One platform setup
- One main router
- WAN can connect to internet if needed.

For remote rooms
- Connect a switch to the router, or
- Connect an access point to the router, or
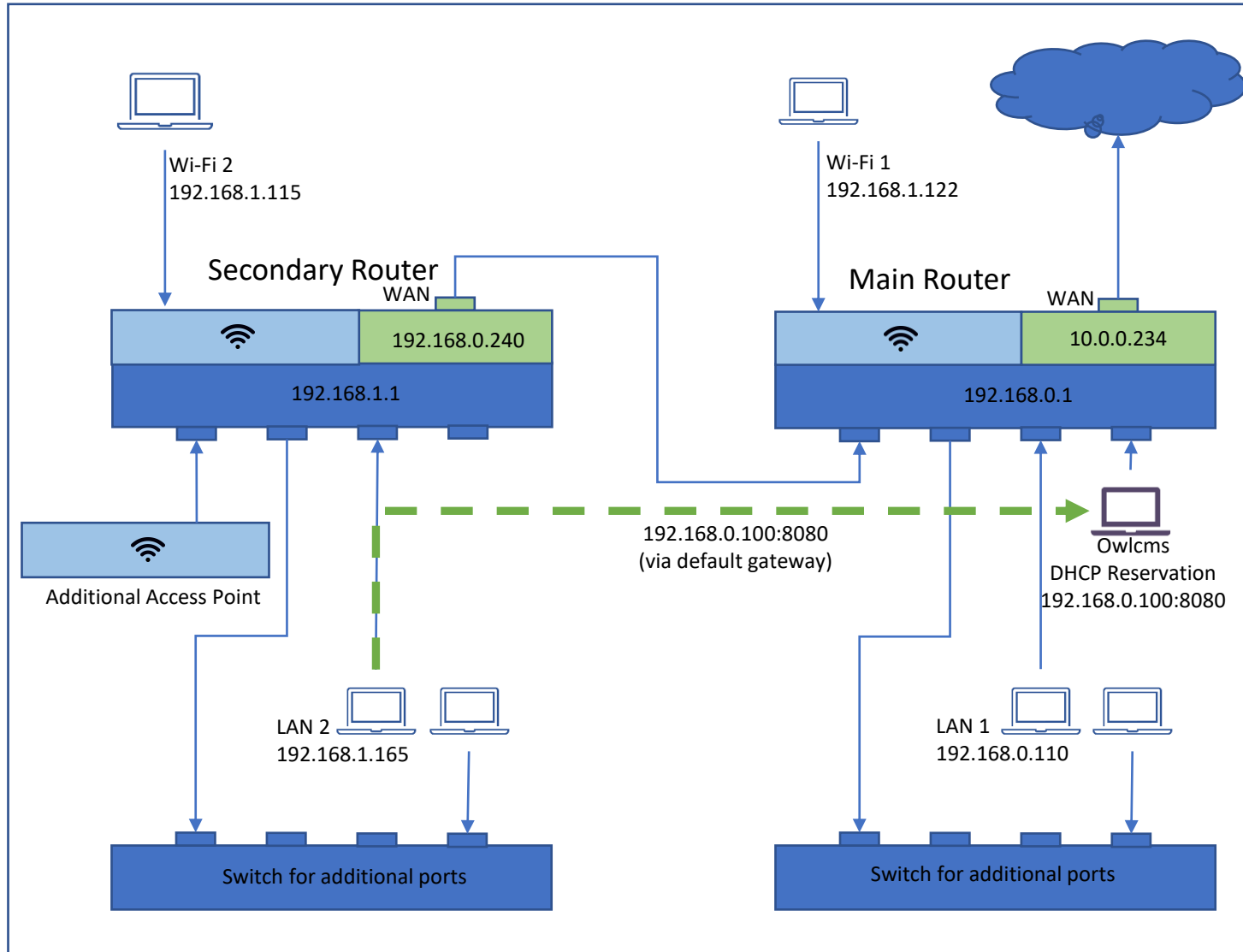- Connect a router to the router (see next page)
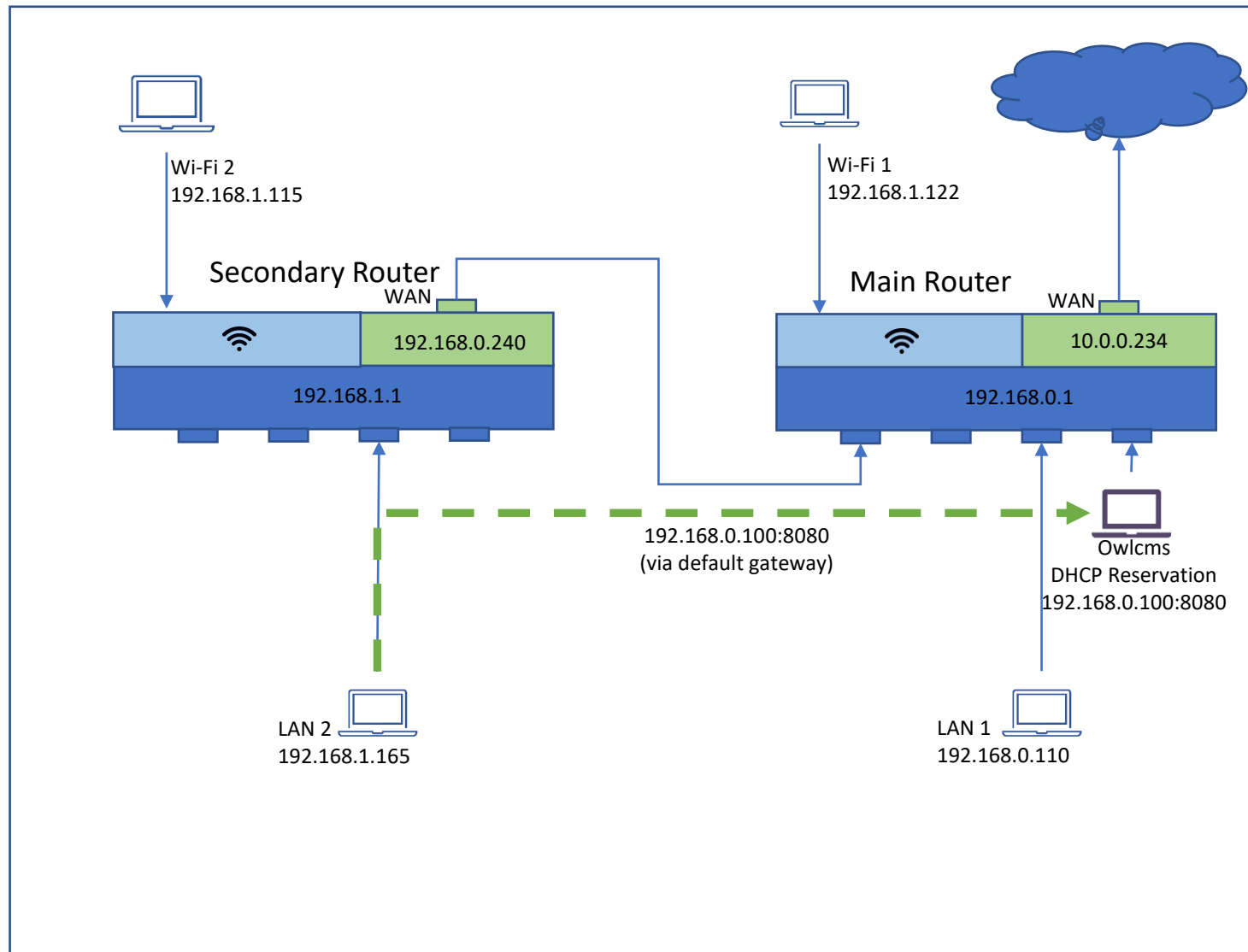
Competition Network
- All machines see owlcms using its 192.168 address

Distant room using routers
- You can connect one or more routers to a router
- On the secondary routers
  - For simplicity use different names for the two Wi-Fi networks
  - Ideally, change the Wi-Fi channel to be different

Diagram labels:

Wi-Fi 2
192.168.1.115

Wi-Fi 1
192.168.1.122

Secondary Router
WAN
192.168.0.240
192.168.1.1

Main Router
WAN
10.0.0.234
192.168.0.1

192.168.0.100:8080
(via default gateway)

Owlcms
DHCP Reservation
192.168.0.100:8080

LAN 2
192.168.1.165

LAN 1
192.168.0.110

Competition Network
- All machines see owlcms using its 192.168 address
- One secondary router per additional platform or room

Wi-Fi 2
192.168.1.115

Wi-Fi 1
192.168.1.122

Secondary Router
WAN
192.168.0.240
192.168.1.1

Main Router
WAN
10.0.0.234
192.168.0.1

Additional Access Point

192.168.0.100:8080
(via default gateway)

Owlcms
DHCP Reservation
192.168.0.100:8080

LAN 2
192.168.1.165

LAN 1
192.168.0.110

Switch for additional ports

Switch for additional ports

Competition Network
- All machines see owlcms using its 192.168 address
- One secondary router per additional platform or room

Multiple platforms
- For simplicity,
  - connect the other platform routers directly to the main router
  - Use different Wi-Fi names
  - Use different channels
- You can connect one or more switches or access points to each router if you need more ports.

Competition Network

- All machines see owlcms using its 192.168 address
- One secondary router per additional platform
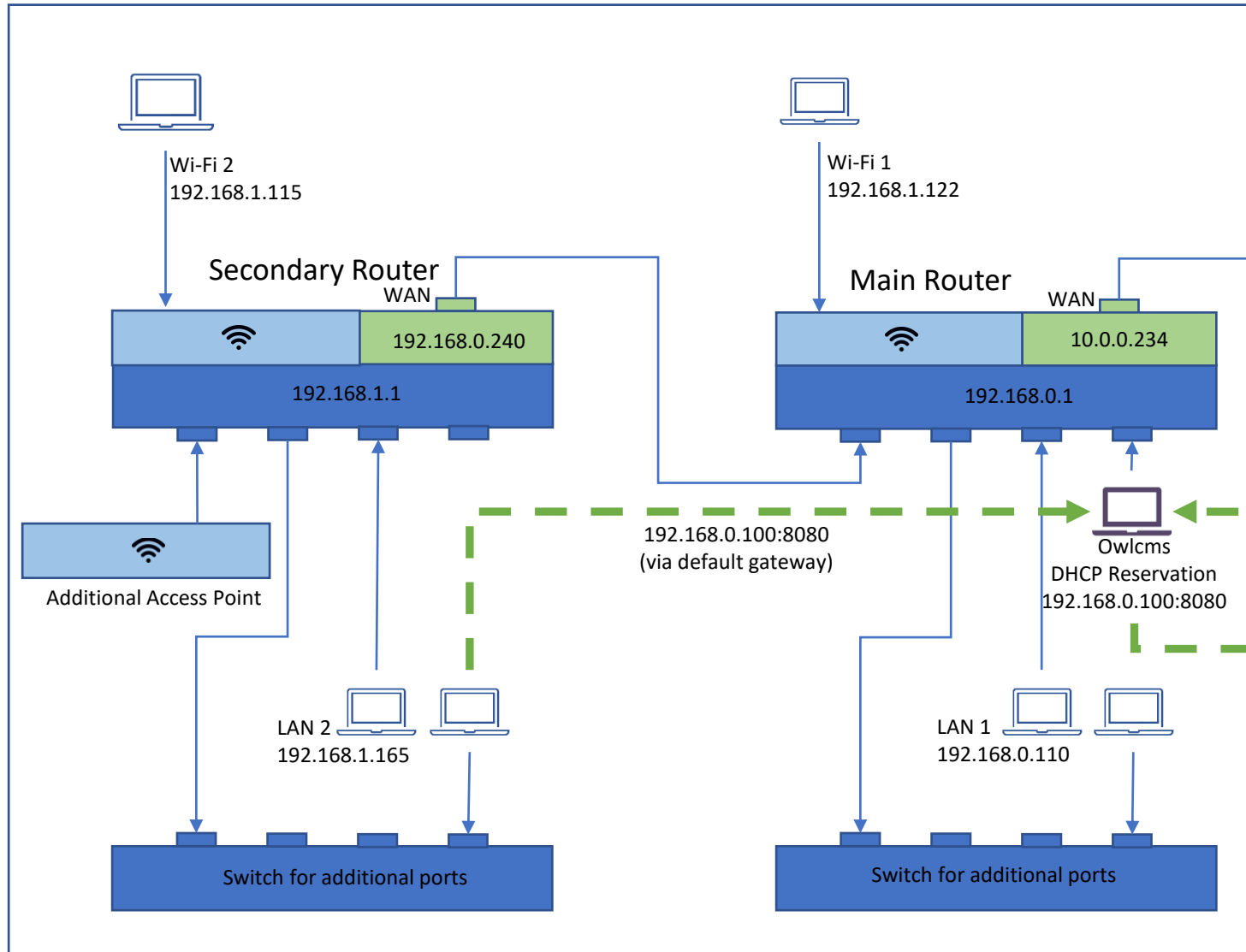
Isolated Video Network

- Needs a redirection to see owlcms
- Avoids video traffic hitting the competition router

Wi-Fi 2
192.168.1.115

Wi-Fi 1
192.168.1.122

Secondary Router
WAN

192.168.0.240

192.168.1.1

Main Router
WAN

10.0.0.234

192.168.0.1

Internet Router
WAN

107.171.217.85

10.0.0.1

Additional Access Point

192.168.0.100:8080
(via default gateway)

Owlcms
DHCP Reservation
192.168.0.100:8080

10.0.0.234:8080
port redirection
configured on router 1 for
192.168.0.100:8080

OBS

YouTube
Facebook
streaming

Heroku
publicresults

LAN 2
192.168.1.165

LAN 1
192.168.0.110

Switch for additional ports

Switch for additional ports

Physical or WIFI connection

IP Connection