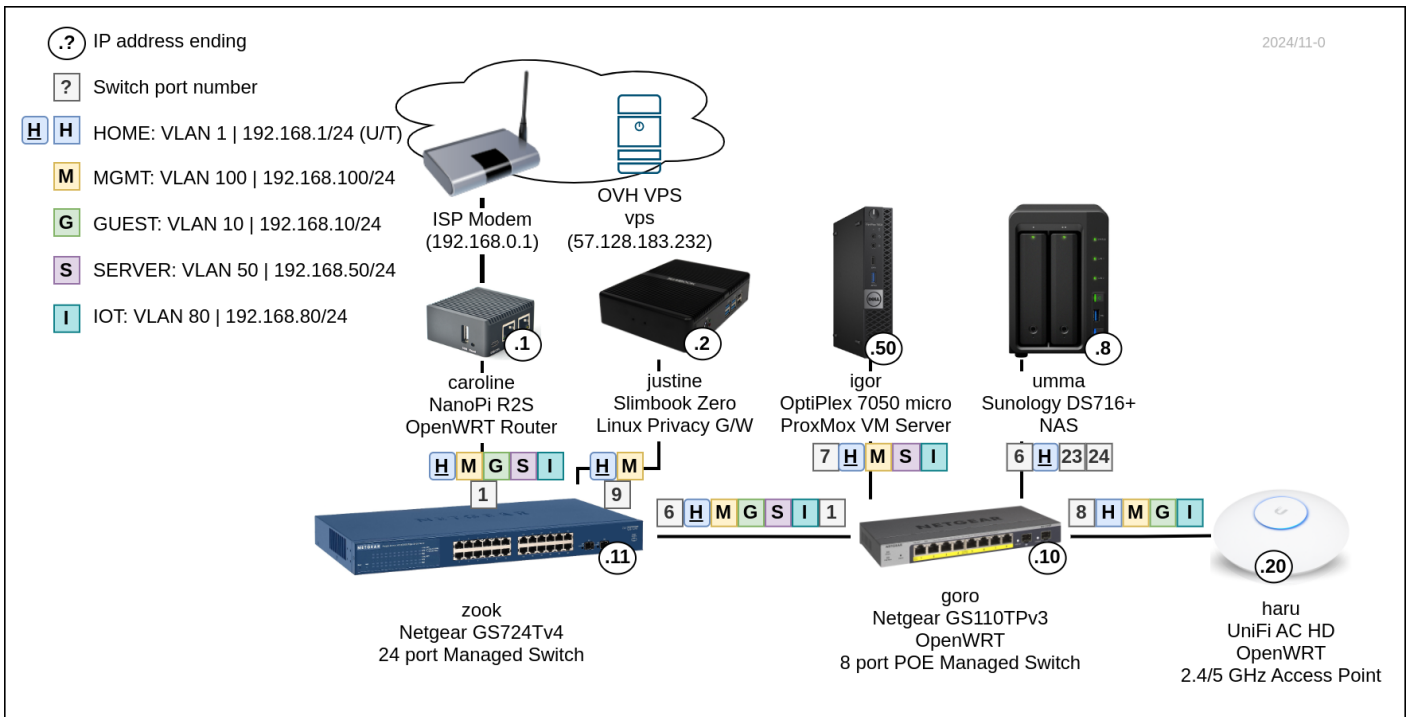
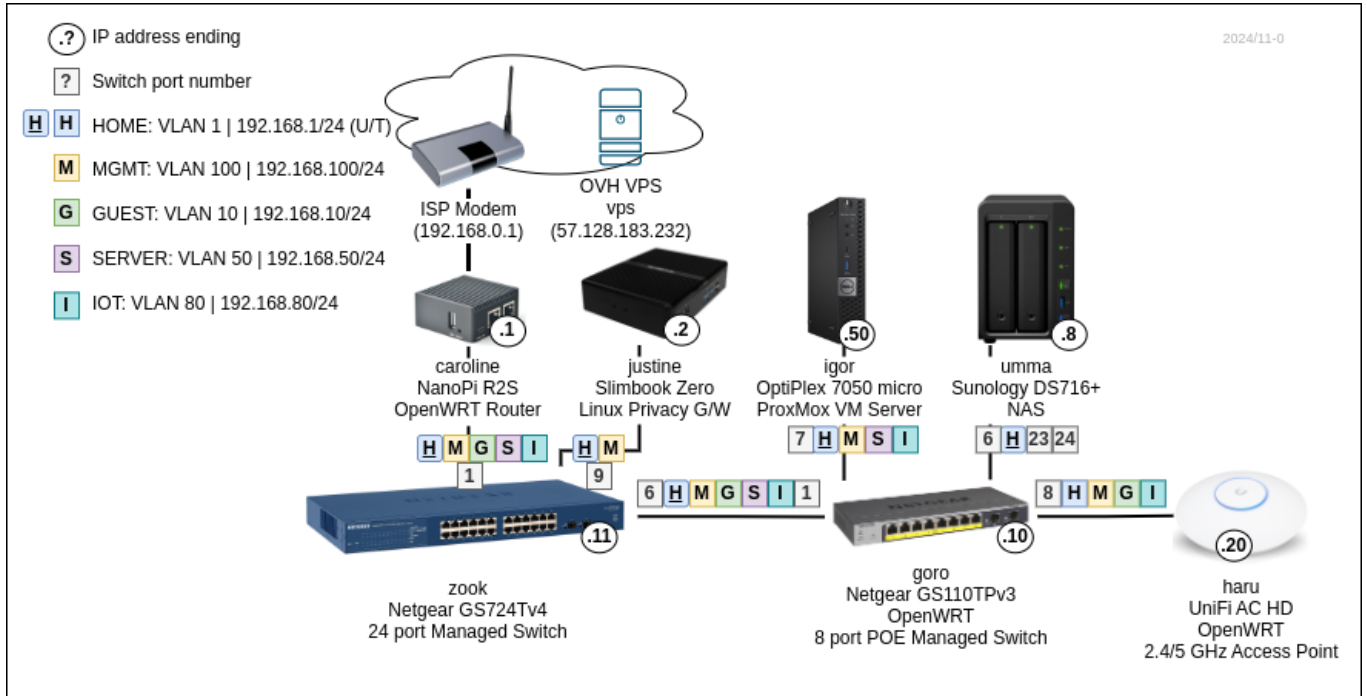


Networks & Switching

Editable diagram



VLANs

Name	Tag	Network	Description	Gateways
HOME	1	192.168.1.0/24	Internal home network	caroline: 192.168.1.1 justine: 192.168.1.2 (DHCP default)
GUEST	10	192.168.10.0/24	Isolated network	caroline: 192.168.10.1 (DHCP default)
SERVER	50	192.168.50.0/24	Internet exposed servers	caroline: 192.168.50.1 (DHCP default)
IOT	80	192.168.80.0/24	IoT devices	carolone: 192.168.100.1 (DHCP default)
MGMT	100	192.168.100.0/24	Management network	carolone: 192.168.100.1 justine: 192.168.100.2 (DHCP default)

Connectivity

Caroline does VLAN routing.

Name	Internet access G/W	DNS	WiFi SSID	Access to
HOME	Justine (VPN), Caroline	Justine (PiHole), Caroline	Haru, Haru Legacy (2.4GHz)	SERVER, IOT
GUEST	Caroline	Caroline	Toudi, Toudi Legacy (2.4GHz)	
SERVER	Caroline	Caroline		
IOT	Caroline	Caroline	Haru IoT (2.4GHz)	
MGMT	Justine (VPN), Caroline	Justine (PiHole), Caroline	Haru MGMT (2.4GHz)	SERVER

Subnets

Base range	Subnet 1 / Usage	Subnet 2 / Usage	Subnet 3 / Usage

10.0.0.0/8	<i>reserved for work VPNs</i>		
172.16.0.0/12 (to 172.31.)			
	172.17.1.1/24	Justine VPN: vpn	
	172.17.2.1/24	Justine VPN: output	
	172.17.100.1/24	VPS VPN: vps	
	172.18.0.0/16	Justine Docker	
	172.19.0.0/16	Igor Kubenretes	
	172.20.0.0/24	Igor Sandbox VMs	
192.168.0.0/16			
	192.168.1.0/24	HOME VLAN	
	192.168.10.0/24	GUEST VLAN	
	192.168.50.0/24	SERVER VLAN	
	192.168.80.0/24	IOT VLAN	
	192.168.100.0/24	MGMT VLAN	

Adding networks

Caroline

- *Network -> Interfaces -> Devices*
 - Add VLAN (802.1q) on eth1 for new VLAN tag
- *Network -> Interfaces*
 - Add interface for the new device
 - Configure DHCP server on the new interface with options for default G/W and DNS server
 - 3, 192.168.80.1
 - 6, 192.168.80.1
- *Network -> Firewall -> Zones*
 - Add zone for the new interface

- Network -> Firewall -> Traffic rules
 - Add rule for DHCP (UDP 67)
 - Add rule for DNS (UDP+TCP 53)
 - Add rule for ICMP
- Network -> DHCP and DNS -> Devices & Ports
 - Add new interface to DHCP server *Listen interfaces*

Switch configuration

OpenWRT edit VLAN tag assignment

Network -> Interfaces -> Devices -> switch (Bridge device) -> Configure... -> Bridge VLAN filtering

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