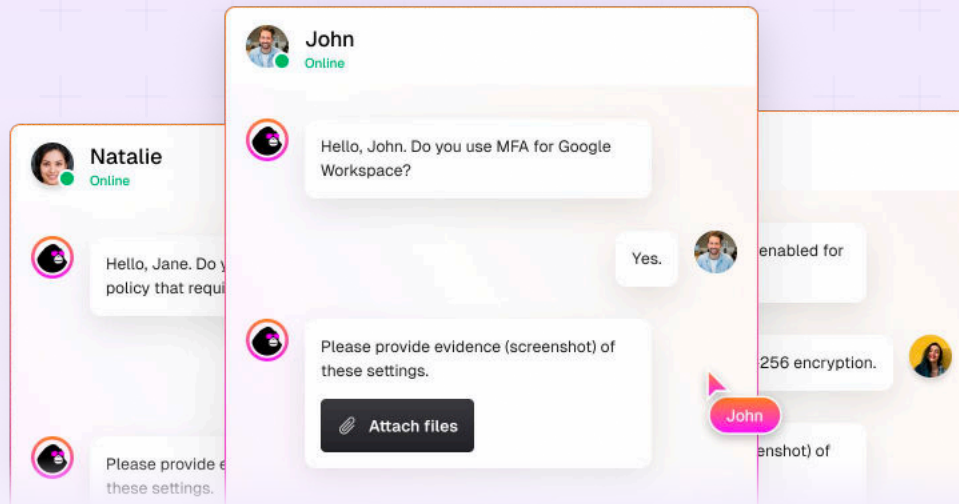
### 10.3 Continuous improvement cycle

- Do you have a mechanism (e.g., security steering committee) to oversee cybersecurity improvements?
- Is feedback from incidents, audits, and external assessments used to drive updates to the cybersecurity strategy?

[Additional resources](#)

## Example summary table

Domain	Average maturity score	Priority areas for improvement
Information Security Policy	3.0	Formalize risk assessment schedule
Cloud Architecture Diagram(s)	2.5	Establish comprehensive asset inventory
Risk Management & Governance Policy	3.5	Implement MFA for all critical systems
Data Classification & Handling Guidelines	3.0	Enhance endpoint protection coverage
Incident Response Plan	2.5	Increase frequency of penetration tests
IAM Policy & Procedures	3.5	Improve real-time monitoring and alerting
Vulnerability & Patch Management Policy	2.0	Update incident response and DR plans
Business Continuity & Disaster Recovery Plan	4.0	Expand role-based training for technical staff
Vendor Management & Third-Party Agreements	2.5	Strengthen vendor due diligence process
Compliance / Audit Reports	3.0	Develop a long-term cybersecurity roadmap



## Tired of endless custom security questionnaires? Ease the burden with CyberUpgrade

The CyberUpgrade team is deeply knowledgeable about DORA and the complexities of third-party risk management. We simplify these challenges with expertise and real-time support, ensuring your vendor ecosystem remains resilient and compliant. With an efficient AI questionnaire assistant, we automate up to 90% of the questionnaire process.

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### Further reading & resources

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📖 Download [Mastering third-party risk management under DORA eBook](#)

📖 Visit our [blog](#) for more resources