**Deployment Process of Edumeet through AMI**

**Steps to navigate to Server through putty.**

- Open Putty

-Go to “Auth” and browse .ppk(certificate file) file

-Go to session, copy public DNS: ec2-54-197-205-63.compute-1.amazonaws.com in host name

- selcct SSH from connection type

- Saved session with name (dev server)

-Login Ubuntu machine

- Go to root directory by : sudo bbb-conf

-To restart : sudo bbb-conf --restart

-To check : sudo bbb-conf –check

-To status : sudo bbb-conf –status

-To version : sudo bbb-conf --version

**Browse the folder and check through winscp**

-Open winscp

-login Ubuntu machine( un: Ubuntu)

-import site from tool dropdown

-import from putty(Dev server)

Show Hidden File from winscp

-option/prefrences/show hidden files

**Configure Deployement Process**

**Step1:** We need to configre Kurento to use stun server

we need to edit /etc/kurento/modules/kurento/WebRtcEndpoint.conf.ini and uncomment and assign values for stunServerAddress and stunServerPort.

For example, to use the STUN server at 64.233.177.127 with port 19302, edit the lines with stunServerAddress and stunServerPort as follows:

stunServerAddress=64.233.177.127

stunServerPort=19302

Command: sudo cp WebRtcEndpoint.conf.ini /etc/kurento/modules/kurento/

**Step 2:** edit /opt/freeswitch/conf/sip\_profiles/external.xml and ensure the value for wss-binding uses the external IP address(54.197.205.63)

Example: <param name="wss-binding" value="EXTERNAL\_IP\_ADDRESS:7443"/>

Command: sudo cp external.xml /opt/freeswitch/conf/sip\_profiles/

After this, we need to restart BigBlueButton server with

bbb-conf –restart

**Step 3:** Edit /opt/freeswitch/conf/vars.xml and

change <X-PRE-PROCESS cmd="set" data="external\_rtp\_ip=stun:stun.freeswitch.org"/>

To <X-PRE-PROCESS cmd="set" data="external\_rtp\_ip=EXTERNAL\_IP\_ADDRESS"/> //(54.197.205.63)

AND

Change <X-PRE-PROCESS cmd="set" data="external\_sip\_ip=stun:stun.freeswitch.org"/>

To <X-PRE-PROCESS cmd="set" data="external\_sip\_ip=EXTERNAL\_IP\_ADDRESS"/> //(54.197.205.63)

Command: sudo cp vars.xml /opt/freeswitch/conf/

**Step 4:** edit

/opt/freeswitch/conf/sip\_profiles/external.xml and change

<param name="ext-rtp-ip" value="$${local\_ip\_v4}"/>  
<param name="ext-sip-ip" value="$${local\_ip\_v4}"/>  
to

<param name="ext-rtp-ip" value="$${external\_rtp\_ip}"/>  
<param name="ext-sip-ip" value="$${external\_sip\_ip}"/>

Command: sudo cp external.xml /opt/freeswitch/conf/sip\_profiles/

**Step 5:** edit

edit /usr/share/red5/webapps/sip/WEB-INF/bigbluebutton-sip.properties, and make sure the values of bbb.sip.app.ip and freeswitch.ip have the internal IP address.

Example:

bbb.sip.app.ip=<internal\_ip> // 172.31.87.64

bbb.sip.app.port=5070

freeswitch.ip=<internal\_ip>

freeswitch.port=5060

Command: sudo cp bigbluebutton-sip.properties /usr/share/red5/webapps/sip/WEB-INF

**Step 6:** Edit

/etc/bigbluebutton/nginx/sip.nginx to connect to the external IP address.

If you have **configured SSL,** use port **7443**:

location /ws {

proxy\_pass https://EXTERNAL\_IP\_ADDRESS:7443;

proxy\_http\_version 1.1;

proxy\_set\_header Upgrade $http\_upgrade;

proxy\_set\_header Connection "Upgrade";

proxy\_read\_timeout 6h;

proxy\_send\_timeout 6h;

client\_body\_timeout 6h;

send\_timeout 6h;

}

Command: sudo cp sip.nginx /etc/bigbluebutton/nginx/

Check If enableListenOnly is set to true in /usr/share/meteor/bundle/programs/server/assets/app/config/settings.yml, as in

$ grep enableListenOnly /usr/share/meteor/bundle/programs/server/assets/app/config/settings.yml

enableListenOnly: true

**Step 7:** edit

/usr/local/bigbluebutton/bbb-webrtc-sfu/config/default.yml

change the value to ip to match the **external IP address** of the server, and the value of sip\_ip to match the **internal IP address** of the server (where FreeSWITCH is listening to port 5066). For example, if the servers external IP address is 54.197.205.63 and the internal IP address is 172.31.87.64 then edit default.yml and change the values for ip and sip\_ip as follows:

freeswitch:

ip: 54.197.205.63 //external ip

sip\_ip: 172.31.87.64 //internal ip

port: 5066

Command: sudo cp default.yml /usr/local/bigbluebutton/bbb-webrtc-sfu/config/

**Step 8:** edit

/opt/freeswitch/conf/vars.xml

Edit line number 61- Localipaddress = 172.31.87.64 //internal ip

Command: sudo cp vars.xml opt/freeswitch/conf/

**Note:** We need to edit these above changes through ubuntu machine using terminal.

To edit the file: Go to directory and type sudo nano filename