

Organizations have a duty to protect sensitive data within applications. To that end, you must encrypt critical data while it is at rest & in trasit This includes financial transactions, web data browser data. & information residing in nobile apps Regulations like the EU General Data protection Regulation make dutaprotection a se vous compliance issue. what are the security policies & compliance rule required in above organisation & Explain in brief. @ Acceptable Use policy - It outlines the acceptable use of computer equipment. It is used for business purposes in serving the interests of the company clients. & customers in the course of normal operation (b) security Avareness & Training Policy- It should be administered to all workforce members, so they can properly carry out their functions while oppro-O Change management Adicy - An organization's change management policy ensures that changes to an information system are managed, approved and a) traident Response Policy- It is part of an organization's Business continuity Plan It outlines

en organizations response to an information

security incident.

- Renote Access Policy Renote access involves connecting to the company's network from any host. It is designed to minimize potential exposure from damages that may result from anauthorized use of resources.
- Password creation & Management Policy- It
 provides guidance on developing implementing &
 reviewing a documented process for appropriately
 creating, changing & safeguarding strong & secure
 passwords used to verify user identities & obtain
 access for company systems or information.
- Thereon security Policy It ensures the confidentiality integrity & availability of duta on company's systems by following a specific procedure for conducting information system & network activity review on a periodic basis.



Explain intresion Detection & Prevention Mechanism 1. An intusion detection & prevention system monitors a network for possible threats to dert the administrator, thereby preverting potertial attacks. Forchors of Jops @ Guards technology intrastructure & sensitive data: pata is constantly flowing through the network, so the easist way to attack or gain acress to a system is to hide within the actual data. The Insport of the system's reactive alenting security experts of such possible (b) Reviews existing user & security policies - Every security driver organization has its own set of user policies & access related policies for its applications & systems. e) Gather information about n/w resources - An TDS-IPS also gives the security teem a birds eye view of the traffic flowing through its no This helps then keep track of nho resources allowing then to modify a system in case of traffic overload or inder-usage of severs IV. An IDPS works by sconing processes for hamful patterns, company system files & monitoring users behavior & system patterns IPS uses web application firewalls & traffic filtering solutions to achieve incident prevention

Types of Inps.

@ Metwork based itsoon prevention System-Monitor the entire networks or network segment for malicious traffic. This is usually done by analyzing protocol activity.

Direless infusion Prevention systemmonitor coircless networks by analyzing wireless networking specific protocol. with one deployed within the wireless network &in areas that are susceptible to mauthorized coirdess networking.

O Hetwork behavior Analysis - While HIPS analyze devication in protocol activity, network behavior analysis systems identify threats by checking for in usal traffic patterns.

It differ from the rest in that they're deployed in a single host monitors the traffic flowing in & out of that particular host by monitoring running processes, network activity, system logs, application activity.



Explain web application security refers to a venety of processes, technologies or methods for protecting ueb servers, web applications & web services sub as APIs from attack by internet based threats. Il. web application security is audial to protecting data austoners Lorganizations from data theft interruptions in business continuity or other hamfil results of experience. III. The world today mas an apps, formanine banking I renote work apps to personal entertaiment delivery & e-connecte. Itiss wonder that applications are aprimary target for attackers who exploit vulnerabilitie such as vealoress of in Apts, open source code 14. Common attacks against ueb application-Brute force, syl injection, anss-site scripting cookie poisoning, session hijacking The application francion provides a holistic approach to information security loss magenest by providing organizations with the breadth & depth of verifying! validating seconty controls that are necessary to strengthen information systems & the associated extranments.