School of Computing Science and Engineering Course Code: CSCN 4021 Course Name: Cyber Crime Investigation



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Introduction to E-mail System

- ✓ E-mail is the popular form of sending or exchanging information between two or many parties
- Despite being popular, malware, spam and phishing attacks are executed

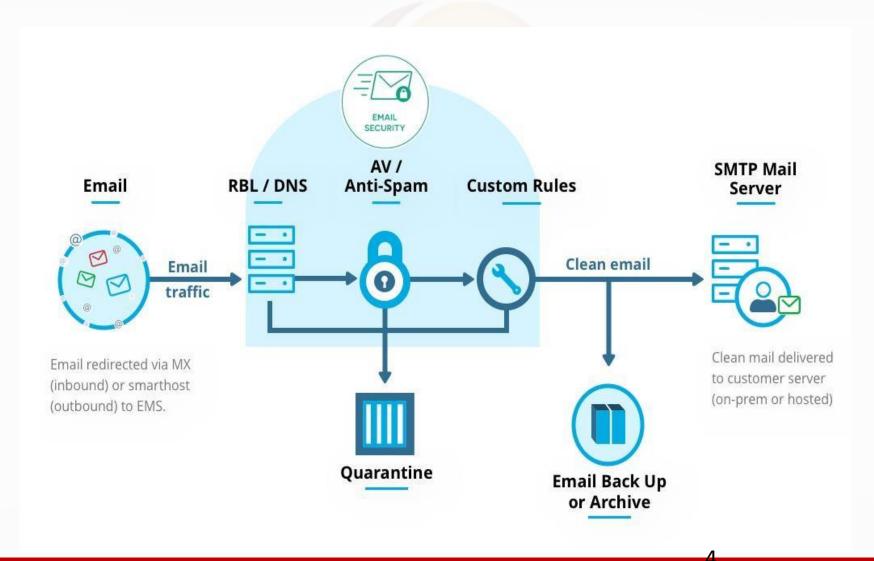
E-mail also acts the entry point for the enterprise network to gain access to their valuable data

E-mail Security

- It deals with the different techniques to secure the information sent through email
- The e-mail accounts are prevented from unauthorized access, loss, or compromise
- It is important to provide e-mail security as individuals and business organizations expand their extensive communication through email

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E-mail Security



Program Name: B.Tech

Need for E-mail Security

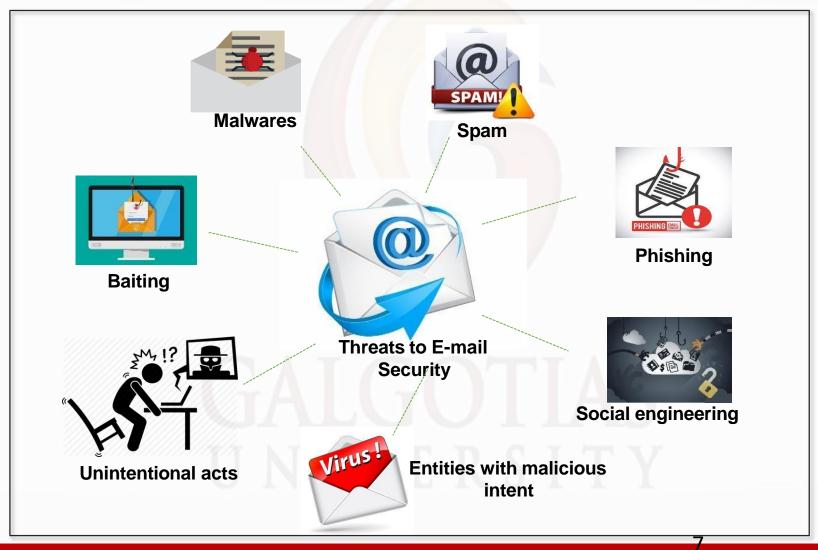
- Every organisation must employ e-mail administrators responsible in providing security to the e-mail system
- It is important to provide e-mail security as individuals and business organizations expand their extensive communications through e-mail
- Hence E-mail messages must be secured as they are delivered and received across untrusted networks

Importance of E-mail Security

- It provides security over external networks security i.e., outside the organization's boundary
- It maintains the CIA of information transferred through e-mail
- It provides implementation of good management system planning by continuous monitoring
- It also maintains the effectiveness of the e-mail system and IT infrastructure

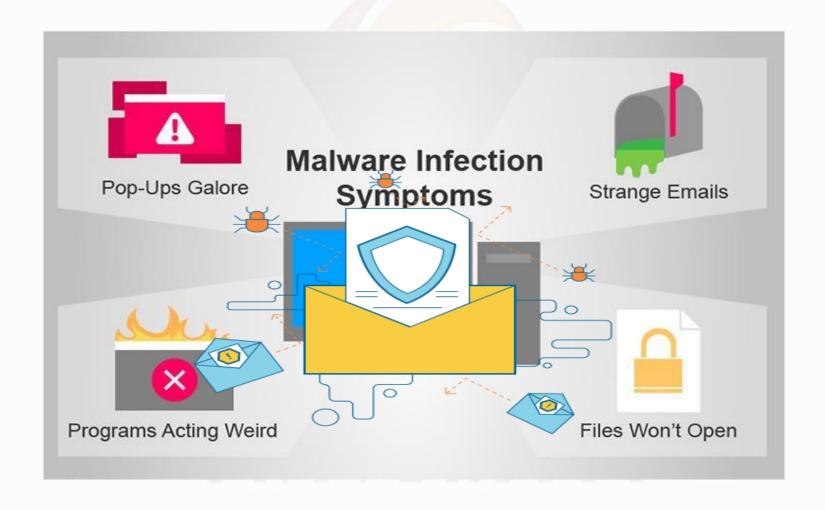
6

Common Threats to e-mail security

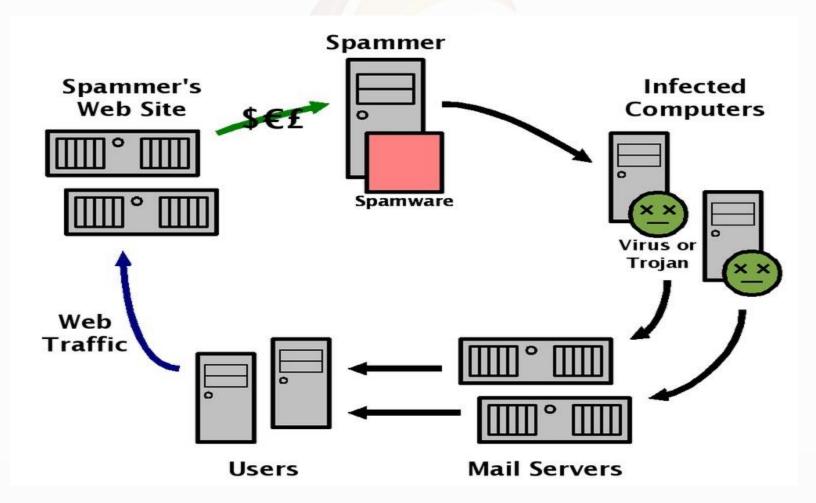


Program Name: B.Tech

Malwares infecting E-mail systems



Cycle of spam in E-mail system



Ways to spot phishing E-mails



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Maintaining a Secure Mail System

- Maintaining a mail system security is a continuous process that requires constant effort, resources, and vigilance
- Some of the actions taken are as follows,
 - Configure, Protect, and Analyze Log Files
 - Back up Data Frequently
 - Protect against Malware
 - Perform Periodic Security Testing

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References

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Thank You