

diff. hacking methods or cyber attacks

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assignment - 1

malware attack: common, virus softwares to steal confidential data, clicking dangerous website.

phishing attack: attacker impersonates to be a trusted contact and sends the victim fake mails to hack him.

password attack: ~~attacker~~ hacker cracks your password, ex: brute force attack.

man in the middle attack: the attacker hijacks the session between a client and a host and steals and manipulate data.

denial of service attack: threat to companies, attacker targets systems, servers or networks and flood them with traffic to exhaust their resources and bandwidth.

insider threat: individuals with greed or carelessness.

assignment - 2

define monolithic and microservices architecture and differentiate between REST and soap.

monolithic architecture: traditional unified model for the design of a software program, composed all in one piece, ~~into~~ large, unable to be changed.

microservices architecture: a style for developing applications, allows large application to be separated into smaller and independent parts, ~~with~~ with each part having its own realm of responsibility.

~~REST~~ SOAP

XML based protocol

calls services using
RPC method

no human readable
result.

uses WSDL for
communication

transfer is over HTTP,
also use SMTP, FTP

Javascript can call soap
but difficult to implement

Performance is not great
compared to REST

~~SOAP~~ REST

architectural style

calls services via
URL path.

human readable
result.

uses JSON to send &
receive data.

transfer is over HTTP
only.

easy to call from
javascript.

Performance is much
better compared
with soap.