

NETWORK SECURITY

By: **Dream Tech LLC**

NETWORK SECURITY

• I aspect of cyber defense-in-depth that focuses on deploying security controls and processes involving both hardware/software to protect information from intrusions and threats.

 Involves People, processes and policies related to rules, configurations, accessibility for overall threat protection and relief.

WHY IS IT IMPORTANT?

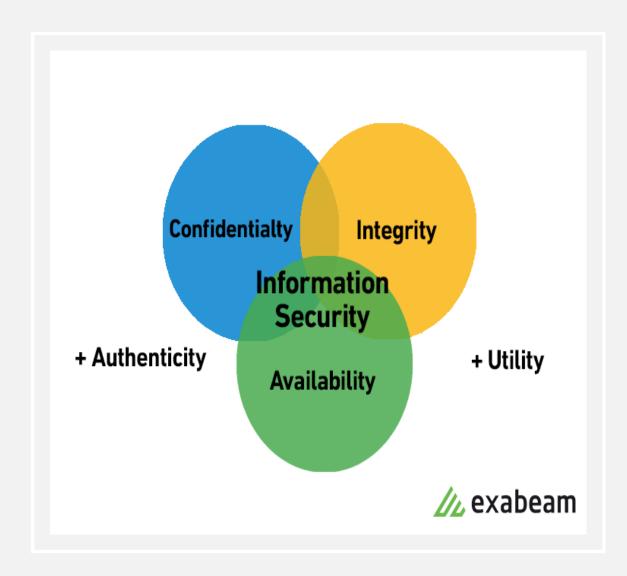
- I) Requirement
- Data breaches costs more money to respond to
- 3) Cyber-attacks are constantly rising and have become APT's
- 4) Prevents data loss
- 5) Promotes business continuity
- 6) Fines and legal ramifications
- 7) Loss of business





BENEFITS OF NETWORK SECURITY

- Reducing overhead of breach recovery expenses (investment v.s. response)
- Safeguards sensitive information (Client & employee)
- Streamline business processes
- Successful delivery of products and services
- Ensure legitimate access to systems, applications and data for safe and secure delivery of products and services to customers
- Ensure reliability & [performance of network functionality



3 KEY FOCUSES

Protection

- Involves the security tools and policies deployed to prevent malicious network intrusions and disruptions

Detection

- The resources necessary to allow the analysis of network traffic in real-tie and identify any deviations of normality before they evolve and transform to cause impact and long-term harm to information

Response

- The ability to react and triage to discovered security threats and resolve them as quickly as possible and prevent further concern with deploying technical and administrative security controls

TOOLS/TECHNIQUES

- **Access control**
- Anti-threat software/hardware appliances
- Anomaly detection such as IDS/IPS systems
- **Application Security**
- (DLP) Data loss prevention
- **Email Security**
- (EDR) Endpoint detection & response
- **Firewalls**
- **Network segmentation**
- (SIEM) Security information and event management
- (VPN) Virtual private network
- Web security

BEST PRACTICES

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- Network audit
- Assess vulnerabilities, unused ports/applications, and backups
- Deployment of security devices (Monitor, detect & triage)
- WAF ,IDS/IPS and SIEM
- Patch management; Periodic system and device pushed updates
- Disable file sharing features
- Address all 3 layers; Technical, Physical and Administrative
- Operate critical servers within a (DMZ) Demilitarized zone
- Conduct annual or bi-annual penetration tests on all critical systems