Usage instructions:

BigBlueButton 3.0 (Ubuntu 22.04) — Usage Instructions

Important: BigBlueButton requires a **registered domain name** that resolves to this server.

Prerequisites

- In your instance's **Security Group**, allow inbound:
  - **TCP 80, 443** (HTTP/HTTPS)
  - **UDP 3478** (TURN/STUN)
  - **UDP 16384–32768** (WebRTC media)
- (Recommended) Allocate an **Elastic IP** and attach it to this instance before setting DNS.

1) Launch & connect. Launch the product via 1-click from AWS Marketplace. Wait until the instance status changes to 'Running' and passes all health checks. Then, connect to your instance using your Amazon private key and the 'ubuntu' user."

- **To update software, use: sudo apt update && sudo apt upgrade -y**

Run as Adminstrator:

sudo su

2) Point DNS to your instance

Create/Update an **A** record for your domain (e.g., bbb.example.com) → **Public IPv4** of this instance. Tip (optional): verify propagation:

dig +short bbb.example.com

(Output should be your instance's public IP.)

3) Install BBB 3.0 + Greenlight + SSL

Run the one-liner (replace domain/email):

**wget -qO- https://raw.githubusercontent.com/bigbluebutton/bbb-install/v3.0.x-release/bbb-install.sh **
| bash -s -- -w -v jammy-300 -s bbb.example.com -e you@example.com -g

- -v jammy-300 → BBB 3.0 for Ubuntu 22.04
- -s → your FQDN that points to this server
- -e → email for Let's Encrypt

- -w → configures UFW firewall automatically
- -g → installs **Greenlight v3** (web UI)

4) Verify the install

```
bbb-conf --check
bbb-conf --secret     # shows API URL/secret (for integrations)
```

Resolve any red lines from bbb-conf --check before proceeding.

5) Sign up and use BBB

Open:

https://bbb.example.com/

Click **Sign Up** to create your account. Create a room, invite participants, and start a meeting.

Quick test if you don't have a domain yet (optional)

You can perform a non-production test with a temporary hostname and a self-signed cert:

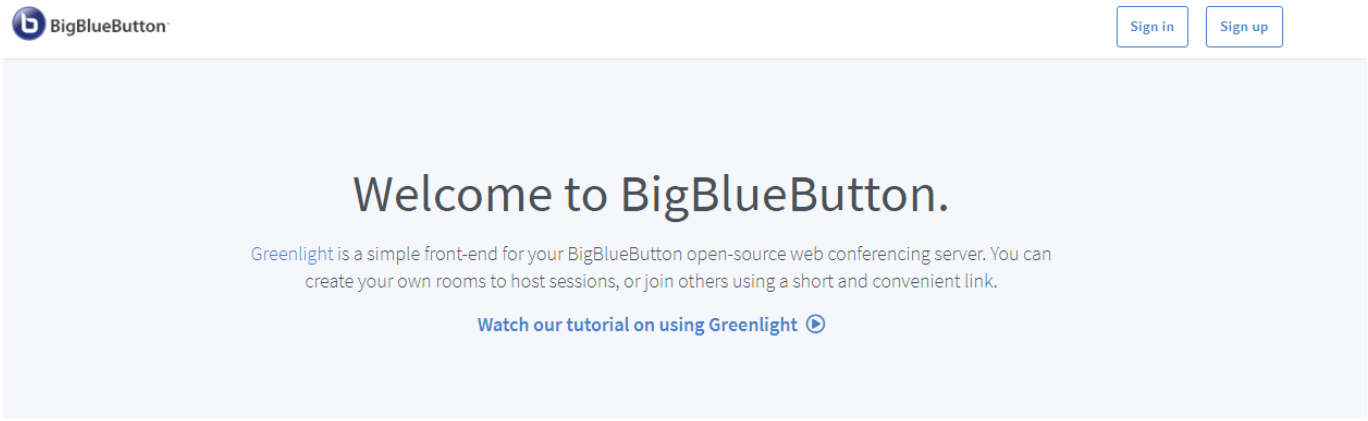
```
# get your public IP and build a temp host
PUBIP="$(curl -fsS http://169.254.169.254/latest/meta-data/public-ipv4)"
HOST="${PUBIP}.sslip.io"

# create self-signed cert in the location BBB expects
mkdir -p /local/certs
openssl req -x509 -nodes -newkey rsa:4096 -days 2 \
  -subj "/CN=${HOST}" \
  -keyout /local/certs/privkey.pem \
  -out    /local/certs/fullchain.pem
chmod 600 /local/certs/privkey.pem

# install BBB with self-signed TLS (no Let's Encrypt)
wget -qO- https://raw.githubusercontent.com/bigbluebutton/bbb-install/v3.0.x-release/bbb-install.sh \
| bash -s -- -w -v jammy-300 -s "$HOST" -d -g
```

Then visit https://<PUBLIC_IP>.sslip.io/ and click through the browser's certificate warning for a quick functionality check.

When ready for production, **re-run the installer** with your real domain and -e you@example.com (omit -d) to obtain a trusted Let's Encrypt certificate.

Troubleshooting checklist

- DNS resolves to this server (use dig +short your.domain).
- Ports open: **80, 443, 3478/UDP, 16384–32768/UDP**.
- Time is synced (timedatectl status).
- bbb-conf --check shows all OK.
- If using self-signed, all users must click through the HTTPS warning.



Extra Information: (Optional)

Allocate Elastic IP

To ensure that your instance **keeps its IP during restarts** that might happen, configure an Elastic IP. From the EC2 console:

1. Select ELASTIC IPs.
2. Click on the ALLOCATE ELASTIC IP ADDRESS.
3. Select the default (Amazon pool of IPv4 addresses) and click on ALLOCATE.
4. From the ACTIONS pull down, select ASSOCIATE ELASTIC IP ADDRESS.
5. In the box that comes up, note down the Elastic IP Address, which will be needed when you configure your DNS.
6. In the search box under INSTANCE, click and find your INSTANCE ID and then click ASSOCIATE.
7. Your instance now has an elastic IP associated with it.
8. For additional help: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html