t-online

This is about connecting the Draytec Vigor 165 as simple Modem to a VDSL2 t-online connection in Germany

- setup
- DrayTec Vigor 165
- docker

setup

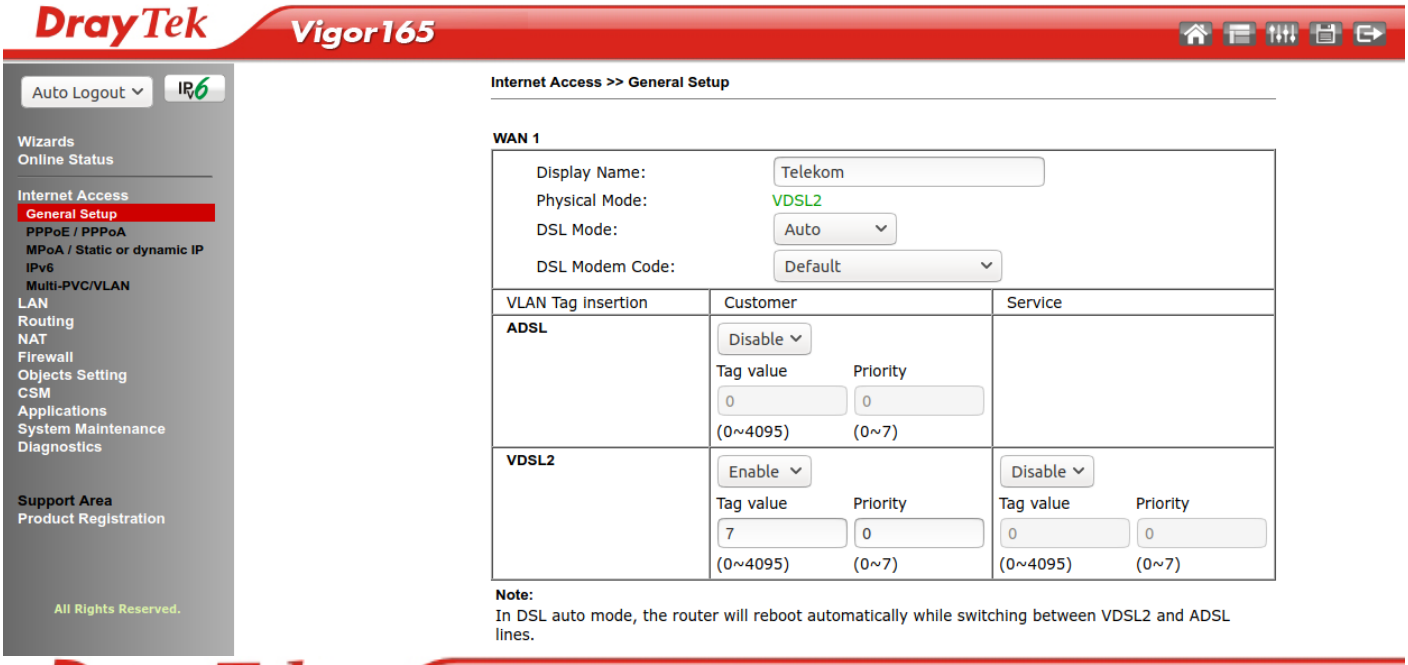
I am using the following hardware for this setup

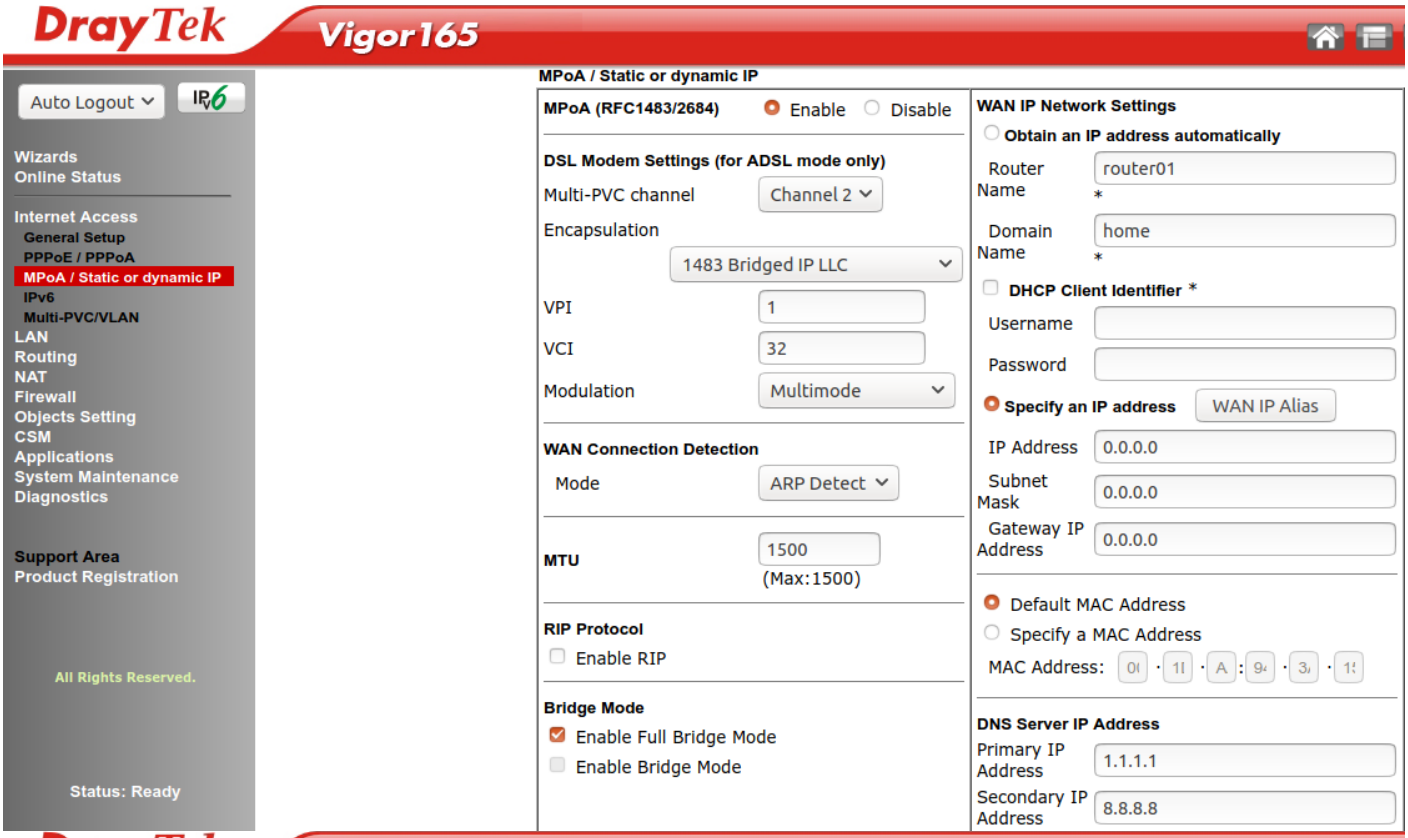
- 1 DrayTek Vigor 165 as VDSL2 Modem (250/40 Connection)
- 1 apu3c4 (black) as OPNsense router (VLAN WIFI LAN)
- 1 apu3c4 (red) as docker host (LAN) with a 1TB SATA SSD inside
- 1 Cisco SG 200-8

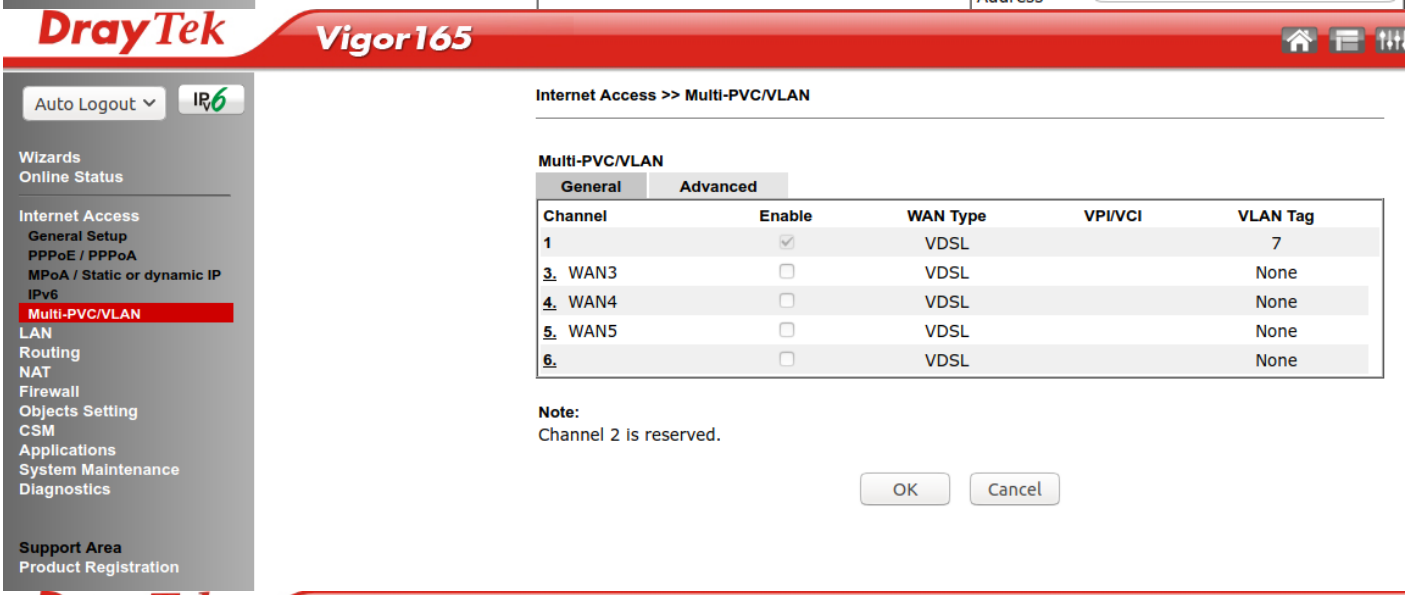
DrayTec Vigor 165

I did configure the DrayTec Vigor 165 as a Modem with t-online.

I use the following settings




DrayTek
Vigor165
Auto Logout
IPv6
Wizards
Online Status
Internet Access
General Setup
PPPoE / PPPoA
MPoA / Static or dynamic IP
IPv6
Multi-PVC/VLAN
LAN
Routing
NAT
Firewall
Objects Setting
CSM
Applications
System Maintenance
Diagnostics
Support Area
Product Registration
All Rights Reserved.
Status: Ready
MPoA / Static or dynamic IP
MPoA (RFC1483/2684) Enable Disable
DSL Modem Settings (for ADSL mode only)
Multi-PVC channel Channel 2
Encapsulation
1483 Bridged IP LLC
VPI 1
VCI 32
Modulation Multimode
WAN Connection Detection
Mode ARP Detect
MTU 1500 (Max:1500)
RIP Protocol
Enable RIP
Bridge Mode
Enable Full Bridge Mode
Enable Bridge Mode
WAN IP Network Settings
Obtain an IP address automatically
Router Name router01 *
Domain Name home *
DHCP Client Identifier *
Username
Password
Specify an IP address
WAN IP Alias
IP Address 0.0.0.0
Subnet Mask 0.0.0.0
Gateway IP Address 0.0.0.0
Default MAC Address
Specify a MAC Address
MAC Address:
DNS Server IP Address
Primary IP Address 1.1.1.1
Secondary IP Address 8.8.8.8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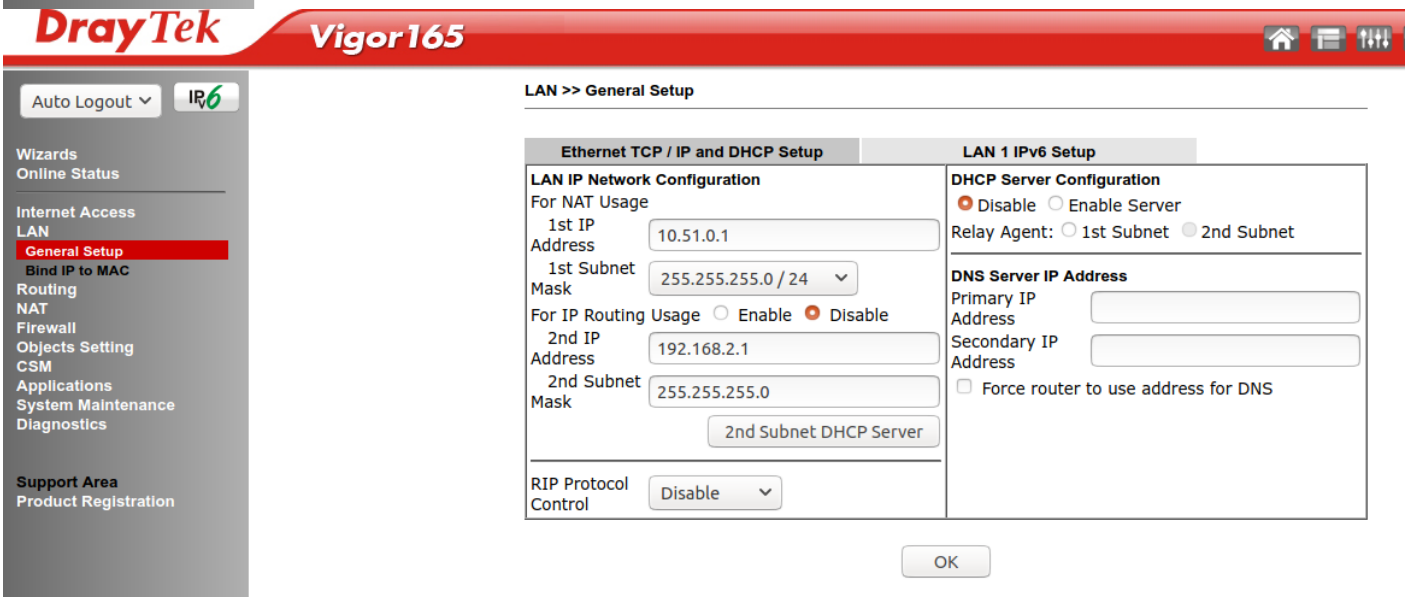
Support Area
Product Registration
Internet Access >> Multi-PVC/VLAN
Multi-PVC/VLAN
General
Advanced
Channel | Enable | WAN Type | VPI/VCI | VLAN Tag
1 | VDSL | 7
3. WAN3 | VDSL | None
4. WAN4 | VDSL | None
5. WAN5 | VDSL | None
6. | VDSL | None
Note:
Channel 2 is reserved.
OK
Cancel


DrayTek
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Auto Logout
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Internet Access
LAN
General Setup
Bind IP to MAC
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Firewall
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Applications
System Maintenance
Diagnostics
Support Area
Product Registration
LAN >> General Setup
Ethernet TCP / IP and DHCP Setup
LAN 1 IPv6 Setup
LAN IP Network Configuration
For NAT Usage
1st IP Address 10.51.0.1
1st Subnet Mask 255.255.255.0 / 24
For IP Routing Usage Enable Disable
2nd IP Address 192.168.2.1
2nd Subnet Mask 255.255.255.0
2nd Subnet DHCP Server
RIP Protocol Control Disable
DHCP Server Configuration
Disable Enable Server
Relay Agent: 1st Subnet 2nd Subnet
DNS Server IP Address
Primary IP Address
Secondary IP Address
Force router to use address for DNS
OK

docker

To be able to reach the DrayTec Vigor 165 admin page from other vlans I added a route to traefik.

This is my `/etc/environment` file

```
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games
"
PUID=1001
PGID=1001
TZ="Europe/Zurich"
DOMAINNAME="apu07.home"
DNS=10.51.0.254
```

This is my `docker-compose.yml` file

```
version: '3.7'

services:
  traefik:
    container_name: traefik
    domainname: ${DOMAINNAME}
    image: traefik
    restart: unless-stopped
    command:
      - --api.insecure=true
      - --providers.docker
      - --providers.docker.exposedbydefault=false
      - --entrypoints.web.address=:80
      - --providers.file.directory=/rules
      - --providers.file.watch=true
      #- --providers.docker.defaultRule="Host(`${DOMAINNAME}`)"
    ports:
      - "80:80"
      - "443:443"
      - "8080:8080"
    volumes:
      - /var/run/docker.sock:/var/run/docker.sock
```

```
      - ./traefik/rules:/rules
    networks:
      - default
      - discovery
    dns:
      - ${DNS}

networks:
  discovery:
```

And I have traefik rules in a `traefik/rules/vigor.toml` file for the DrayTec Vigor 165

```
[http.routers]
  [http.routers.vigor-rtr]
      entryPoints = ["web"]
      rule = "Host(`vigor.apu07.home`)"
      service = "vigor-svc"

[http.services]
  [http.services.vigor-svc]
    [http.services.vigor-svc.loadBalancer]
      passHostHeader = true
      [[http.services.vigor-svc.loadBalancer.servers]]
        url = "http://10.51.0.1:80"
```