

Scalable setup Jitsi Docker

Link: <https://jitsi.github.io/handbook/docs/devops-guide/devops-guide-scalable>

A single server Jitsi installation is good for a limited size of concurrent conferences. The first limiting factor is the videobridge component, that handles the actual video and audio traffic. It is easy to scale the video bridges horizontally by adding as many as needed. In a cloud based environment, additionally the bridges can be scaled up or down as needed.

DANGER

The [Youtube Tutorial on Scaling](#) is outdated and describes an old configuration method. The current default Jitsi Meet install is already configured for horizontal scalability.

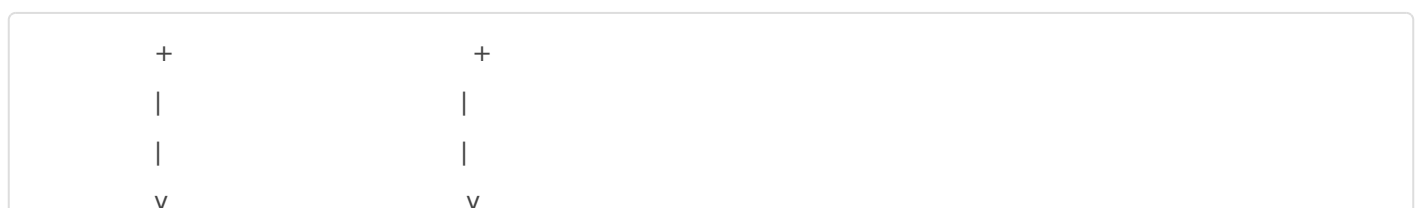
NOTE

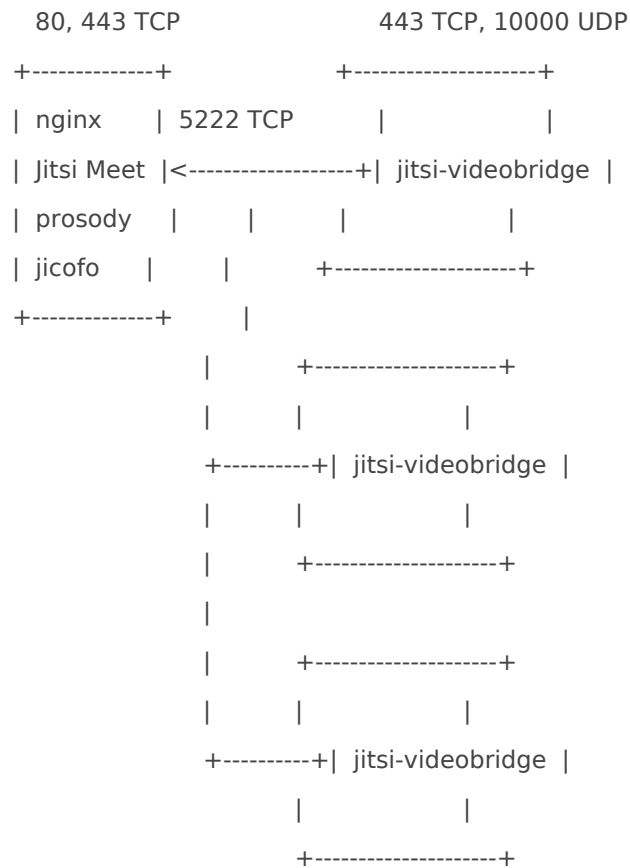
Building a scalable infrastructure is not a task for beginning Jitsi Administrators. The instructions assume that you have installed a single node version successfully, and that you are comfortable installing, configuring and debugging Linux software. This is not a step-by-step guide, but will show you, which packages to install and which configurations to change. It is highly recommended to use configuration management tools like Ansible or Puppet to manage the installation and configuration.

Architecture (Single Jitsi-Meet, multiple videobridges)

A first step is to split the functions of the central jitsi-meet instance (with nginx, prosody and jicofo) and videobridges.

A simplified diagram (with open network ports) of an installation with one Jitsi-Meet instance and three videobridges that are load balanced looks as follows. Each box is a server/VM.





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Machine Sizing

The Jitsi-Meet server will generally not have that much load (unless you have many) conferences going at the same time. A 4 CPU, 8 GB machine will probably be fine.

The videobridges will have more load. 4 or 8 CPU with 8 GB RAM seems to be a good configuration.

Installation of Jitsi-Meet

Assuming that the installation will run under the following FQDN: `meet.example.com` and you have SSL cert and key in `/etc/ssl/meet.example.com.{crt,key}`

Set the following DebConf variables prior to installing the packages. (We are not installing the `jitsi-meet` package which would handle that for us)

Install the `debconf-utils` package

```
$ cat << EOF | sudo debconf-set-selections
jitsi-videobridge jitsi-videobridge/jvb-hostname string meet.example.com
jitsi-meet jitsi-meet/jvb-serve boolean false
jitsi-meet-prosody jitsi-videobridge/jvb-hostname string meet.example.com
jitsi-meet-web-config jitsi-meet/cert-choice select I want to use my own certificate
jitsi-meet-web-config jitsi-meet/cert-path-crt string /etc/ssl/meet.example.com.crt
jitsi-meet-web-config jitsi-meet/cert-path-key string /etc/ssl/meet.example.com.key
jitsi-meet-web-config jitsi-meet/jaas-choice boolean false
EOF
```

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To enable integration with [Jitsi Meet Components](#) for telephony support, set the `jitsi-meet/jaas-choice` option above to `true`.

On the jitsi-meet server, install the following packages:

- `nginx`
- `prosody`
- `jicofo`
- `jitsi-meet-web`
- `jitsi-meet-prosody`
- `jitsi-meet-web-config`

Installation of Videobridge(s)

For simplicities sake, set the same `debconf` variables as above and install

- `jitsi-videobridge2`

Configuration of jitsi-meet

Firewall

Open the following ports:

Open to world:

- 80 TCP
- 443 TCP

Open to the videobridges only

- 5222 TCP (for Prosody)

NGINX

Create the `/etc/nginx/sites-available/meet.example.com.conf` as usual

Jitsi-Meet

Adapt `/usr/share/jitsi-meet/config.js` and `/usr/share/jitsi-meet/interface-config.js` to your specific needs

Jicofo

No changes necessary from the default install.

Configuration of the Videobridge

Firewall

Open the following ports:

Open to world:

- 10000 UDP (for media)

jitsi-videobridge2

No changes necessary from the default setup.

Testing

After restarting all services (`prosody`, `jicofo` and all the `jitsi-videobridge2`) you can see in `/var/log/prosody/prosody.log` and `/var/log/jitsi/jicofo.log` that the videobridges connect to Prosody and that Jicofo picks them up.

When a new conference starts, Jicofo picks a videobridge and schedules the conference on it.

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