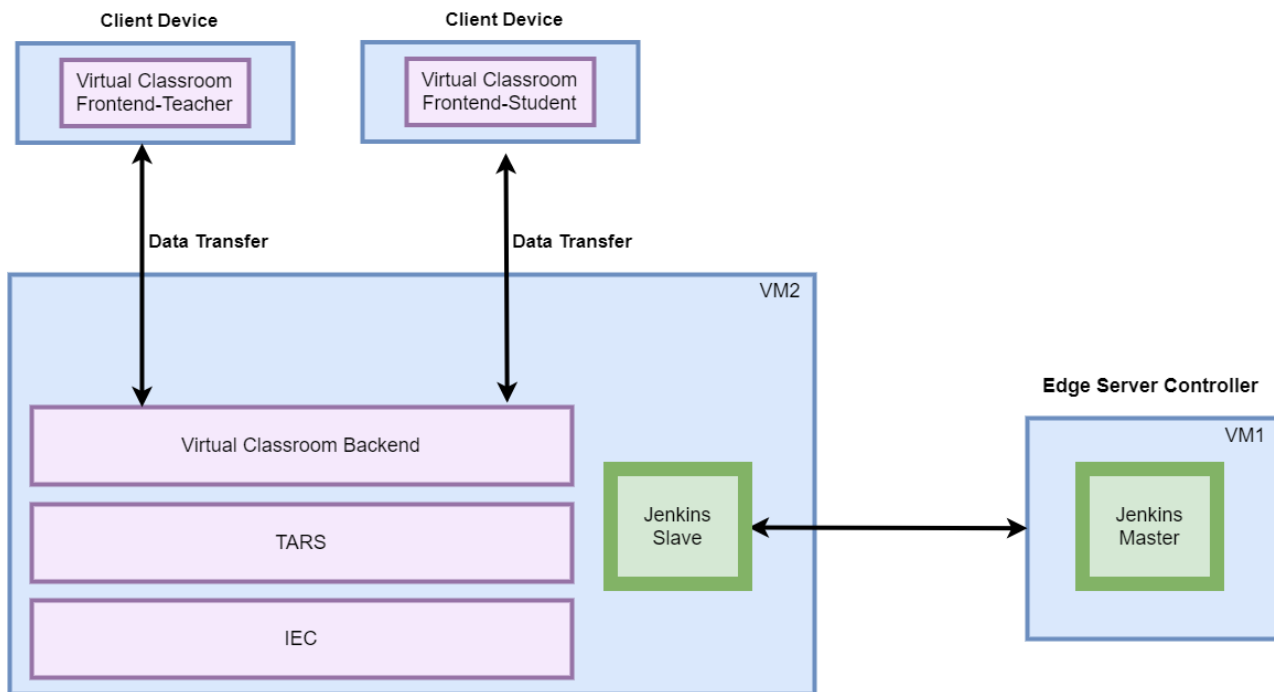# Test Doc-Type 4

Test Minimum Requirements

- At least One Student Client, normally one Personal Computer
- At least One Teacher Client, normally one Personal Computer
- At least One Virtual Machine or Physical Server for service side

Test Architecture

For the minimum deployment, we ONLY test the function of the virtual classroom.   Just deploy two clients and a server, shown in purple color, will be OK.

If you would like to test CI/CD functions, we would suggest deploying the functions shown in green color.

Furthermore, if you want to test the scale-out feature, adding more Client Devices and backend servers are required.

Test Steps

Step 1: Run Virtual Classroom in the backend

After everything is installed successfully(In terms of the detail installation, refer to Installation Document),   run the virtual classroom application via the following commands:

```
cd /root/openvidu-vr/openvidu-vr-room

http-server -S
```

Step 2: Test on your PC via the browser

Note well: Make sure 8080 port is NOT blocked by the firewall.

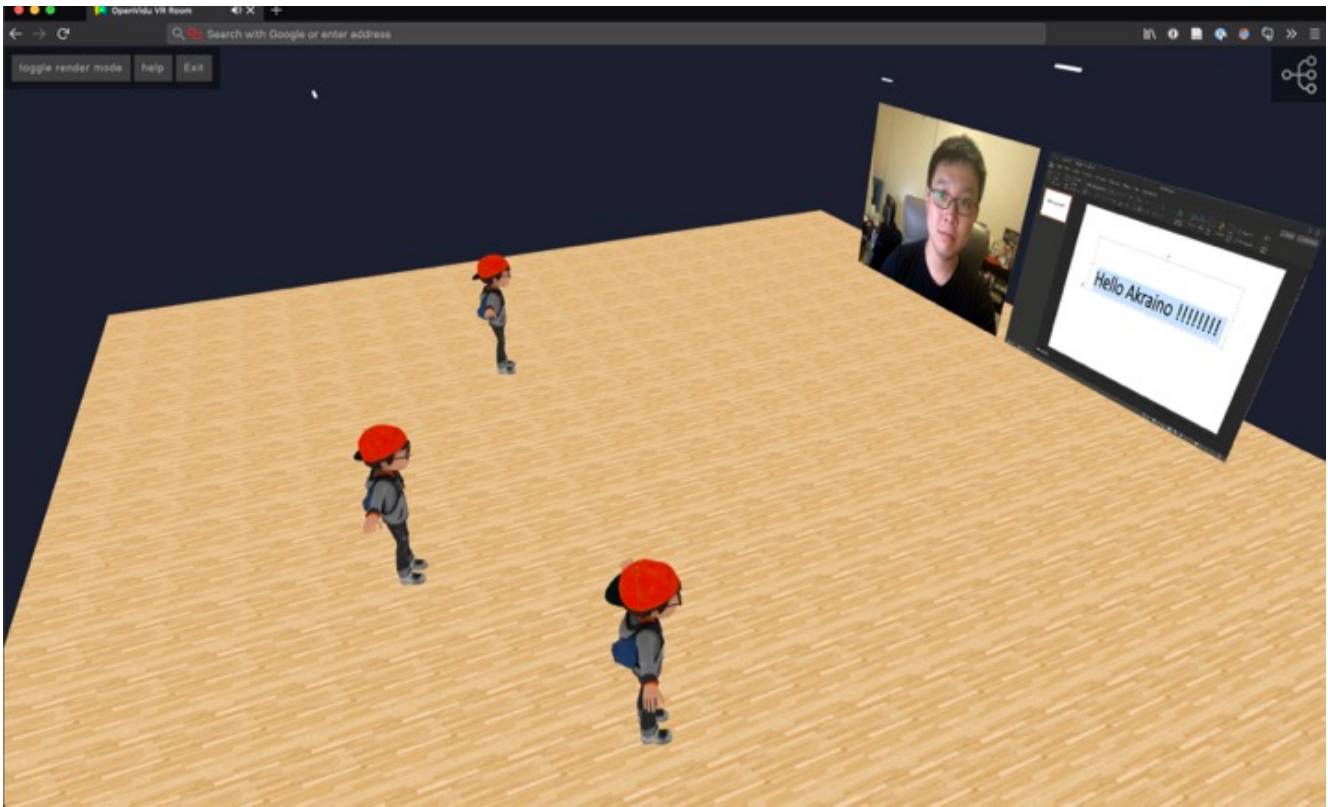Open Firefox on PC and visit the website: IP Address + 8080(Port Number)

Step 3: Test Teacher Mode

Press the Teacher Mode button and check the Teacher mode. In teacher mode, you will see the classroom as a teacher's view. You can see some students are in the classroom and are listening to your presentation. Then test talking to the student, test on-and-off the presentation screen as so on.

Step 4: Test Student Mode

Press the Student Mode button and check the Student mode. In Student mode, you will see the classroom as a student's view. You can see the teacher and other students on the remote side. Then test talking to the teacher and other students, test on-and-off the presentation screen as so on.

Enjoy the virtual classroom!