



FUSIONHUB AWS LAB

LAB MATERIALS

- Any MAX or Balance Router
- Laptop
- InControl2 access

**A limited number of lab kits will be provided for attendees to share.
Recommended for attendees to bring their own materials, but not necessary.*

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PREPARATION

1. Reset devices to defaults before the lab.
When the unit is powered on, hold down its reset button with a paperclip for 10 seconds and release it.
2. Depending on the Peplink device, the instructions on how to access a device's web configuration interface may vary and can be found in the corresponding User Manual:
 - a. <https://www.peplink.com/support/downloads/>
3. Start a web browser on a computer connected to the Peplink router through the LAN.
4. To connect to the router's web admin interface, enter the following LAN IP address in the address field of the web browser:
MAX series <http://192.168.50.1>
Balance series <http://192.168.1.1>
5. Enter the default login credentials to access the web admin interface:
 - a. Username: admin
 - b. Password: admin
6. Make sure the devices run the latest software version.

STEP 1: GENERATE FH LICENSE

1. Make sure you have access to InControl2 organization.
2. In InControl2 generate FusionHub Solo license
3. Move FH software appliance to your group

STEP 2: RUN FUSIONHUB ON AWS

1. Login to AWS account, go to AWS Marketplace and look for Peplink FusionHub.
2. Subscribe to FusionHub and launch the software (it may be paid). You can choose between a quick VM launch and full control VM launch from EC2 console. In the lab we use the launch from EC2 console.
3. Select instance type "t3.micro" or similar. Proceed without a key pair. Other settings leave as default.
4. You should get FH VM running. Additionally, we should disable VM networking interface source/destination check so that FH could run as VPN gateway. Right click on instance, go to networking and disable that setting.

STEP 3: ACCESS FUSIONHUB

1. Open FH UI pointing web browser to instance public IP. FH UI username: admin; password: [AWS Instance ID].
2. Enter key of FH Solo license. After that FH will become online on InControl2.
3. Upgrade FH firmware to the latest version.

STEP 4: MAKE SPEEDFUSION VPN

1. Configure SpeedFusion VPN between router and FH using InControl2. Make sure you select correct FH public IP (VM runs private IP).
2. Check SpeedFusion VPN status.

STEP 5: TERMINATE FH

1. Terminate FH instance at AWS.

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BEST PRACTICES & TIPS

- SpeedFusion VPN higher performance requires CPU resources. Please use below AWS VM recommendation for your project:
 - 5 peers / 100Mbps: t2.micro
 - 20 peers / 200Mbps: t2.small
 - 100 peers / 200Mbps: t2.medium
 - 500 peers / 500Mbps: m4.large
 - 1000 peers / 1000Mbps: c4.2xlarge
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- If you need to migrate FusioHub to another VM or cloud provider, FH license must be released on InControl2, VM stopped, new VM created and FH license reapplied.

TROUBLESHOOTING

- If SpeedFusion VPN cannot be established with FusionHub, make sure you use FH public IP in SF profile and check if AWS VM has correct firewall configuration allowing inbound TCP 32015 and UDP 4500 as minimum. For SF sub-tunnels need more data ports UDP 4501-4504.