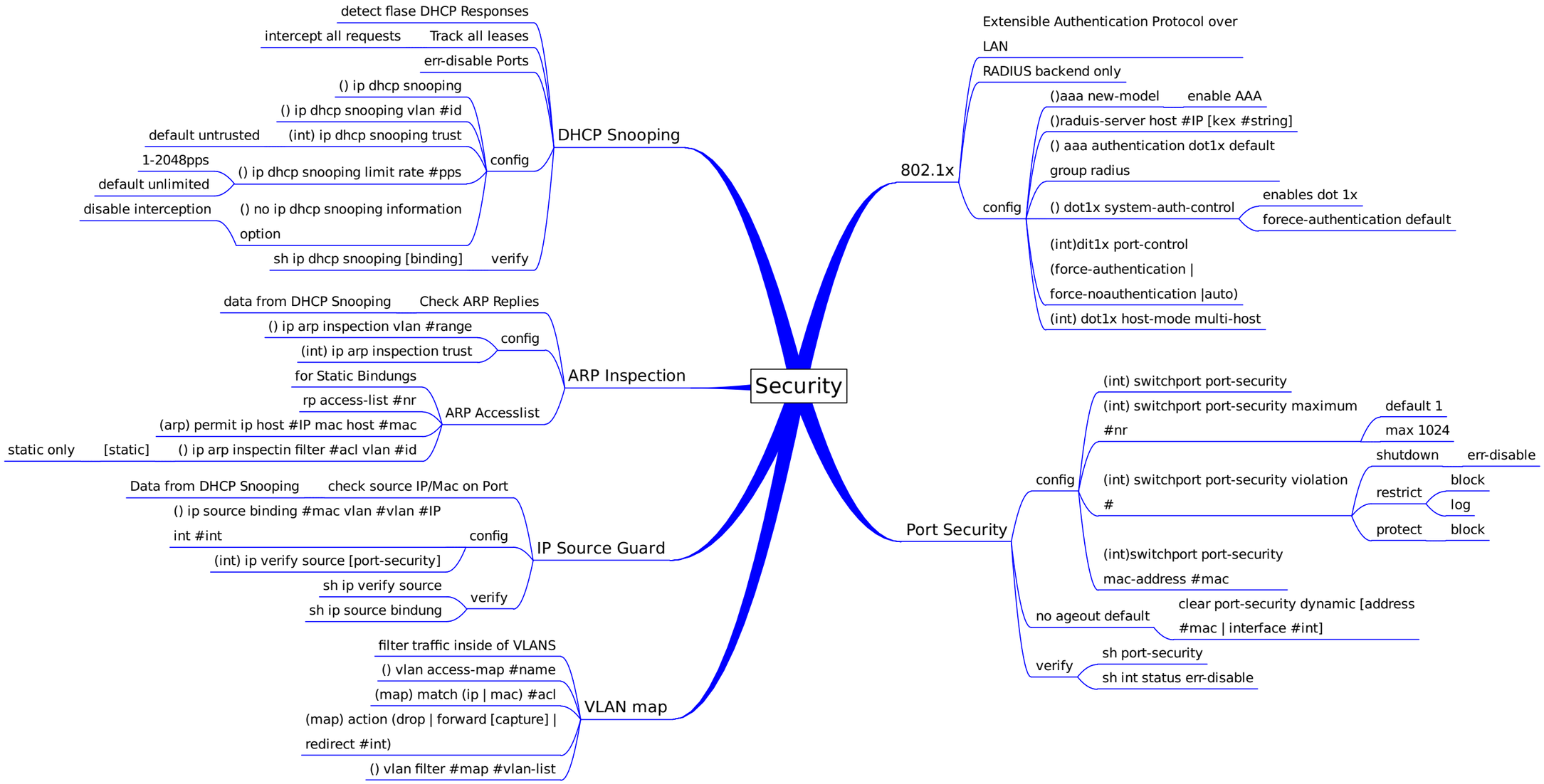
Security
DHCP Snooping
detect flase DHCP Responses
intercept all requests
Track all leases
err-disable Ports
config
() ip dhcp snooping
() ip dhcp snooping vlan #id
(int) ip dhcp snooping trust
default untrusted
() ip dhcp snooping limit rate #pps
1-2048pps
default unlimited
() no ip dhcp snooping information option
disable interception
verify
sh ip dhcp snooping [binding]
ARP Inspection
Check ARP Replies
data from DHCP Snooping
config
() ip arp inspection vlan #range
(int) ip arp inspection trust
ARP Accesslist
() ip arp inspectin filter #acl vlan #id
[static]
static only
(arp) permit ip host #IP mac host #mac
rp access-list #nr
for Static Bindungs
IP Source Guard
check source IP/Mac on Port
Data from DHCP Snooping
config
() ip source binding #mac vlan #vlan #IP int #int
(int) ip verify source [port-security]
verify
sh ip verify source
sh ip source bindung
VLAN map
filter traffic inside of VLANS
() vlan access-map #name
(map) match (ip | mac) #acl
(map) action (drop | forward [capture] | redirect #int)
() vlan filter #map #vlan-list
802.1x
Extensible Authentication Protocol over LAN
RADIUS backend only
config
()aaa new-model
enable AAA
()raduis-server host #IP [kex #string]
() aaa authentication dot1x default group radius
() dot1x system-auth-control
enables dot 1x
forece-authentication default
(int)dit1x port-control (force-authentication | force-noauthentication |auto)
(int) dot1x host-mode multi-host
Port Security
config
(int) switchport port-security
(int) switchport port-security maximum #nr
default 1
max 1024
(int) switchport port-security violation #
shutdown
err-disable
restrict
block
log
protect
block
(int)switchport port-security mac-address #mac
no ageout default
clear port-security dynamic [address #mac | interface #int]
verify
sh port-security
sh int status err-disable