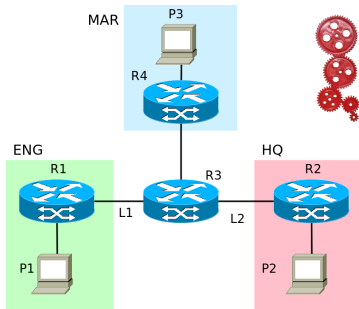


LAB4: IPSec VPN – homework

Homework



Our small company **RedGears Ltd.** described in LAB 1 has grown bigger and a new marketing (MAR) department has moved to a new location. Sales people need to communicate with engineering (ENG) department and headquarters (HQ) in a secure manner. Deploy new router R4 and secure internal communication.

Homework: setup

- ▶ use LAB 1 setup
- ▶ add a new line card NM-1FE-TX to R3 router (Configure → Slots)
- ▶ new line from the Internet (R3) to marketing department:

Line	Network
L3	192.168.0.12/30

Deadline: 28th of March, 2016

Your report must contain:

- ▶ configuration of all 4 routers: R1, R2, R3, R4 (show configuration)
 - ▶ copy&paste the output of

```
show running-config
```

- ▶ execute following commands on each router and include it in report:

```
show crypto isakmp sa detail
```

```
show crypto ipsec sa
```

```
show crypto ipsec profile
```

```
show crypto ipsec transform-set
```

- ▶ small packet captures (PCAP format) of at least 10 pings between P1 and P2, P1 and P3, P2 and P3

- ▶ Cisco IOS Security Configuration Guide, Release 12.4,
http://www.cisco.com/c/en/us/td/docs/ios/security/configuration/guide/12_4/sec_12_4_book.html