

Keywords: Autumn 1

Computer Science

Topic Title: Computer Networks

| Keyword | Definition |
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| Network | Two or more computers connected to allow the transmission of data between them |
| Local Area Network (LAN) | A network that is situated over a small geographical area, usually one site. The organisation/company owns all transmission media. |
| Nodes | A computer of the network |
| Switch | Directs data on a LAN |
| Router | Directs data from network to network, allows your networked devices to access the Internet. |
| Wireless Access Point (WAP) | Allows devices to be connected to the network wirelessly |
| Transmission Media | Cables or devices that are used to transmit the data over a network e.g. Ethernet cable. |
| Wide Area Network (WAN) | Usually covers a wide geographical area with two or sites/locations – uses third party equipment/transmission media (e.g. BT fibre optic cables), to link sites. |
| The Internet | The largest Wide Area Network. A collection of inter-connected networks. |
| Internet services | |
| Internet Service Provider | |
| World Wide Web (www) | |
| Internet of Things (IOT) | All smart devices that have access to the Internet |
| Bandwidth | The amount of data that can be transmitted, measure in Mbs per second. |
| Latency | The delay between sending and receiving data over a network, or the Internet. |
| Error rate | The amount of data packets that get lost or are corrupted in transmission. |
| Packet Switching | Breaking files down into packets and sending them different routes to the destination. |
| I.P address | Internet protocol address- geographical location of your network. |
| DNS (Domain Name System) | |
| I.P (Internet Protocol) | The standardised set of rules for sending data over the internet using packets and packet switching. |

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| TCP (Transmission Control Protocol) | Breaks files into packets and checks the packets have been received by the recipient. |
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