

Secure Router Configuration



- Routers are the main gateway to the network and not designed to be security devices
- Routers are vulnerable to different attacks from inside and outside of the network
- An administrator needs to configure a router securely; a misconfigured router is a target for mounting attacks

Hardening a Router will enable the Admins to prevent attackers from:

- Gaining information about the network
- Disabling routers and the disrupting the network
- Reconfiguring routers
- Using routers to perform internal attacks
- Using routers to perform external attacks
- Rerouting network traffic



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Router Security Measures



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| 1 Implement written, approved, and distributed router policy | 8 Shutdown unnecessary interfaces |
| 2 Returned IOS version should be checked and up-to-date | 9 Identify and check the ports and protocols |
| 3 Configure users and passwords | 10 Implement ACL to limit traffic to the required ports and protocols |
| 4 Enable password encryption | 11 Implement ACL to block reserved and inappropriate addresses |
| 5 Implement access restriction on console | 12 Enable logging |
| 6 Disable unnecessary services | 13 Use NTP, to set the router's time of day accurately |
| 7 Properly configure necessary services such as DNS | 14 Logs checked, reviewed, and archived as per defined policy |

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Design, Implement, and Enforce Router Security Policy



Router Security Policy Should consist of:

- Password Policy
- Authentication Policy
- Remote Access Policy
- Filtering Policy
- Backup Policy
- Redundancy Policy
- Documentation Policy
- Physical Access Policy
- Monitoring Policy
- Update Policy



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LO#04: Explain Data Leakage Concepts

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