



Vikas Khorana

Lead Network Engineer

A Functional approach to Storage Security

INTEROP[®]

BUSINESS. TECHNOLOGY.
ONE WEEK. ONE PLACE.

Agenda

- The Las Vegas Review-Journal in Las Vegas, Nevada is the corporate headquarters for the Stephens Media LLC
- Stephens Media LLC (11 Daily's , 23 Weekly, Books Division, Online and more...)
- The Challenge (Securing Storage components)
- Functional Approach

The Company Wide Challenge

- What to Secure ?
 - An effective Storage Security program has to secure users, clients, applications, data, data storage devices, servers and networks and make sure there aren't any holes in them.
(Weakest Link!!!)

Authentication

- Authorized personnel
 - Use of Different Methods
 - Secure Ids
 - Biometrics etc...
- Implemented with a challenge-response protocol
- Using **LDAP password integration** (like Active Directory for windows, Open Directory Master for MAC OSX)

Access

- Appropriate Level of information available
- Persistent Bindings
- Zoning
- Lun Masking
- Encryption hierarchy
- WORM File systems

Auditing

- Develop an Audit Plan
 - User Activity
 - Change Management
- False Positives (Normal vs. Anomalous behavior)

Alarms

- Reactions to Audits
- Trigger Set Points
- Intrusive Notifications
- Non Intrusive Notifications

Summary

- Functional approach to storage is a useful when so many kinds of entities are involved.
- Inventory the available tools(Access control and Auditing) from different storage vendors and applying them effectively
- User awareness a key in Storage Infrastructure security

Thank You!



INTEROP