**Feststellen der momentanen Root-Bridge: SW1**

Central>enable

Password:

Central#show spanning-tree

**Central als Root-Bridge bestimmen**

Central#config t

Enter configuration commands, one per line. End with CNTL/Z.

Central(config)#spanning-tree vlan 1 root primary

Central(config)#

**SW1 als Backup Rootbridge bestimmen**

SW-1>enable

Password:

SW-1#config t

Enter configuration commands, one per line. End with CNTL/Z.

SW-1(config)#spanning-tree vlan 1 root secondary

SW-1(config)#

**PortFast auf den Access-Ports aktivieren**

SW-A#config t

Enter configuration commands, one per line. End with CNTL/Z.

SW-A(config)#spanning-tree portfast default

SW-A# show spanning-tree summary

**BPDU Guard aktivieren**

SW-A(config)#interface range fa0/1-fa0/4

SW-A(config-if-range)#spanning-tree bpduguard enable

SW-A(config-if-range)#exit

**Root Guard auf den Nicht-Root-Ports der Switches 1 und 2 aktivieren**

SW-1#config t

Enter configuration commands, one per line. End with CNTL/Z.

SW-1(config)#interface range fa0/23-fa0/24

SW-1(config-if-range)#spanning-tree guard root

SW-1(config-if-range)#

**Storm-Control auf den Trunk-Ports von Central aktivieren**

Central#config t

Enter configuration commands, one per line. End with CNTL/Z.

Central(config)#interface fa0/1

Central(config-if)#storm-control broadcast level 50.0

Central(config-if)#interface range Gi0/1-Gi0/2

Central(config-if-range)#storm-control broadcast level 50.0

Central(config-if-range)#

SW-1#config t

Enter configuration commands, one per line. End with CNTL/Z.

SW-1(config)#interface range fa0/23-fa0/24

SW-1(config-if-range)#spanning-tree guard root

SW-1(config-if-range)#storm-control broadcast level 50.0

SW-1(config)#interface fa0/1

SW-1(config-if-range)#spanning-tree guard root

SW-1(config-if-range)#storm-control broadcast level 50.0

SW-1(config)#interface Gi0/1

SW-1(config-if-range)#spanning-tree guard root

SW-1(config-if-range)#storm-control broadcast level 50.0

SW-1(config-if-range)#

SW-2#config t

Enter configuration commands, one per line. End with CNTL/Z.

SW-2(config)#interface range fa0/23-fa0/24

SW-2(config-if-range)#spanning-tree guard root

SW-2(config-if-range)#storm-control broadcast level 50.0

SW-2(config)#interface fa0/1

SW-2(config-if-range)#spanning-tree guard root

SW-2(config-if-range)#storm-control broadcast level 50.0

SW-2(config)#interface Gi0/1

SW-2(config-if-range)#spanning-tree guard root

SW-2(config-if-range)#storm-control broadcast level 50.0

SW-2(config-if-range)#

SW-2#

%SYS-5-CONFIG\_I: Configured from console by console

SW-2#show storm-control broadcast

Interface Filter State Upper Lower Current

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Fa0/23 Link Up 50.00% 50.00% 0.00%

Fa0/24 Link Up 50.00% 50.00% 0.00%

**Port-Security auf den Access-Switches aktivieren**

SW-B>enable

Password:

SW-B#config t

Enter configuration commands, one per line. End with CNTL/Z.

SW-B(config)#interface range fa0/1-fa0/4

SW-B(config-if-range)#switchport mode access

SW-B(config-if-range)#switchport port-security

SW-B(config-if-range)#switchport port-security mac-address sticky

SW-B(config-if-range)#switchport port-security maximum 2

SW-B(config-if-range)#switchport port-security violation shutdown

SW-B(config-if-range)#

SW-B#show port-security interface fa0/1

Port Security : Enabled

Port Status : Secure-up

Violation Mode : Shutdown

Aging Time : 0 mins

Aging Type : Absolute

SecureStatic Address Aging : Disabled

Maximum MAC Addresses : 2

Total MAC Addresses : 0

Configured MAC Addresses : 0

Sticky MAC Addresses : 0

Last Source Address:Vlan : 0000.0000.0000:0

Security Violation Count : 0

**Unbenutzte Port deaktivieren: beispielhaft nur Port fa0/5 und fa0/6**

SW-B(config-if-range)#interface range fa0/5-fa0/6

SW-B(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/5, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to administratively down

SW-B(config-if-range)#