

SAN SECURITY

The ability to identify the points of vulnerability and implement a reliable security solution is the key to securing a SAN fabric infrastructure.

Following are the main key area of security:

1. SAN management access : Secure access to management services.
2. Fabric access : Secure device access to fabric access.
3. Target access : Secure access to targets.
4. SAN protocol : Secure switch to switch communication protocol.
5. Data integrity and secrecy : Encryption of data at transit and at receiver

Threats to physical components of SAN:

1. WWN spoofing of hosts and storage devices.
2. Unauthorized devices attacking the fabric.
3. Unauthorized switches attacking the fabric.

Threats to logical components:

1. Unauthorized usage of SAN management access methods(Telnet, API etc)
2. Critical information theft.
3. Denial of service attacks
4. Replay attacks

SAN limitations :

1. SANs are very expensive as Fibre channel technology tends to be pricier and maintenance requires a higher degree of skill.

2. Leveraging of existing technology investments tends to be much difficult. Though SAN facilitates to make use of already existing legacy storage, lack of SAN-building skills has greatly diminished deployment of homegrown SANs. So currently pre-packaged SANs based on Fibre channel technology are being used among the enterprises.

3. Management of SAN systems has proved to be a real tough one due to various reasons. Also for some, having a SAN storage facility seems to be wasteful one.

4. Also, there are a few SAN product vendors due to its very high price and very few mega enterprises need SAN set up.

Related Posts:

1. Information Life Cycle Management (ILM)
2. Storage infrastructure
3. Integrated VS Modular Array
4. Data proliferation
5. Data categorization
6. Component architecture of intelligent disk subsystem
7. Intelligent disk subsystems overview
8. Mapping n operations
9. Storage system architecture
10. RAID
11. Hot spare
12. JBOD
13. Elements of DAS,NAS,CAS,SAS
14. Limitations of DAS
15. Cloud vocabulary

16. NAS security
17. Management of DAS,NAS,CAS,SAN
18. FC Connectivity
19. Memory virtualization
20. Data center concepts & requirements
21. Network virtualization
22. Server information storage and management
23. ISM Architectural Framework