CSC 11

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CSC 11.0

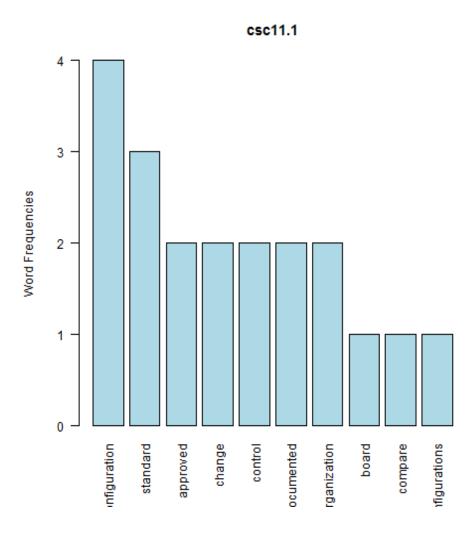
[1] "Critical Security Control #11: Secure Configurations for Network Devices" .

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[1] "configuration + standard"



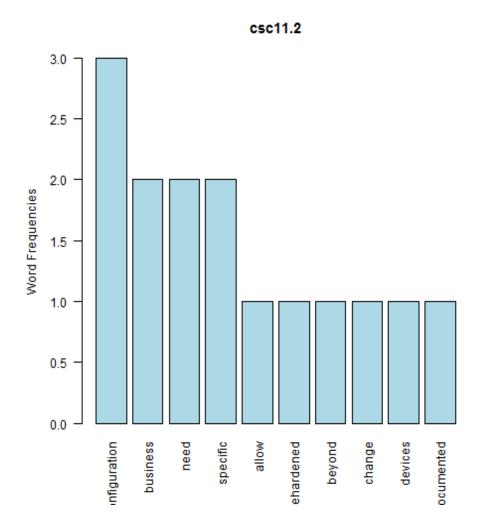
 ${\rm null\ device}\ 1$



null device 1 [1] "Compare firewall, router, and switch configuration against standard secure configurations defined for each type of network device in use in the organization. The security configuration of such devices should be documented, reviewed, and approved by an organization change control board. Any deviations from the standard configuration or updates to the standard configuration should be documented and approved in a change control system."

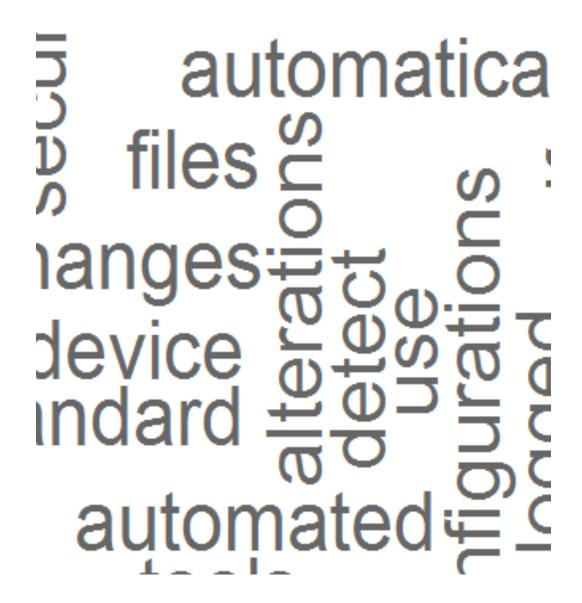
[1] "configuration + business"

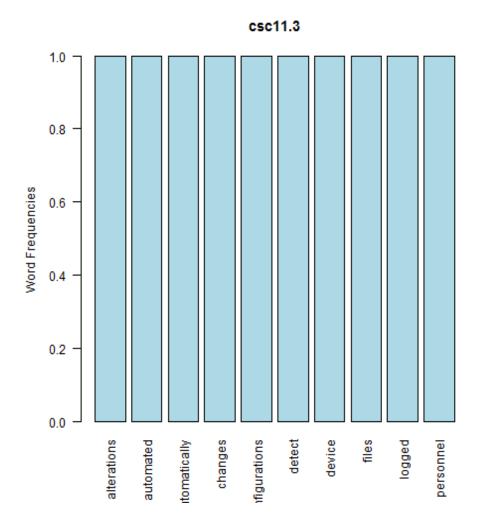




null device 1 [1] "All new configuration rules beyond a baseline-hardened configuration that allow traffic to flow through network security devices, such as firewalls and network-based IPS, should be documented and recorded in a configuration management system, with a specific business reason for each change, a specific individualâ s name responsible for that business need, and an expected duration of the need."

[1] "alterations + automated"

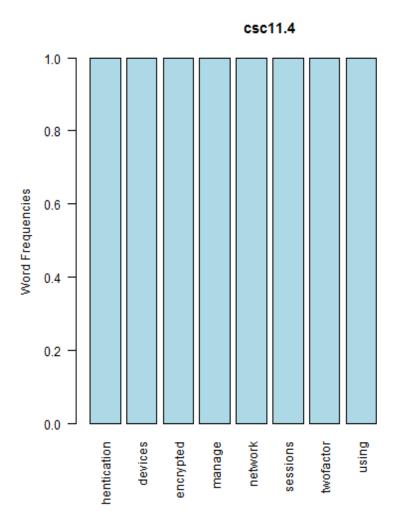




null device 1 [1] "Use automated tools to verify standard device configurations and detect changes. All alterations to such files should be logged and automatically reported to security personnel."

[1] "authentication + devices"

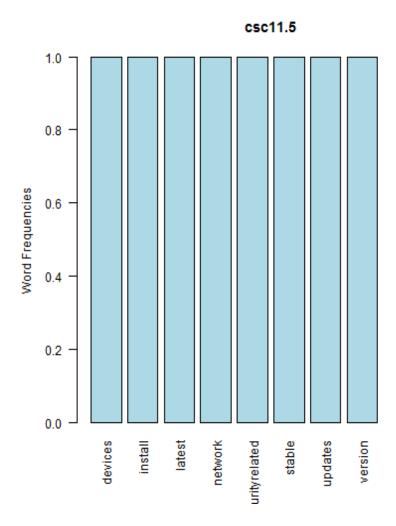
o manage devices authentication encrypted sessions twofactor



null device 1 [1] "Manage network devices using two-factor authentication and encrypted sessions."

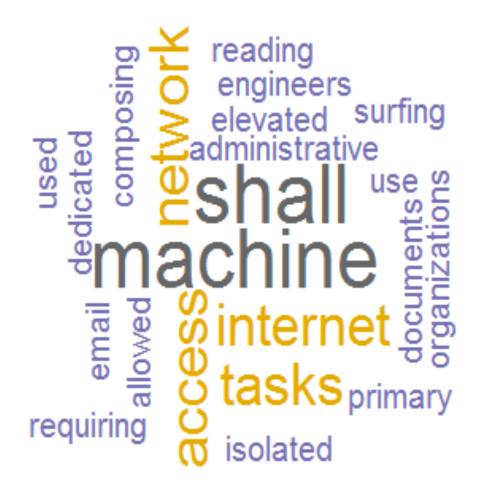
[1] "devices + install"

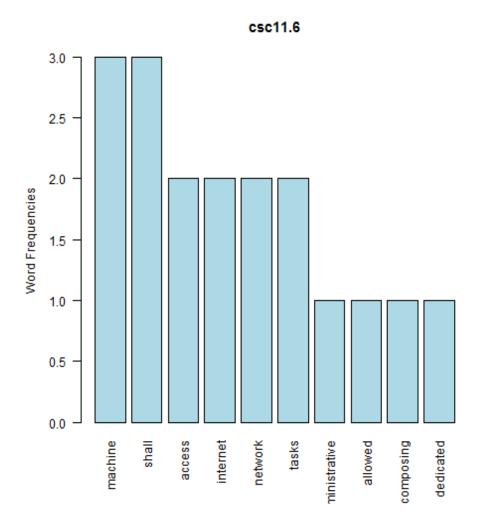
versions versions stables devicessa latest updates as updates



null device 1 [1] "Install the latest stable version of any security-related updates on all network devices."

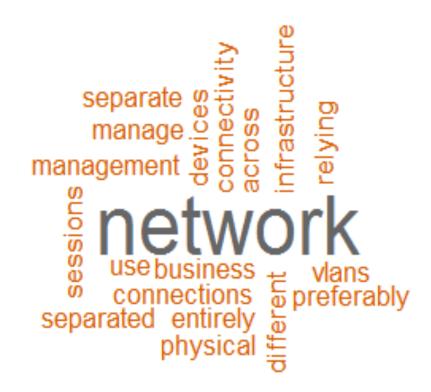
[1] "machine + shall"



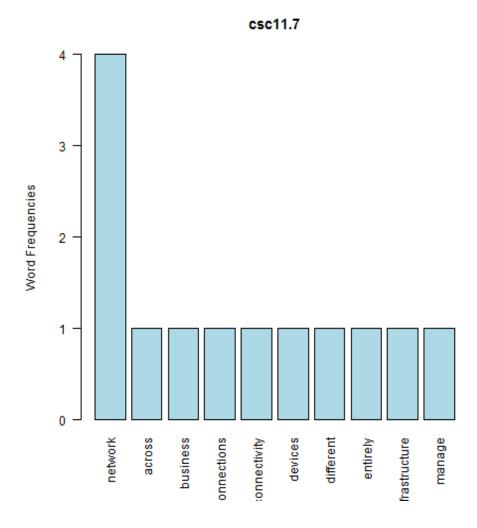


null device 1 [1] "Network engineers shall use a dedicated machine for all administrative tasks or tasks requiring elevated access. This machine shall be isolated from the organization's primary network and not be allowed Internet access. This machine shall not be used for reading e-mail, composing documents, or surfing the Internet."

[1] "network + across"



 ${\rm null\ device}\ 1$



null device 1 [1] "Manage the network infrastructure across network connections that are separated from the business use of that network, relying on separate VLANs or, preferably, on entirely different physical connectivity for management sessions for network devices."