**-------------- Löschen --------------**

**#** erase startup-config

**#** delete flash:vlan.dat

**#** reload

**-------------- Allgemein --------------**

**#** terminal history size 200

**#** show history

**conf#** hostname SW-1

**conf#** banner motd #

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WARNING: Unauthorized access is   
 prohibited!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#

**conf#** banner login #

--Welcome to R2--

#

**conf#** ip default-gateway 172.17.99.1

**conf#** ip name-server 192.168.10.254

**conf#** ip domain-name ccna-lab.com

**conf#** no ip domain-lookup

**conf#** ip ftp password cisco

**conf#** ip ftp username cisco

**conf#** ip routing **(besonders bei L3-SW)**

**conf#** ipv6 unicast-routing

**confInt#** duplex full

**confInt#** speed 100

**confInt#** mdix auto

**-------------- Security --------------**

**conf#** service password-encryption

**conf#** security passwords min-length 5

**conf#** login block-for 120 attempts 3 within 30

**conf#** enable secret class

**conf#** username admin secret C1sco123!

**conf#** crypto key generate rsa

1024

**conf#** ip ssh version 2

**conf#** line console 0

**confLi#** exec-timeout 6 0

**confLi#** logging synchronous

**confLi#** password cisco

**confLi#** login

**confLi#** line vty 0 15

**confLi#** motd-banner

**confLi#** transport input none

**confLi#** transport input ssh

**confLi#** login local

**-------------- PortChanel ------------**

**conf#** inter rang g0/1-2

**confInt#** sh

**confInt#** channel-group 1 mode desirable

**confInt#** n shut

**conf#** inter port-channel 1

**confInt#** switchport mode trunk

**-------------- ROUTER --------------**

**conf#** ip dhcp excluded-address 192.168.0.1 192.168.0.10

**conf#** ip dhcp pool R1-LAN

**confDH#** network 192.0.0.0 255.255.0.0

**confDH#** default-router 192.168.0.1

**confDH#** dns-server 192.168.0.25

**conf#** interface g0/2

**confInt#** ip address dhcp

**confInt#** ip helper-address 10.1.1.2

**confInt#** standby version 2

**confInt#** standby 1 ip 192.168.1.254

**confInt#** standby 1 priority 150

**confInt#** standby 1 preempt

**conf#** interface g0/1

**confInt#** description Trunk to S1

**confInt#** no shut

**conf#** interface g0/1.99

**confInt#** description Gateway VLAN 99

**confInt#** encapsulation dot1Q 10

**confInt#**  ip address 10.1.99.1 255.255.255.0

**confInt#** no shutdown

**conf#** interface g0/1.100

**confInt#** description Gateway VLAN 100

**confInt#** encapsulation dot1Q 100 NATIV

**confInt#** no shutdown

**conf#** interface loopback 0

**confInt#** ip address 10.0.0.1 255.255.255.0

**conf#** ip route 192.0.0.10 255.0.0.0 g0/1

**conf#** ipv6 route 2001:db8::5::1/64 g0/1

**conf#** ipv6 router rip aktiv

**conf#** router rip

**confR#** version 2

**confR#** network 192.168.64.0

**confInt#** ipv6 rip aktiv enable

**-------------- SWITCH --------------**

**conf#** vlan 100

**conf#**  name Native

**conf#** vlan 999

**conf#** name BlackHole

**conf#** interface vlan 99

**confInt#** description Managment VLAN 99

**confInt#** ip address 10.1.99.2 255.255.255.0

**confInt#** no shut

**conf#** interface g1/1/1

**confInt#** description routed Port Link to R1

**confInt#** no switchport

**confInt#** ip address 192.0.0.2 255.255.0.0

**confInt#** ipv6 address 2001:db8::5::1/64

**confInt#** ipv6 address fe80::2:b link-local

**confInt#** no sh

**conf#** inter range f0/1-24, g0/1-2

**confInt#** description unused Port

**confInt#** switchport mode access

**confInt#** switchport access vlan 999

**confInt#** switchport nonegotiate

**confInt#** shut

**conf#** inter range g0/1-2

**confInt#** no switchport access vlan

**confInt#** switchport trunk encapsulation dot1q

**confInt#** switchport mode trunk

**confInt#** switchport nonegotiate

**confInt#** switchport trunk native vlan 100

**confInt#** switchport trunk allowed vlan 10,20,99,100

**confInt#** no shut

**conf#** interface fa0/4

**confInt#** description con. Voice/VLAN

**confInt#** switchport mode access

**confInt#** switchport access vlan 10

**confInt#** switchport voice vlan 40

**confInt#** switchport nonegotiate

**confInt#** mls qos trust cos

**conf#** spanning-tree vlan 100,999 priority 28672

**conf#** ip dhcp snooping

**conf#** ip dhcp snooping vlan 10,20,99

**conf#** ip arp inspection vlan 10,20,99

**conf#** ip arp inspection validate src-mac dst-mac ip

**conf#** inter range g0/1-2

**confInt#** ip dhcp snooping trust

**confInt#** ip arp inspection trust

**conf#** inter range fa0/1-24

**confInt#** switchport port-security

**confInt#** switchport port-security maximum 4

**confInt#** switchport port-security mac-address sticky

**confInt#** switchport port-security violation restrict

**confInt#** spanning-tree portfast

**confInt#** spanning-tree bpduguard enable

**confInt#** ip dhcp snooping limit rate 5

**confInt#** no cdp enable

**-------------- Speichern --------------**

**#** wr

**#** copy running-config tftp:

Ziel 192.168.65.2 und DatNamen

**-------------- BOOTEN --------------**

switch: set

switch: flash\_init

switch: dir flash:

switch: BOOT=flash:c2960-lanbasek9-mz.150-2.SE8.bin

switch: set

switch: boot