



جامعة الحميدانية / كلية التربية

قسم علوم

الحاسوب
Fourth
Class

Data Security

أستاذ المادة:

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- **Steps to Better Security**



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● What Is Networking?

➤ *Networking is the exchange of information and ideas among people with a common profession or special interest*



BENEFITS OF COMPUTER NETWORK



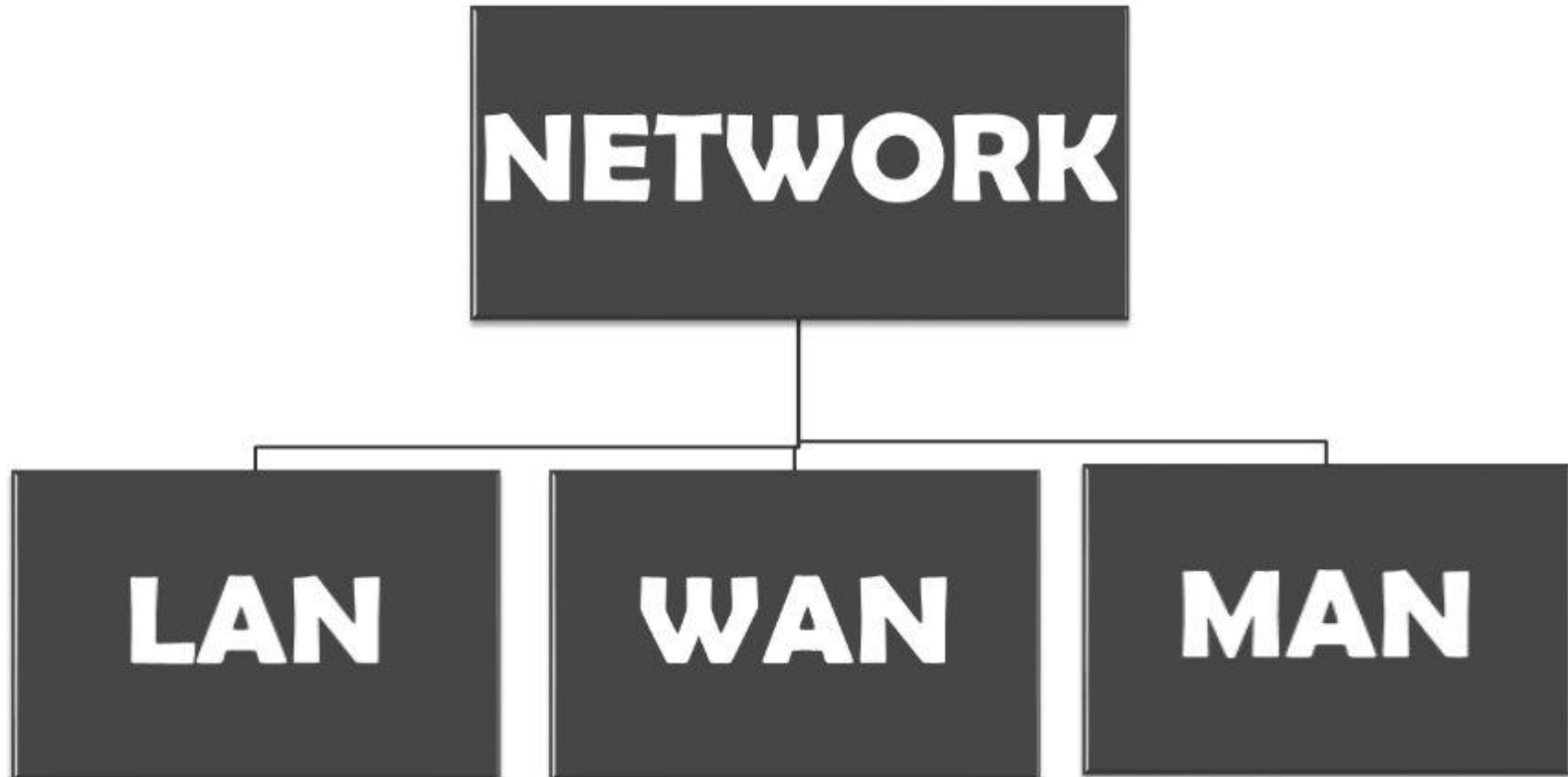
- o Increased speed
- o Improved security
- o Electronic mail
- o Reduced cost
- o Centralized software managements
- o Flexible access

DISDAVATAGES OF NETWORKS

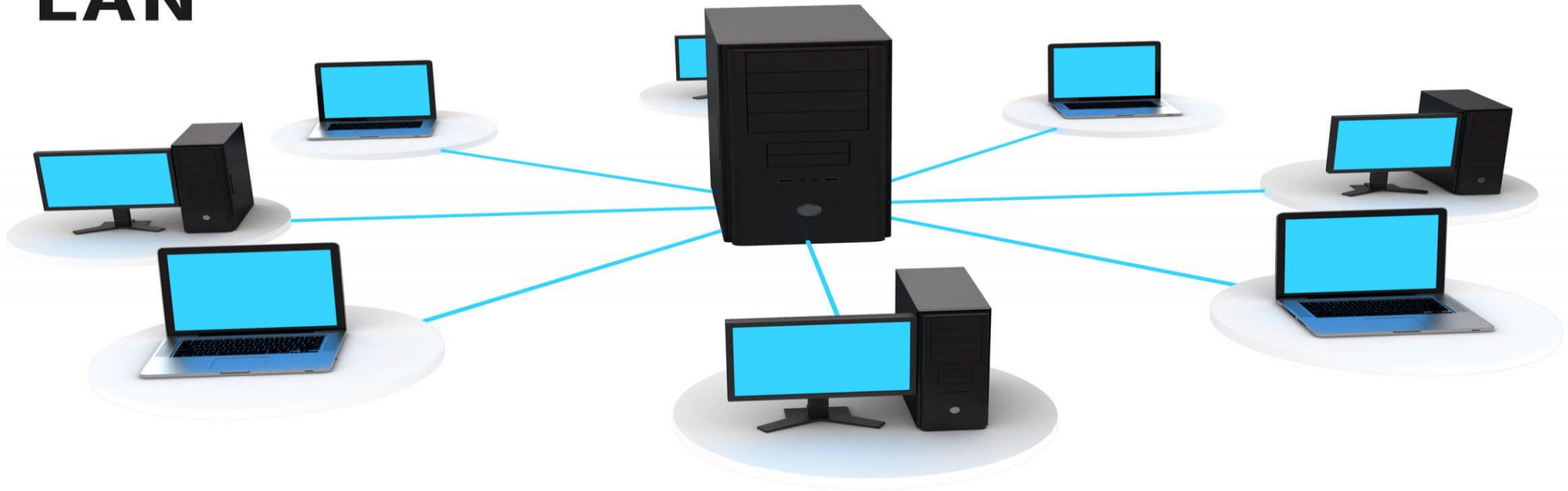


- o High cost of installation
- o Requires time for administration
- o Failure of server

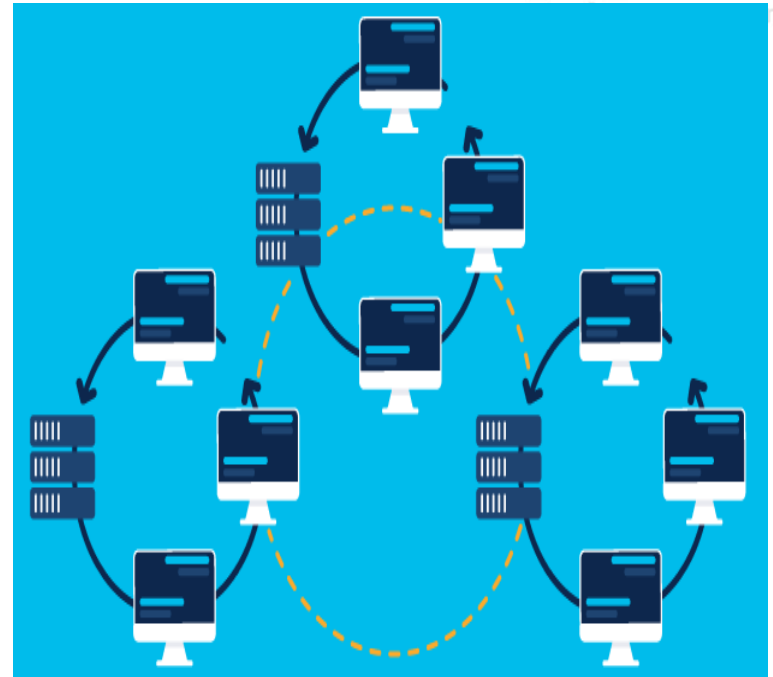
CLASSIFICATION OF AREA BY THEIR GEOGRAPHY



LAN

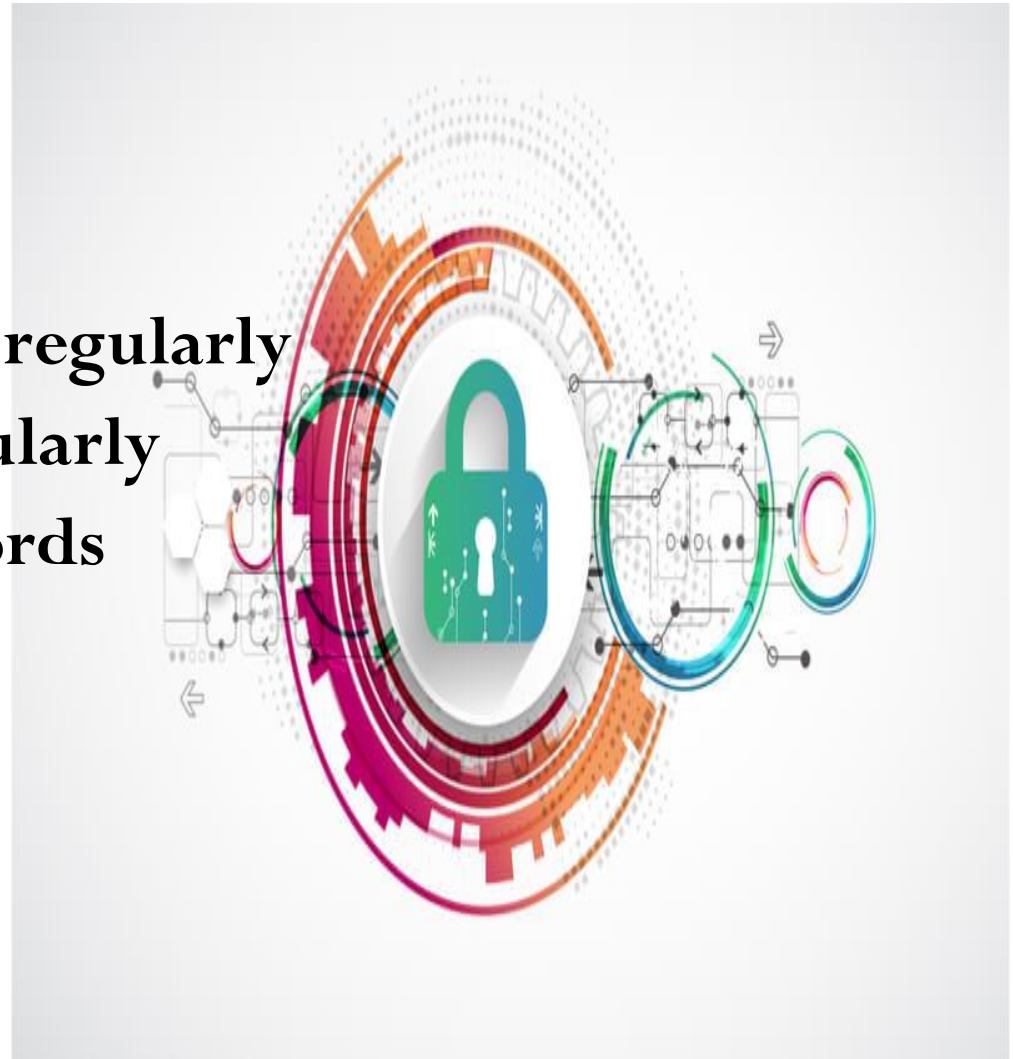


MAN METROPOLITAN AREA NETWORK



The following steps will help you increase the security around your data:

- **Encrypt all devices**
- **Delete redundant data**
- **Update your programs regularly**
- **Back-up your data regularly**
- **Establish strong passwords**



- **Encrypt all devices**



- In today's world, more and more people are choosing to work on mobile or personal devices. How can you ensure that these devices are trustworthy?
- Make sure that all data is stored in an encrypted format and remains encrypted during migrations.



• Delete redundant data

• Many organizations deal with sensitive information as an essential part of their business; including companies in healthcare, finance, the public sector and education.



• Ensuring information disposal mechanisms are in place helps prevent stale data from being forgotten about and stolen at a later date.

• Having a system for shredding, erasing or otherwise modifying redundant data to be indecipherable will go a long way to ensuring your employees don't stash it away.



- **Establish strong passwords**



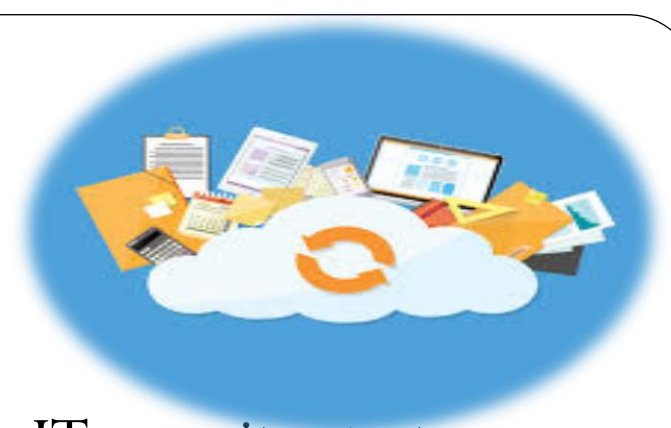
- Many organizations are still employing relaxed password policies, leading to simple, generic and easy-to-hack passwords for critical accounts, which have access to the sensitive and valuable data.

- Implementing strong passwords is the first step you can take to strengthen your security in this area. Use reasonably complex passwords and change them at least every 90 days. Never use passwords like “12345” or “Admin1”.

- Don't ever write down your passwords and leave them on your workstation for other people to find.



- **Back-up your data regularly**

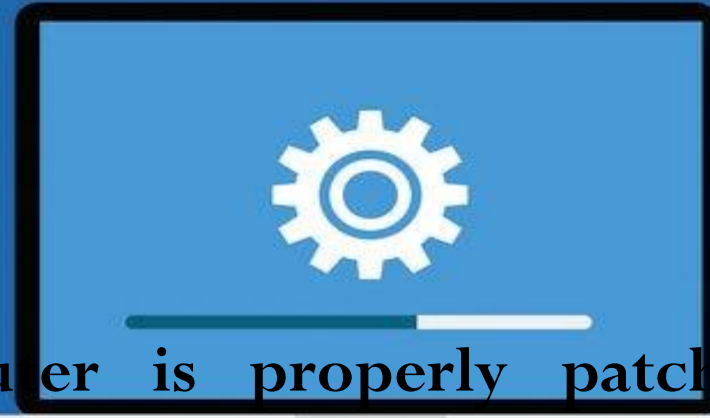


- This should already be a crucial part of your IT security strategy.
- With secure backups in place, you can survive everything .
- As a security best practice, backup data should be stored in a secure, remote location away from your primary place of business.



- Update your programs regularly

UPDATE...

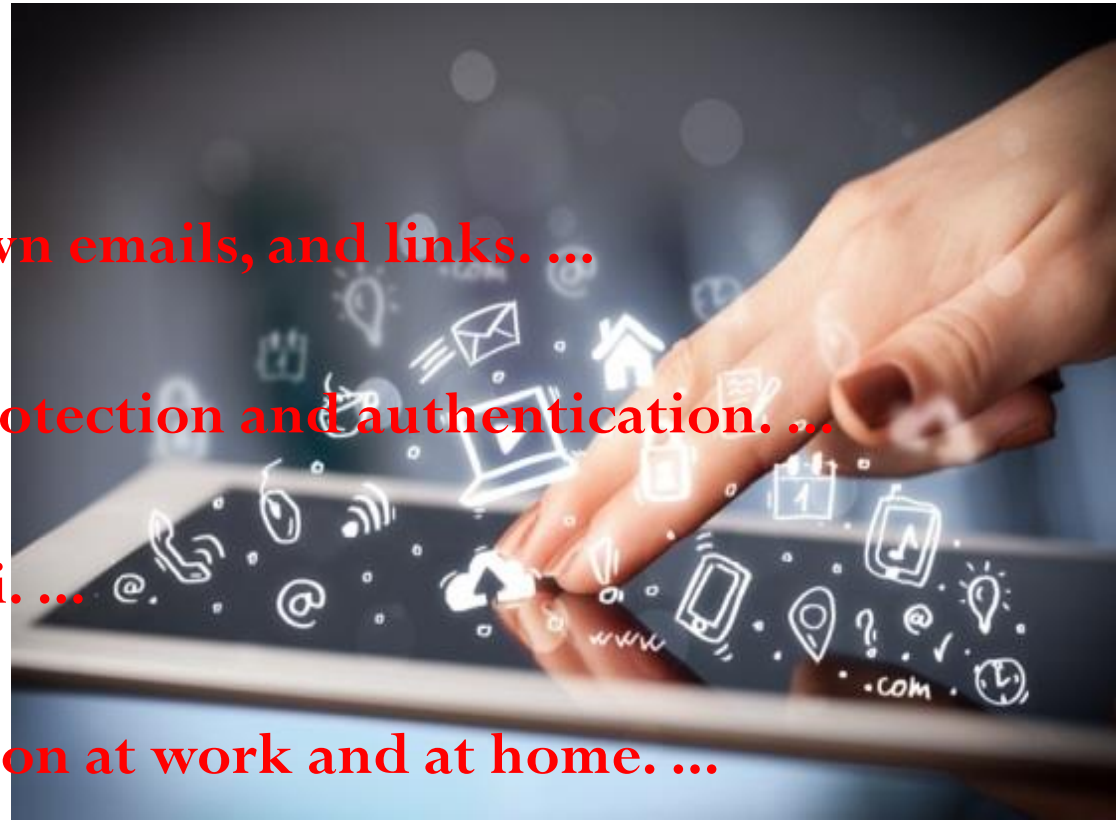


- Make sure your computer is properly patched and updated. This is often the best way to ensure its adequately protected.
- Your security applications are only as good as their most recent update.
- Since hackers are constantly adapting to exploit weaknesses in earlier software versions, it is advisable to update these applications regularly.



● Security best practices

- Protect your data. ...
- Avoid pop-ups, unknown emails, and links. ...
- Use strong password protection and authentication. ...
- Connect to secure Wi-Fi. ...
- Enable firewall protection at work and at home. ...
- Invest in security systems. ...
- Install security software updates and back up your files. ...



Homework

Steps to Better Security

Thank
you