



## Denial of Service (DoS) Attack

[Source: IE](#)

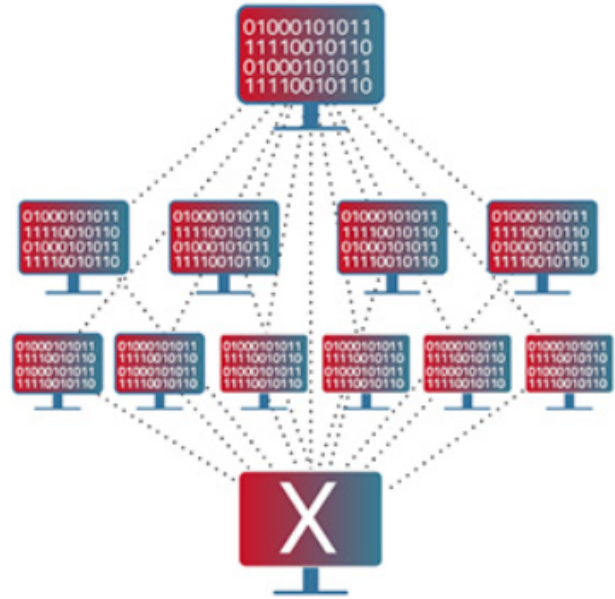
Recently, Tesla CEO Elon Musk's interview with former US President Donald Trump on X (previously Twitter) was disrupted by a cyber attack called [Denial of Service \(DoS\)](#).

- A **DoS attack means** that a website cannot be accessed because it has been targeted by **directing a large number of users against a particular online server** at the same time.
  - **Bots** can be used to **overwhelm the network**, resulting in slow loading times or a total pause in internet services.
- **Types of DoS Attacks:**
  - **Smurf Attack:** Attackers use a **fake IP address** which actually belongs to the target machine. As the target machines respond, they end up **flooding their own servers**, resulting in a DoS attack.
  - **SYN Flood Attack:** The attacker **sends a request** to connect to the target server but does **not complete the connection**. **Multiple targeted incomplete connections** again result in a load for the server, making it difficult to complete legitimate connections smoothly.
- **Example of DDoS:** Before the [Paris Olympics 2024](#), hackers named "**Anonymous Sudan**" had launched a [Distributed Denial of Service \(DDoS\)](#) attack on French government network infrastructure.
  - The principal **difference** between a **DoS attack and a DDoS attack** is that DoS is a **system-on-system attack**, while the DDoS involves **several systems attacking a single system**.

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DoS attack



DDoS attack

Read More: [Cyber Security](#)

PDF Refernece URL: <https://www.drishtias.com/printpdf/denial-of-service-dos-attack>

