

User Guide - OWL VLANs

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User Guide - OWL VLANs

This guide shows how to add VLAN functionality to OWL devices via simple startup-scripts.

Add Startup Script

Add the following three lines to the startup script:

```
ip link add link eth1 name eth1.10 type vlan id 10
ip addr add dev eth1.10 192.168.10.8/24 brd 192.168.10.255
ip link set dev eth1.10 up
```

Explanation:

```
ip link add link eth1 name eth1.10 type vlan id 10
```

- **ip link add** - command to add a new link
- **link eth1** adds the VLAN to the **Secondary Ethernet Interface**
- **name eth1.10** gives a name to this vlan interface which is used in the following commands, but convention is **<linked ethernet>.<vlan id>**
- **type vlan id 10** creates a VLAN with ID 10

```
ip addr add dev eth1.10 192.168.10.8/24 brd 192.168.10.255
```

- **ip addr add** - command to add an IP address to an interface
- **dev eth1.10** - add the IP address to the interface named **eth1.10** (freely chosen with the **link add** command before)
- **192.168.10.8/24**
 - assigns the management IP address 192.168.10.8 on this VLAN
 - tells the system that the subnet network mask is **/24** (equivalent to 255.255.255.0)
- **brd 192.168.10.255** - optional - tells the system the broadcast IP address of this subnet

```
ip link set dev eth1.10 up
```

- Enables the interface named eth1.10

| | |
|--|--|
| Status General Mobile WAN WiFi Network DHCP IPsec DynDNS System Log | Startup Script Startup Script #!/bin/sh # # This script will be executed *after* all the other <u>init</u> scripts. # You can put your own initialization stuff in here. <code>ip link add link eth1 name eth1.10 type <u>vlan</u> id 10 ip <u>addr</u> add dev eth1.10 192.168.10.8/24 <u>brd</u> 192.168.10.255 ip link set dev eth1.10 up</code> |
| Configuration LAN VRRP Mobile WAN PPPoE WiFi Backup Routes Static Routes Firewall NAT OpenVPN IPsec GRE L2TP PPTP Services Expansion Port 1 Expansion Port 2 Scripts • Startup • Up/Down IPv4 • Up/Down IPv6 Automatic Update | Apply |

Reboot or Power Cycle the Device

| | |
|---|--|
| Administration Users Change Profile Change Password Set Real Time Clock Set SMS Service Center Unlock SIM Card Unblock SIM Card Send SMS Backup Configuration Restore Configuration Update Firmware Technical Support Reboot Logout | Reboot The reboot process will take about 30 seconds to complete. Reboot |
|---|--|

Verify

| Status | Network Status |
|-------------------------------|--|
| General | Interfaces |
| Mobile WAN | |
| WiFi | |
| Network 1 | eth0 Link encap:Ethernet HWaddr 00:0A:14:89:CE:16 inet addr:192.168.1.1 Bcast:192.168.1.255 Mask:255.255.255.0 UP BROADCAST MULTICAST MTU:1500 Metric:1 RX packets:0 errors:0 dropped:0 overruns:0 frame:0 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:0 (0.0 B) TX bytes:0 (0.0 B) Interrupt:49 |
| DHCP | |
| IPsec | |
| DynDNS | |
| System Log | |
| Configuration | |
| LAN | eth1 Link encap:Ethernet HWaddr 00:0A:14:89:CE:17 inet addr:192.168.178.11 Bcast:192.168.178.255 Mask:255.255.255.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:5482 errors:0 dropped:2626 overruns:0 frame:0 TX packets:631 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:405419 (395.9 KB) TX bytes:302275 (295.1 KB) |
| VRRP | eth1.10 Link encap:Ethernet HWaddr 00:0A:14:89:CE:17 inet addr:192.168.10.8 Bcast:192.168.10.255 Mask:255.255.255.0 inet6 addr: fe80::20a:14ff:fe89:ce17/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:178 errors:0 dropped:0 overruns:0 frame:0 TX packets:145 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:22728 (22.1 KB) TX bytes:52455 (51.2 KB) |
| Mobile WAN | |
| PPPoE | |
| WiFi | |
| Backup Routes | |
| Static Routes | |
| Firewall | |
| NAT | |
| OpenVPN | |
| IPsec | |
| GRE | |
| L2TP | |
| QoS | |