Grundkonfiguration Router – Switche

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Gerät** | **Schnittstelle** | **IPV4-Adresse** | **Subnetmask** |  | **Default-gateway** | **portsecurity maximum, macadress, violation** | **Spanning Tree** |
| Router R1-BKH | G0/1 | 172.16.0.1 | 255.255.255.252 |  |  |  |  |
|  |  |  |  |  |  |  |  |
| L3S-BKH | G0/1 | 172.16.0.2 | 255.255.255.252 | no switchport |  |  |  |
|  | G0/2 |  |  | trunk |  | 2, sticky, shutdown |  |
|  | F0/1 – f0/24 |  |  | trunk |  | 2, sticky, shutdown |  |
|  | VLAN99 | 192.168.99.1 | 255.255.255.0 | VLAN99 |  |  |  |
|  | VLAN10 | 192.168.10.1 | 255.255.255.0 | VLAN10 |  |  |  |
|  | VLAN20 | 192.168.20.1 | 255.255.255.0 | VLAN20 |  |  |  |
|  |  |  |  |  | 172.16.0.1 |  |  |
|  |  |  |  |  |  |  |  |
| L2S1-BKH | G0/2 |  |  | trunk |  | 2, sticky, shutdown |  |
|  | G0/1 |  |  | trunk |  | 2, sticky, shutdown |  |
|  | f0/1 |  |  | access VLAN10 |  | 2, sticky, shutdown | portfast, bpduguard |
|  | f0/2 |  |  | access VLAN20 |  | 2, sticky, shutdown | portfast, bpduguard |
|  | VLAN99 | 192.168.99.2 | 255.255.255.0 | VLAN99 |  |  |  |
|  | f0/3 –f0/24 |  |  | access |  | 2, sticky, shutdown | portfast, bpduguard |
|  |  |  |  |  | 192.168.99.1 |  |  |
|  |  |  |  |  |  |  |  |
| PC01 | fa0 | 192.168.10.10 | 255.255.255.0 |  | 192.168.10.1 |  |  |
| PC02 | fa0 | 192.168.20.10 | 255.255.255.0 |  | 192.168.20.1 |  |  |
|  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| Konfigurationsaufgabe | Router und Switche |
| domain-name | BK-Hilden |
| Verschlüsselung 2048 bit | rsa |
| username | admin |
| password | admin |

|  |  |  |  |
| --- | --- | --- | --- |
| Konfigurationsaufgabe | Router | Switch | Switch |
| Disable DNS-Lookup | x | x | x |
| Geräte Name | R1-BKH | L3S-BKH | L1S-BKH |
| priviledge passwort (enable) | class | class | class |
| console password | con | con | con |
| telnet password | vty | vty | vty |
| MOTD banner | ACCESS VERIFICATION | ACCESS VERIFICATION | ACCESS VERIFICATION |
| Login banner | USER PASSWORD | USER PASSWORD |  |

Auf dem Layer Layer 3 Switch L32S-BKH muss ip routing eingerichtet werden. Auf dem Router R1-BKH ist eine statische Route auf 192.168.0.0 255.255.0.0 über G0/1 einzurichten. Auf den Switchen sind nicht benutze Schnittstellen (Ports) auf shutdown zu stellen.