# **Bulock Home Technical Systems**

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# **Internet Service Provider**

**Service Provider:** Wide Open West (WOW!)

**Contact:** 1-866-496-9669 **Account Number:** 14364727 **Service:** 110M down / 10M up

Modem: ARRIS SURFboard SB6183
Modem HFC MAC: 78:96:84:e8:28:ee

Modem Web Interface: http://192.168.100.1

### Network

**Router:** Ubiquiti EdgeRouter X SFP **Router Web Interface:** https://router/

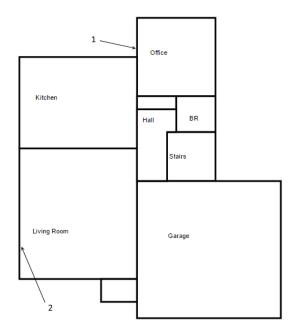
**Primary Switch:** UniFi Switch 24

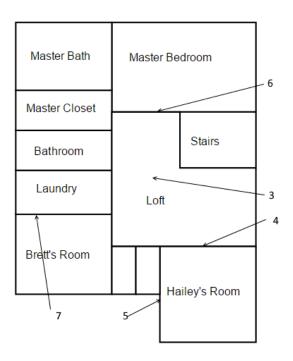
UniFi Cloud Controller: https://unifi:8443/

# **Ethernet Layout**

### **Patch Panel**

- 1. Office
- 2. Living Room
- 3. Loft WAP
- 4. Loft
- 5. Hailey's Room
- 6. Master Bedroom
- 7. Brett's Room
- 8. Basement WAP
- 9. Living Room
- 10. Unused
- 11. Unused
- 12. Unused
- 13. Unused
- 14. Unused
- 15. Unused
- 16. Unused





# **Wireless Network**

**SSID:** BulockWireless

**Guest SSID:** BulockGuestServices

### Controller

**Hardware:** Ubiquiti UniFi Cloud Key **Controller MAC:** f0:9f:c2:18:5d:e0

Controller IP: 10.0.0.3

Controller Web Interface: https://unifi:8443

Controller Username: admin

### **Access Points**

Loft

Hardware: UniFi AP-AC-Lite

AP MAC: 44:d9:e7:f6:c8:34

**AP IP:** 10.0.10.2

**Basement** 

Hardware: UniFi AP-AC-Lite

AP MAC: 80:2a:a8:13:15:51

**AP IP:** 10.0.10.0

# **Network Services**

### **DNS**

**Device:** Ubiquiti EdgeRouter X SFP

**IP Address:** 10.0.0.1

### **DHCP**

**Device:** Ubiquiti EdgeRouter X SFP

**IP Address:** 10.0.0.1

# **Reverse Proxy**

**Device:** Raspberry Pi 2 App Server

**IP Address:** 10.0.0.20

**Platform:** Nginx

### Plex Media Server

**Device:** QNAP TS-453A NAS

**IP Address:** 10.0.0.25

# Databases / Data

### MariaDB

**Device:** QNAP TS-453A NAS

**IP Address:** 10.0.0.25

# InfluxDB

**Device :** Raspberry Pi 2 App Server

**IP Address:** 10.0.0.20

# Grafana

**Device:** Raspberry Pi 2 App Server

**IP Address:** 10.0.0.20

Web Interface: https://data.bulock.house

# **Backups**

**Server:** nas.bulock **IP Address:** 10.0.0.25

File Path: /share/ServerBackups/

# **Current Backups**

**Home Assistant** 

Server: ha.bulock

File Path on NAS: /share/ServerBackups/ha/.homeassistant

Nginx

**Server:** app.bulock

File Path on NAS: /share/ServerBackups/app/nginx/

**Nagios** 

Server: nagios.bulock

File Path on NAS: /share/ServerBackups/nagios/

# **App Server**

Server: app.bulock

IP Address: 10.0.0.20

# **Running Applications**

- · Nginx (Reverse web proxy server)
- Grafana (Time based data graphing server)
- InfluxDb (Time based database)
- Mosquitto (MQTT server)
- Jackett (Torrent search proxy)

# **Network Devices**

Device	Wireless MAC	Ethernet MAC	Hostname	IP Address
OnePlus 6T	64:a2:f9:bf:c9:7f		phone.cameron	10.0.1.10
Desktop		18:31:bf:4e:dd:af	desktop.cameron	10.0.1.11
Chromebook	D0:E7:82:BA:E4:89		chromebook.cameron	10.0.1.12
MacBook	a0:99:9b:13:28:0d		macbook.cameron	10.0.1.13
Watch	24:00:ba:af:0a:26		watch.cameron	10.0.1.14
Nintendo Switch	64:b5:c6:17:97:c3		nswitch.cameron	10.0.1.15
Phone (Note 8)	b8:d7:af:0e:b1:77		phone.rachael	10.0.1.20
Laptop	74:E5:OB:OA:91:DC		laptop.rachael	10.0.1.21
iPad	1C:AB:A7:91:53:20		ipad.rachael	10.0.1.22
iPod Touch	C0:63:94:9E:75:74		ipod.rachael	10.0.1.23
Kindle	f0:4f:7c:d3:c3:b6		kindle.rachael	10.0.1.24
Work Laptop	c4:d9:87:85:1c:40		work.rachael	10.0.1.25
iPhone	6c:e8:5c:70:75:c0		phone.hailey	10.0.1.30
Desktop	90:48:9A:AB:ED:AB		desktop.hailey	10.0.1.31
XBox	001101011111111111111111111111111111111		xbox.hailey	10.0.1.32
Kindle			kindle.hailey	10.0.1.33
OnePlus 6T	64:a2:f9:bf:cd:cc		phone.brett	10.0.1.40
Desktop	01.42.10.01.04.00	40:8d:5c:74:a0:f1	desktop.brett	10.40.0.2
XBox		10.04.00.71.40.11	xbox.brett	10.0.1.42
Raspberry Pi			pi.brett	10.0.1.43
Laptop	F4:B7:E2:8E:11:93	44:87:FC:40:A0:86	laptop.brett	10.0.1.44
PSVita	F4.D1.E2.OE.11.93	44.07.FG.40.AU.00	psvita.brett	10.0.1.45
Kindle			kindle.brett	
Nintendo Switch	04.00.10.70.40.71		nswitch.brett	10.0.1.46
	04:03:d6:79:f9:7d			10.0.1.47
3DS	4 0 1 01 10 5 6	4 4 66 40 0 40	3ds.brett	10.0.1.48
Living Room	a4:8d:3b:b3:a5:ef	c4:1c:ff:18:a2:13	living.chromecast	10.0.2.10
Master Bedroom	6C:AD:F8:35:EA:2B	00:e0:4c:36:b1:44	master.chromecast	10.0.2.11
Loft	A4:77:33:3B:49:1C	00:e0:4c:36:b1:39	loft.chromecast	10.0.2.12
Basement	6C:AD:F8:95:CF:34		basement.chromecast	10.0.2.13
Hailey's Room	f4:f5:d8:6a:35:e6		hailey.chromecast	10.0.2.14
Living Room	a4:8d:3b:bd:1c:c3	c4:1c:ff:00:c2:aa	living.audio.chromecast	10.0.2.20
Hot Tub	A4:77:33:F6:95:EC	00:e0:4c:36:a0:c1	hottub.audio.chromecast	10.0.2.21
Pergola		e8:c7:4f:05:22:f5	pergola.audio.chromecast	10.0.2.22
Wii U	40:F4:07:A7:40:D3		wiiu 	10.0.2.50
Wii			wii	10.0.2.51
PS3			ps3	10.0.2.52
RetroPie		b8:27:eb:6b:15:2d	retropie	10.0.2.53
PS4	OC:FE:45:OF:OD:E4		ps4	10.0.2.54
RetroArch		4c:ed:fb:68:31:e6	retroarch	10.0.2.55
TV (Loft)	00:6B:9E:F6:56:5E	00:6B:9E:FA:49:3C	loft.tv	10.0.2.60
TV Remote (Living Room)	c4:1c:ff:03:45:57		remote.living.tv	10.0.2.61
Roku Ultra	c8:3a:6b:56:a0:03		roku	10.0.2.90
Osram Gateway	84:18:26:7d:72:f9		osram	10.50.0.12
Lutron Bridge	60:64:05:53:0d:d3		lutron	10.50.0.13
Xiaomi Gateway	78:11:dc:64:f5:87		xiaomi	10.50.0.14
ecobee Thermostat	18:B4:30:2B:1B:65		thermostat	10.0.3.10
Garage Door	5c:cf:7f:59:f2:0d		garagedoor	10.50.0.51
Doorbell	64:16:66:6d:ab:b3		doorbell	10.0.3.13
Master Bedroom Remote	34:ea:34:40:7b:39		master.remote	10.50.0.80
Brett's Bedroom Remote			brett.remote	10.50.0.81
Christmas Tree Light	ec:fa:bc:14:e9:8c		christmastree.light	10.50.1.40
Roomba	f0:03:8c:b6:0b:89		roomba	10.0.3.14
Hailey's Room Echo Dot	68:54:fd:75:f5:28		hailey.echo	10.0.3.32
Brett's Room Echo Dot	34:d2:70:e3:43:f5		brett.echo	10.0.3.33
Downstairs Google Home	d8:6c:63:47:95:62		downstairs.gh	10.0.3.40
Master Bedroom Google Home	20:df:b9:d4:de:f5		master.gh	10.0.3.41
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Device	Wireless MAC	Ethernet MAC	Hostname	IP Address
Hailey's Room Google Home	20:df:b9:0a:25:c8		hailey.gh	10.0.3.42
Brett's Room Google Home	20:df:b9:77:7f:2f		brett.gh	10.0.3.43
Kid's Bathroom Google Home	20:df:b9:64:32:f6		kids.bathroom.gh	10.0.3.44
Master Bathroom Google Home	30:fd:38:a1:6c:f7		master.bathroom.gh	10.0.3.45
Kitchen Google Home Hub	d8:6c:63:47:95:62		kitchen.ghh	10.0.3.50
Router		44:D9:E7:07:A3:52	router	10.0.0.1
Cloud Key		f0:9f:c2:18:5d:e0	unifi	10.0.0.3
Basement WAP		80:2a:a8:13:15:51	basement.wap	10.0.0.10
Loft WAP		44:d9:e7:f6:c8:34	loft.wap	10.0.0.12
Backyard WAP		78:8a:20:b3:74:1c	backyard.wap	10.0.0.13
Modem		D4:04:CD:7E:9C:D6	modem	192.168.100.1
Primary Switch		f0:9f:c2:68:31:14	primary.switch	10.0.0.31
Media Cabinet Switch		f0:9f:c2:cf:03:a3	mc.switch	10.0.0.32
Basement PoE Switch		78:8a:20:46:9b:3f	poe.switch	10.0.0.33
Cameron Laundry	34:d2:70:2d:b2:d9			10.0.3.121
Rachael Laundry	fc:a6:67:7f:5d:5a			10.0.3.122
Hailey Laundry	fc:a6:67:f1:7a:cc			10.0.3.123
Brett Laundry	ac:63:be:b4:cd:be			10.0.3.124
Pasta Part Reminder	fc:a6:67:17:a5:92			10.0.3.125
NAS		24:5e:be:00:2a:82	nas	10.0.0.25
NAS2		24:5e:be:12:8b:35	nas2	10.0.0.26
Office Printer		64:eb:8c:84:63:04	printer	10.0.0.100
Select Mini 3D Printer		b8:27:eb:1d:9a:8c	select-mini.3dprinter	10.0.0.101
Mini Delta 3D Printer	b8:27:eb:d4:41:f1		mini-delta.3dprinter	10.0.0.102
Lenovo Laptop	7c:e9:d3:17:51:3b		laptop	10.0.0.92
Laundry Tablet	10:bf:48:ea:8d:95		laundry.tablet	10.0.0.91
HA Dev Server	40:a5:ef:0c:a1:25		hadev	10.0.0.90
NUC	94:c6:91:19:3e:09		nuc	10.0.0.50
Basement Docker (etho)	68:94:23:5C:B1:EB	96:24:a1:9e:e3:f8	basement.docker	10.0.0.51
App Server		B8:27:EB:A1:94:A5	арр	10.0.0.20
Nagios		b8:27:eb:b2:5b:f7	nagios	10.200.0.10
Living Room Pi		b8:27:eb:e0:60:e4	livingroom-pi	10.0.0.93

# **Automation Controllers**

# **Primary HA Server**

**Device:** Raspberry Pi 3 HA Server

**Z-Wave Controller:** Aeotec Z-Stick Gen5

**IP Address:** 10.0.3.0

**Server Application:** Home Assistant **Web Interface:** https://bulock.house **Location:** Media Cabinet – Living Room

### Wink

**Device:** Wink 1

**IP Address:** 10.0.3.1

**Location:** Loft

### **Osram Gateway**

**Device:** Osram LIGHTIFY Gateway

**IP Address:** 10.0.3.2

**Location:** Loft

# **Lutron Bridge**

**Device:** Lutron Smart Bridge Pro 2

**IP Address:** 10.0.3.3

**Location:** Basement Rack

# **Automation Devices**

# Lighting

**Wall Switches** 

**Device:** Lutron Caseta Wireless In-Wall Dimmer

Network: Lutron ClearConnect

Hub: Lutron Bridge

**Outdoor Lights** 

**Device:** Osram LIGHTIFY RGBW Bulbs

Network: Zigbee

**Hub:** Osram Gateway

Kids's Lamps

**Device:** Osram LIGHTIFY RGBW Bulbs

Network: Zigbee

**Hub:** Osram Gateway

**Living Room Lamp** 

**Device:** GE Link Bulb

**Network:** Zigbee

**Hub:** Osram Gateway

**Master Bedroom Lamp** 

**Device:** GE Link Bulb

Network: Zigbee

**Hub:** Osram Gateway

**Kitchen Cabinets** 

**Device:** Osram LIGHTIFY RGBW Light Strips

Network: Zigbee

**Hub:** Osram Gateway

**Fireplace** 

**Device:** Remotec Z-Wave Dry Contact Fixture Module

Network: Z-Wave

**Hub:** Primary HA Server

### **Outdoor Holiday Lights**

**Device:** GE Smart Plug **Network:** Z-Wave

**Hub:** Primary HA Server

#### **Christmas Tree**

**Device:** Leviton Smart Plug

**Network:** Z-Wave

**Hub:** Primary HA Server

#### **Indoor Christmas Decorations**

**Device:** GE Smart Plug **Network:** Z-Wave

**Hub:** Primary HA Server

### **Loft Christmas Lights**

**Device:** Inovelli Smart Plug

Network: Z-Wave

**Hub:** Primary HA Server

#### **Motion Sensors**

### **Breakfast Bar**

**Device:** GoControl Motion Sensor

**Network:** Z-Wave

**Hub:** Wink

#### **Downstairs Bathroom**

**Device:** EcoLink Motion Sensor

**Network:** Z-Wave

**Hub:** Primary HA Server

### **Door/Window Sensors**

**Device:** GoControl Door/Window Sensors

**Network:** Z-Wave

**Hub:** Doors on Wink, Window on Primary HA Server

### **Washing Machine Door**

**Device:** EcoLink Door Sensor

**Network:** Z-Wave

**Hub:** Primary HA Server

# Security

Locks

**Device:** Schlage Connect

**Network:** Z-Wave

**Hub:** Primary HA Server

Siren

**Device:** GoControl Wireless Siren & Strobe

**Network:** Z-Wave

**Hub:** Wink

### Misc

**Power Monitoring** 

**Device:** Aeotec Smart Switch 6

**Network:** Z-Wave

**Hub:** Primary HA Server

**Water Levels** 

**Device:** Aeotec Water Sensor

**Network:** Z-Wave

**Hub:** Primary HA Server