

Laborbericht - NVS - 5CHIF

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Ziel: Erfüllung der Aufgabenstellung

2.2 - Map a Network

Device	Interface	IP Address	Subnet Mask	Local Interface and Connected Neighbor
Edge1	G0/0	192.168.1.1	255.255.255.0	G0/1 - S1
Edge1	S0/0/0	209.165.200.5	255.255.255.252	S0/0/0 - ISP
Branch-Edge	S0/0/1	209.165.200.10	255.255.255.252	S0/0/1 - ISP
Branch-Edge	G0/0	192.168.3.249	255.255.255.248	G0/0 -

Vom Computer **Admin PC** wird eine SSH Verbindung mit **Edge1** (192.168.1.1) via SSH aufgebaut. Dazu wird der Befehl `ssh -l admin01 192.168.1.1` eingegeben.

```
C:\>ssh -l admin01 192.168.1.1
Open
Password:

Edge1#
```

```
Edge1#show ip interface brief
Interface      IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0  192.168.1.1    YES manual  up          up
GigabitEthernet0/1  unassigned      YES unset   administratively down down
Serial0/0/0        209.165.200.5  YES manual  up          up
Serial0/0/1        unassigned      YES unset   administratively down down
Vlan1            unassigned      YES unset   administratively down down
```

Von **Edge1** wird nun eine SSH Verbindung zu **Remote Branch Office** aufgebaut

```
ssh -l branchadmin 209.165.200.10
```

```
Edge1#ssh -l branchadmin 209.165.200.10
Open
Password:
Password:
Password:

Branch-Edge#
```

Von diesem Gerät können wir nun das Gerät und Subnet Mask von Interface S0/0/1 bestimmen. Und die Tabelle mit zusätzlichen Informationen füllen.

CDP Configuration

Um mehr über die Angeschlossenen Geräte des **Branch-Edge** Gerätes zu erfahren, wird CDP am Gerät aktiviert.

```
Branch-Edge#
Branch-Edge#show cdp
% CDP is not enabled
Branch-Edge#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Branch-Edge(config)#int s0/0/1
Branch-Edge(config-if)#no cdp enable
^
% Invalid input detected at '^' marker.

Branch-Edge(config-if)#no cdp enable
Branch-Edge(config-if)#exit
Branch-Edge(config)#cdp run
Branch-Edge(config)#exit
Branch-Edge#show cdp neighbours
^
% Invalid input detected at '^' marker.

Branch-Edge#show cdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
                  S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone
Device ID      Local Intrfce  Holdtme  Capability  Platform  Port ID
Branch-Edge#show cdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
                  S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone
Device ID      Local Intrfce  Holdtme  Capability  Platform  Port ID
Branch-Edge#vl
```

Es sind keine weitem CDP Geräte angeschlossen

2.3 - Configure and Verify NTP

R1 und **R2** werden als NTP Clients vom Server **N1** (209.165.200.225) konfiguriert.

```
ntp server 209.165.200.225
```

Danach wird mit dem `show clock` Befehl sichergestellt, das die Konfiguration erfolgreich war.

Router 1

```
Enter configuration commands, one per line
R1(config)#ntp server 209.165.200.225
R1(config)#do show clock
16:32:8.943 UTC Tue Dec 6 2016
R1(config)#
```

Router 2

```
Enter configuration commands, one per line
R2(config)#ntp server 209.165.200.225
R2(config)#show clock
^
% Invalid input detected at '^' marker.

R2(config)#do show clock
16:31:12.353 UTC Tue Dec 6 2016
R2(config)#
```

2.4 - Router to Recorder

Da das Enable Password nicht bekannt ist, muss der Router zurückgesetzt werden.

```
RouterToRecover>en
Password:
Password:
Password:
% Bad secrets

RouterToRecover>
```

1 Router ausschalten

Das Gerät wird ausgeschaltet.



2 System zurcksetzen

Um das Gerät zurückzusetzen, muss beim hochfahren es Geräts die Tastenkombination **Ctrl + Break** gedrückt werden. Dadurch wird die Konfiguration gelöscht.

```
Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.1(4)M5, RELEASE
SOFTWARE (fc2)Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 04:52 by pt_team
Image text-base: 0x2100F918, data-base: 0x24729040|
```

```
This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.
```

```
A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wvl/export/crypto/tool/stqrg.html
```

```
If you require further assistance please contact us by sending email to
export@cisco.com.
```

```
Cisco CISC02911/K9 (revision 1.0) with 491520K/32768K bytes of memory.
Processor board ID FTX152400KS
3 Gigabit Ethernet interfaces
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)
```

```
--- System Configuration Dialog ---
```

```
Continue with configuration dialog? [yes/no]: no
```

```
Press RETURN to get started!
```

