Security Architecture.

- Security Architecture and design describes fundamental logical, Hardware, Operating System and Software security Components, and how to use those Components to design, Architect and evaluate secure Computer Systems.
- It also includes a description of designing, architecting and evaluating the system to provide security.
- Security architecture describes how system security is integrated to satisfy security requirements. security architecture is one aspect of System architecture.
- We need security Architecture to protect Confidentiality, Integrity, and Availability from environmental threats, technical threats.
- With the help of Security Architecture, weaknesses can be identified before the system is built.
- Security Architecture model Consists of resource layer, Control layer, perimeter layer and extended perimeter layer.

Layer		Components
1- Resource layer	–	O.S, Data, Applications
2- Control layer	–	Access Management.
3- Perimeter layer	–	VPN, firewall, IDS
4- Extended Perimeter layer	–	Service level agreement.

Scanned by CamScanner

Security Issues in Hardware, Data Storage device & Downloadable (peripheral) Devices.

Security Issues in Hardware :-

- Hardware is the component on which entire Computer system is based. It includes the processor, Chips, and Hard drive which are need to be secured.
- Hardware also includes the portable things like Smart Card, Credit/debit Cards, Laptops etc.

Issues/ threats in Hardware Security

- Stealing
- Destruction
- Unauthorized Access

Prevention to Hardware Security

- Using locks. (
- Access Control Mechanism (eg. biometric access Control, finger Scan etc)
- using VPN's firewalls.

Security Issues in Data Storage Device

- Data Storage device are used to to store or save the data.
- Some device are USBs, CD, DVD (Digital Versatile Disks), memory Cards etc.

Issues/ Thruat to Data Storage Device

Scanned by CamScanner

- Unauthenticated user get access to device
- Loss and theft of data.
- Malware by intruders
- Modification by unseen external attacker.

Prevention Measures

- Need to educate/train the people and make them aware.
- Use of advanced surveillance and monitoring technology.

Security Issues in Downloadable Devices.

Those devices which are used to download the data. Some devices are USB drives, USB Patch Cords, Connectors, electronic notebook, PDAs etc.

- These devices are used to store information by downloading the data. - device an auxilliary device used to put info" into and get info" out of the Computer.

Issues / Threats

- easily hidden as they are small in size.
- loss and theft of devices.
- manipulation) destruction of data.
- Corrupting devices.

Prevention

- Buy these devices from authorized Vendors.
- Regular monitoring.

Scanned by CamScanner