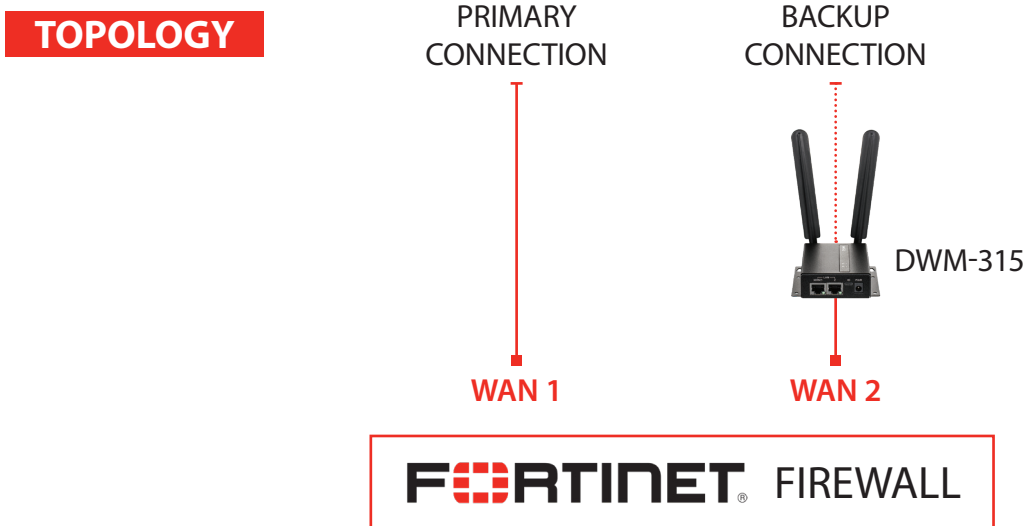


## How to Setup the DWM-315 with **FORTINET Firewall** for Connection Failover



**STEP 1.** To setup the DWM-315 4G LTE M2M Router in Bridge Mode, connect it to your computer and log into it via <http://192.168.0.1>.

After logging in, go to **WAN & Uplink > Connection Setup**. Under **WAN-1** click on the "Edit" button.

The screenshot shows the D-Link DWM-315 web interface. The left sidebar contains navigation options: Status, Basic Network, WAN & Uplink (selected), LAN & VLAN, and IPv6. The main content area is titled 'Connection Setup' and contains an 'Internet Connection List' table. The 'Edit' button for WAN-1 is highlighted with a red box.

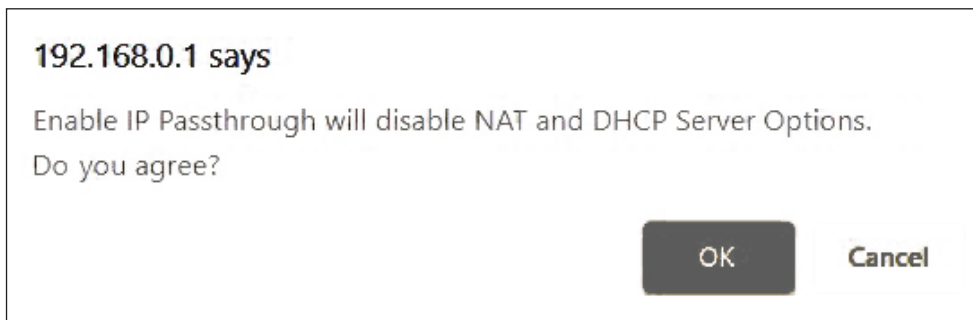
Interface Name	Physical Interface	Operation Mode	WAN Type	Action
WAN-1	3G/4G	Always on	3G/4G	<b>Edit</b>
WAN-2	-	Disable	-	Edit

Scroll down to the **3G/4G Connection Common Configuration**.

Under **IP Passthrough (Cellular Bridge)** tick the "Enable" option.

3G/4G Connection Common Configuration	
Item	Setting
▶ Connection Control	Auto-reconnect ▾
▶ Time Schedule	(0) Always ▾
▶ MTU Setup	<input type="checkbox"/> Enable
▶ IP Passthrough (Cellular Bridge)	<input checked="" type="checkbox"/> Enable Fixed MAC: <input type="text"/>
▶ NAT	<input type="checkbox"/> Enable
▶ IGMP	Disable ▾
▶ WAN IP Alias	<input type="checkbox"/> Enable 10.0.0.1

Click on "Save" and confirm that switching to Bridge Mode will disable NAT and DHCP.



The Setup is complete for DWM-315 in Bridge Mode.

See next page to setup Fortinet Firewall for failover.

## STEP 2. Setting up Fortinet Firewall for failover from Primary Connection to Backup Connection.

a. Go to Network > Interfaces and **Configure WAN1** with your Primary Internet Connection settings.

Status	Name	Members	IP/Netmask	Type	Access
Physical (3)					
dmz			10.10.10.1 255.255.255.0	Physical Interface	PING HTTPS HTTP FMG-Access CAPWAP
wan1 (Primary)			192.168.20.233 255.255.255.0	Physical Interface	PING FMG-Access
wan2 (Backup LTE)			10.100.108.130 255.255.255.252	Physical Interface	PING FMG-Access

b. Configure WAN2 as your backup LTE connection, set it as DHCP.

**Edit Interface**

Interface Name: wan2

Alias: Backup LTE

Link Status: Up

Type: Physical Interface

Role: WAN

Estimated Bandwidth: 0 Kbps Upstream, 0 Kbps Downstream

**Address**

Addressing mode: Manual **DHCP** PPPoE

Status: connected

Obtained IP/Netmask: 10.100.108.130 255.255.255.252 Renew

Expiry Date: January 11, 1970 10:09 AM

Acquired DNS: 10.4.58.204 10.5.136.242

Default Gateway: 10.100.108.129

Retrieve default gateway from server:

Distance: 5

Override internal DNS:

c. Go to **Policy & Objects > IPv4 Policy** and, if not present, create a firewall policy that allows traffic from your primary connection (WAN1) to your internal network. Add similar policy for your backup connection (WAN2).

lan - Backup LTE (wan2) (1 - 1)							
1	Backup	all	all	always	ALL	ACCEPT	Enabled
lan - Primary (wan1) (2 - 2)							
2	Primary	all	all	always	ALL	ACCEPT	Enabled

**Edit Policy**

Name: Backup

Incoming Interface: lan

Outgoing Interface: Backup LTE (wan2)

Source: all

Destination Address: all

Schedule: always

Service: ALL

Action:  ACCEPT  DENY  LEARN

**Firewall / Network Options**

NAT:

**STEP 2. d.** Go to **Network > Static Routes** and create a static route for each of the Internet Connections\*. The primary connection should have a higher route priority (lower "Priority Number") than the secondary connection.

**New Static Route**

Destination ⓘ **Subnet** Named Address Internet Service  
 0.0.0.0/0.0.0.0

Device Primary (wan1) ▼

Gateway 192.168.20.254

Administrative Distance ⓘ 10

Comments 0/255

Status **Enabled** Disabled

**Advanced Options**

Priority ⓘ 5

OK Cancel

**New Static Route**

Destination ⓘ **Subnet** Named Address Internet Service  
 0.0.0.0/0.0.0.0

Device Backup LTE (wan2) ▼

Gateway 10.100.108.129

Administrative Distance ⓘ 10

Comments 0/255

Status **Enabled** Disabled

**Advanced Options**

Priority ⓘ 10

OK Cancel

**Static Routes**

+ Create New Edit Clone Delete

Destination	Gateway	Interface
0.0.0.0/0	192.168.20.254	wan1
0.0.0.0/0	10.100.108.129	wan2

**Routing Monitor**

Refresh Route Lookup

Type	Subtype	Network	Gateway	Interface
Static		0.0.0.0/0	192.168.20.254	wan1 (Primary)
Static		0.0.0.0/0	10.100.108.129	wan2 (Backup LTE)
Connected		10.100.108.128/30	0.0.0.0	wan2 (Backup LTE)
Connected		192.168.0.0/24	0.0.0.0	wan2 (Backup LTE)
Connected		192.168.1.0/24	0.0.0.0	lan
Connected		192.168.20.0/24	0.0.0.0	wan1 (Primary)

« < 1 /1 > » [Total: 6]

**STEP 2.** e. Go to **Dashboard > CLI** and use command line to configure link monitors for both connections:

```
config system link-monitor
edit wan1
    (wan1) #get
        set name wan1
        set server 8.8.8.8
        set protocol ping
        set gateway-ip 192.168.20.254
        set interval 5
        set timeout 1
        set failtime 5
        set recoverytime 5
        set update-cascade-interface enable
        set update-static-route enable
        set status enable
    end
```

```
config system link-monitor
edit wan2
    (wan1) #get
        set name wan1
        set server 4.2.2.2
        set protocol ping
        set gateway-ip 10.100.108.129
        set interval 5
        set timeout 1
        set failtime 5
        set recoverytime 5
        set update-cascade-interface enable
        set update-static-route enable
        set status enable
    end
```

Your setup is now complete.

\* If your connection is using a Dynamic IP address please refer to FortiOS documentation on how to set static routes for dynamic gateways.

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