

How does the internet work

1. What is an ip address

- An ip address (internet protocol address) is a unique identifier assigned to each device connected to a network allowing devices to locate and communicate with each other online
- Websites need ip address to function because they serve as unique identifiers that allow devices to locate and communicate with each other over the internet
- It helps with unique identification, routing traffic, data transmission,

2. What is DNS (Domain Name System)

- The dns is a critical component of the internet that translates human readable domain names into machine-readable ip address this enables seamless communication between users and web sources
- Well when typing in a domain name it connects them instantly to the ip address that is associated with that website instead of putting in complicated numbers and everything like that to go to a website

3. What is a domain name

- A domain name is a more user friendly way to access websites and web services on the internet unlike ip address which is harder to remember a string of numbers which a domain name can help people navigate to websites much easier
- Ease of use makes it easier to find and to remember and to type to make it more user friendly. Flexibility domain names can be easily reassigned or redirected which is useful for businesses

4. How does the internet work

- The journey of data from my computer to a browser it sends request to the server hosting the website the server processes the request and returns a response which includes the status code data packets are then routed through various networks devices like routers and switches to reach their destination then the data is transmitted in the form of packets and assembled into their original form once they reach their destination

5. What is a web browser

- A web browser is a software application that allows users to access retrieve and interact with content on the internet
- A web browser acts like a gateway to the internet allowing users to access retrieve and view information it retrieves web pages displayed next to images and videos and lets users interact with online content

6. What is HTML

- HTML defines the layout and structure of a web page using elements and tags; these tags specify the content such as headings, paragraphs etc. it also provides the structural framework that organizes content enabling browsers to render display information
7. What happens when you enter a url into a browser
- When entering a url into a web page it starts to go through multiple stages helping with that url get to the right url or ip address to get to the server