

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Continuous Monitoring

Introduction to Continuous Monitoring

- Overview of Continuous Monitoring (CM)
- Importance and benefits of CM
- Evolution and trends in CM practices
- Role of CM in cybersecurity and risk management

Regulatory and Standards Frameworks

- Overview of relevant regulatory requirements (e.g., GDPR, HIPAA, PCI-DSS)
- Introduction to standards frameworks (e.g., NIST RMF, ISO 27001)
- Aligning CM with compliance and regulatory obligations

Components of Continuous Monitoring

- CM processes and methodologies
- Tools and technologies for CM (e.g., SIEM, IDS/IPS, endpoint detection and response)
- Integration with existing IT infrastructure and operations

Data Collection and Analysis

- Methods and techniques for data collection
- Data aggregation and normalization
- Real-time vs. periodic monitoring approaches

Incident Detection and Response

- Threat detection strategies
- Incident response planning and execution
- Automating response actions and workflows

Security Controls and Metrics

- Identifying and implementing security controls
- Key performance indicators (KPIs) for CM
- Metrics and reporting for monitoring security posture

Threat Intelligence and Monitoring

- Role of threat intelligence in CM
- Monitoring for indicators of compromise (IOCs) and threat actors
- Leveraging threat intelligence platforms

Automation and Orchestration

- Automating CM processes
- Orchestration of security workflows
- Integration with DevOps and IT operations

Continuous Improvement and Adaptation

- Strategies for continuous improvement in CM
- Evaluating and refining CM programs

- Addressing emerging threats and vulnerabilities

Case Studies and Practical Applications

- Real-world examples and case studies
- Hands-on exercises and simulations
- Analysis of successful CM implementations

Ethical and Legal Considerations

- Privacy implications of CM
- Legal and regulatory constraints
- Ethical considerations in monitoring and response

Management and Governance

- Roles and responsibilities in CM
- Establishing a governance framework
- Monitoring and reporting to stakeholders

Future Trends in Continuous Monitoring

- Emerging technologies in CM (e.g., AI/ML, predictive analytics)
- Future directions and innovations in CM practices