




Cyber Crime

What is it? How does it occur? How can we prevent it? What if it happens?





Cyber Crime : Thought Provoking Statistics

- In the Year 2020:
 - 5 Billion People will be “Online”
 - 50 Billion Devices will be Connected
 - 75% of the online infrastructure will be controlled by 3rd Party Cloud or Internet Service Providers.
 - 92% of workloads will be processed by cloud data centers.



Cyber Crime – What is it?

- Crime that involves a computer and a network.
 - The computer may have been used in the commission of a crime, or it may be the target.
 -criminal motive to intentionally harm the victim.....
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Cyber Crime – What is it?

- ▶ Computer Fraud

- ▶ Dishonest misrepresentation of fact intended to cause loss




Cyber Crime – What is it?

- ▶ Computer Fraud

- ▶ Theft of Personally Identifiable Information

- ▶ Name
 - ▶ Social Security Number
 - ▶ Address
 - ▶ Driver's License Number
 - ▶ Fingerprints
 - ▶ Date of Birth or Birthplace
 - ▶ Telephone Number or Email Address
 - ▶ Information that can be used on its own or with other information to identify, contact, or locate a single person, or to identify an individual in context. (Identify Theft)




Cyber Crime – What is it?

- Theft of Credit Card Account Information


- Credit Card Number
- Expiration Date
- Three Digit Security Code (CSS)

- Theft of Bank Account Information

- Account Number : Routing Number
- Online Banking Access Credentials



Cyber Crime – What is it?

- Extortion
 - Theft of Classified Information
 - Cyber Terrorism
 - Cyberwarfare
 - DarkNet Markets
 - Computer Viruses, Denial of Service, Malware
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Cyber Crime – How Does it Occur?

- Phishing & Spear Phishing: Links
 - Spamming: Attachments, Links
 - Skimming: Physical and Wireless
 - Malware & Viruses: Key Loggers, Ransomware
 - SQL Injectors: Websites
 - Denial of Distributed Service Attacks: Websites
 - Security Flaws: Updates and Patches
 - Password Hacking: Strong, Change, No Sharing
 - Humans: Education & Awareness
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Cyber Crime – How Can we Prevent This?

- Email Filters
 - Web Filters
 - Update and Patching Policy
 - Password Policy – 2 Factor Authentication, No Defaults
 - Backups
 - Encryption
 - User Login Privileges
 - Layered Security
 - Awareness Training
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Cyber Crime – How Does This Affect Me?

- Parishioner Identity
 - Staff Identity
 - Parish Funds (\$'s)
 - Parish – Diocese – Catholic Reputation
 - Indirect Costs
 - Downtime
 - Lost Productivity
 - Lost Data
 - Stress!
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Cyber Crime – What If This Occurs to Me?

- Incident Response Plan
 - Purpose & Scope
 - Primary & Secondary Response Team Members
 - Contact Information: ISP, Webhost, Legal, Bank, Insurance
 - Step by Step Response:
 - Alert & Activate
 - Record Details
 - Secure the Area
 - Stop Additional Data Loss
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Cyber Crime – What If This Occurs to Me?

- ▶ Step by Step Response (Continued)
 - ▶ Assess Priorities & Risks
 - ▶ Identify Legal Obligations
 - ▶ Contact Forensic Investigators
 - ▶ Report to Executive Team
 - ▶ Notification Process
 - ▶ Operational Challenges
 - ▶ Review & Wrap Up



Cyber Liability Insurance:

