

# Jitsi Meet Installation

## 1.- Prepare a server machine

### 1.1.- Hardware Minimum requirement:

1GB RAM  
2Ghz CPU  
25GB Disk  
100MB Net

### 1.2.- Software OS

Ubuntu 16.04 LTS recommended

### 1.3.- Enable root user (In some case is necesario where the user root is disabled)

```
root@meet:~# su  
root@meet:~# sudo passwd root (Enter the new password twice)
```

### For ubuntu 16

```
root@meet:~# sudo sed -i 's/prohibit-password/yes/' /etc/ssh/sshd_config  
root@meet:~# sudo systemctl restart sshd
```

In /etc/ssh/sshd\_config uncomment the following line (this applies to point 18)

```
PermitRootLogin yes  
root@meet:~# sudo systemctl restart sshd
```

### 1.4.- Update

```
root@meet:~# apt -y update
```

### 1.5.- Firewall

```
root@meet:~# apt -y install ufw
```

80 TCP (HTTP)  
443 TCP (HTTPS)  
10000-20000 UDP

#### 1.5.1.- Set Firewall Rules (recommended)

```
root@meet:~# ufw allow in ssh  
Rule added  
Rule added (v6)
```

```
root@meet:~# ufw allow in 80/tcp  
Rule added  
Rule added (v6)
```

```
root@meet:~# ufw allow in 443/tcp
```

Rule added  
Rule added (v6)

```
root@meet:~# ufw allow in 10000:20000/udp  
Rule added  
Rule added (v6)
```

```
root@meet:~# ufw enable  
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y  
Firewall is active and enabled on system startup
```

### 1.6.- Install Apache y dependencias

```
root@meet:~# apt -y install apt-transport-https  
root@meet:~# apt -y install apache2  
root@meet:~# sudo systemctl restart apache2
```

```
root@meet:~# apt-get install gnupg gnupg2 gnupg1
```

## 2.- Install jitsi

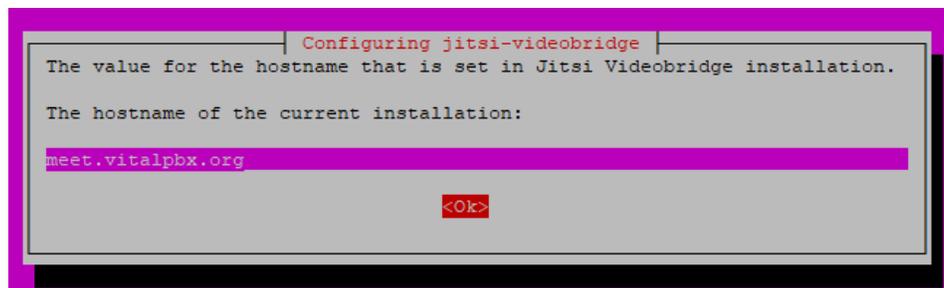
### 2.1- Add the Jitsi repository

```
root@meet:~# wget https://download.jitsi.org/jitsi-key.gpg.key  
root@meet:~# apt-key add jitsi-key.gpg.key  
OK  
root@meet:~# echo 'deb https://download.jitsi.org stable/' > /etc/apt/sources.list.d/jitsi-stable.list  
root@meet:~# apt -y update  
root@meet:~# apt -y install jitsi-meet
```

#### 2.1.1.- Hostname

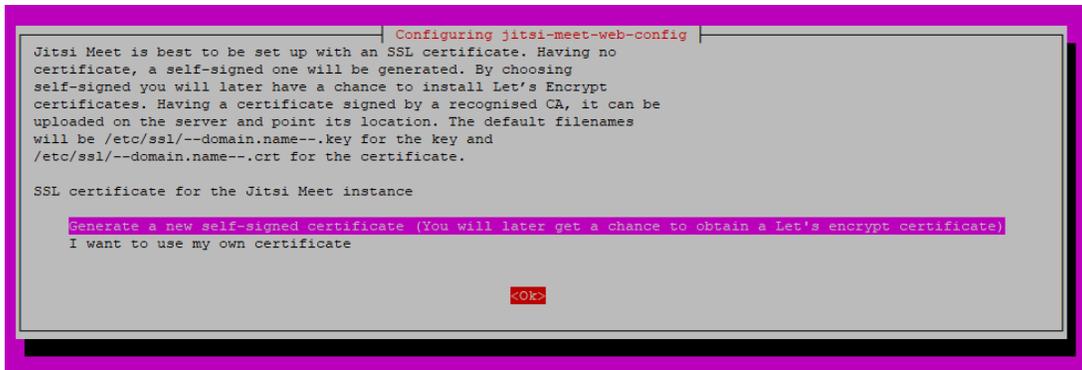
Write the hostname

Note: For Jitsi to work well, you must have a valid hostname such as example meet.mycompany.com..



#### 2.1.2.- SSL Certificate

Select self-signed certificate

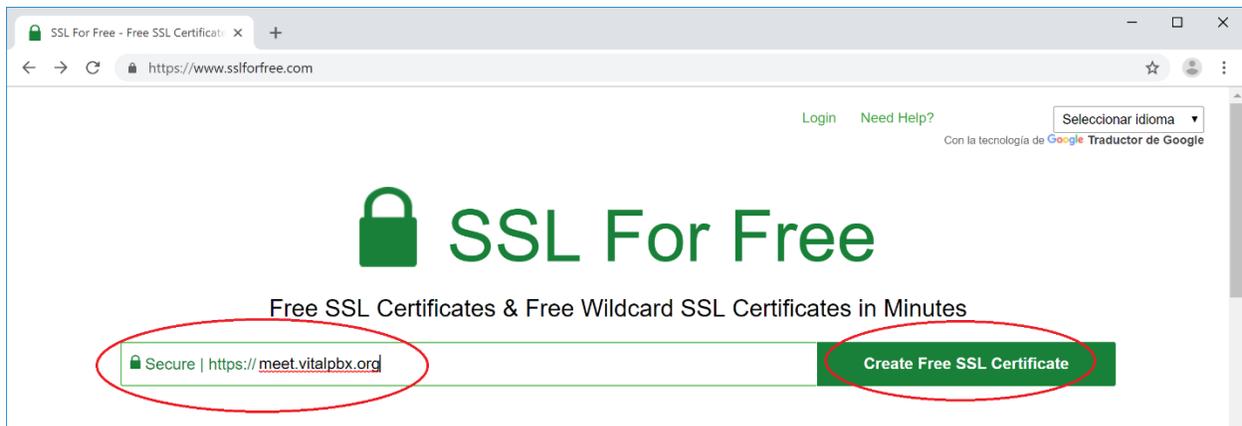


### 2.1.3.- Generate free certificate

Go to:

<https://www.sslforfree.com>

Write domain name and press “Create Free SSL Certificate”



Then Select Manual Verification and press “Manual Verify Domain”

The screenshot shows the 'Create SSL Certificate' page on the SSL For Free website. The page title is 'Free SSL Certificate Validation for "meet.vitalpbx.org"'. There are three verification options: 'Automatic FTP Verification', 'Manual Verification' (highlighted with a red circle), and 'Manual Verification (DNS)'. The 'Manual Verification' option is selected. Below the options, there is a section titled 'Manually Verify Domain (HTTP Server)' with a list of steps: 1. Get domain verification files by clicking the button below, 2. Upload domain verification files to domain (Need help?), and 3. Download your free ssl certificate. A 'Manually Verify Domain' button is also highlighted with a red circle.

Create directory and copy file:

```
root@meet:~# cd /var/www/html/  
root@meet:~# mkdir .well-known  
root@meet:~# cd .well-known  
root@meet:~# mkdir acme-challenge
```

Copy the file to acme-challenge

Copy the certificate to:

```
/etc/jitsi/meet/meet.vitalpbx.org.crt  
/etc/jitsi/meet/meet.vitalpbx.org.key
```

Restart Apache

```
root@meet:~# service apache2 restart
```

### 3.- Now customize meet

#### 3.1.- Change Watermark and favicon

In /usr/share/jitsi-meet/images change the watermark.png and favicon.ico

#### 3.2.- Change favicon

In /usr/share/jitsi-meet/ change favicon.ico

### 3.3.- Change configuration file (Replace VitalPBX for you Company name)

In /usr/share/jitsi-meet/interface\_config.js

```
DEFAULT_REMOTE_DISPLAY_NAME: 'Fellow Jitster',  
to  
DEFAULT_REMOTE_DISPLAY_NAME: 'Fellow VitalPBX',  
  
JITSI_WATERMARK_LINK: 'https://jitsi.org',  
to  
JITSI_WATERMARK_LINK: 'https://vitalpbx.org',  
  
APP_NAME: 'Jitsi Meet',  
to  
APP_NAME: 'VitalPBX',  
  
NATIVE_APP_NAME: 'Jitsi Meet',  
to  
NATIVE_APP_NAME: 'VitalPBX',
```

### 3.4.- To enable desktop sharing

Go to /etc/jitsi/meet/meet.vitalpbx.org-config.js and change

```
desktopSharingChromeDisabled: true,  
to  
desktopSharingChromeDisabled: false,
```

```
desktopSharingChromeExtId: null,  
to  
desktopSharingChromeExtId: 'gnpoidnfhjejddgbahbifocljlfomeci',
```

This ID is the one used by the VitalPBX extension, you can create your own extension following the steps in point 3.5

### 3.5.- Create extension the screen share google

Download <https://github.com/jitsi/jidesha> in ZIP format

Go to the chrome directory and modify manifest.json

```
{  
  "manifest_version": 2,  
  "name": "Jitsi Desktop Streamer",  
  "description": "A simple extension that allows you to stream your desktop into meetings with Jitsi Meet and Jitsi Videobridge.",  
  "version": "0.1.1",  
  "minimum_chrome_version": "34",  
  "icons": {  
    "16": "jitsi-logo-16x16.png",  
    "48": "jitsi-logo-48x48.png",  
    "128": "jitsi-logo-128x128.png"  
  },  
  "background": {  
    "scripts": [ "background.js" ],
```

```
"persistent": true
},
"permissions": [
"desktopCapture"
],
"externally_connectable": {
"matches": [
"*://meet.jit.si/*"
]
}
}
```

You want to edit the last line:

```
"*://meet.jit.si/*"
to reflect the domain of your jitsi install eg
```

```
"*://jitsi.myserver.org/*"
or whatever... don't put in http or https or anything, just replace the domain information.
```

Now you have to copy it in the following way:

In chrome write  
chrome://extensions

Check the box 'developer mode' if it is not already checked you will see a button 'pack extension' appear at the top, click this click the button next to 'extension root directory' browser to and select the 'chrome' directory where you have that manifest.json file click 'open' click 'pack extension'

A new file 'chrome.crx' will appear.

Now you need to load that into your extensions, to do that you need to drag the chrome.crx file to the extensions page open in your browser. It will then just appear, by default it is enabled.

Now...you are almost there...you now have to go to your server and make a few changes. These all happen in one file, the jitsi meet config file. Open the file '/etc/jitsi/meet/[YOUR JITSY DOMAIN]-config.js' with your fav text editor.

You need to change these lines:

```
// The ID of the jidesha extension for Chrome.
desktopSharingChromeExtId: 'put your Chrome extension ID here',
// Whether desktop sharing should be disabled on Chrome.
desktopSharingChromeDisabled: false,
// The media sources to use when using screen sharing with the Chrome
// extension.
```

By default, there will be no chrome extension ID and sharing is default turned off. Make sure desktopSharingChromeDisabled is set to false, and put your chrome extension ID in between single quotes after desktopSharingChromeExtId.

But... I hear you say.... what is my chrome extension ID? good question... to get this, go back to your browser and in the chrome://extensions you will see an id listed next to your jitsi-meeting extension. It will be a long string of numbers and letters next to the simple text 'ID:'

Copy and paste that into the config between single quotes, no spaces and exclude the 'ID:' bit. Save and exit the config file. You shouldn't have to restart Jitsi but if you feel like playing it safe restart as per above.

Navigate to your jitsi meeting and it should work under https, show the desktop sharing icon, and enable desktop sharing! Good luck! I'll be testing out our install in the next weeks and will post here. Oh...if you wish to replace the default jitsi watermark on the top right then replace the file /usr/share/jitsi-meet/images/watermark.png with a transparent png.

<https://github.com/jitsi/jidesha/tree/master/chrome>  
<https://developer.chrome.com/extensions/packaging>