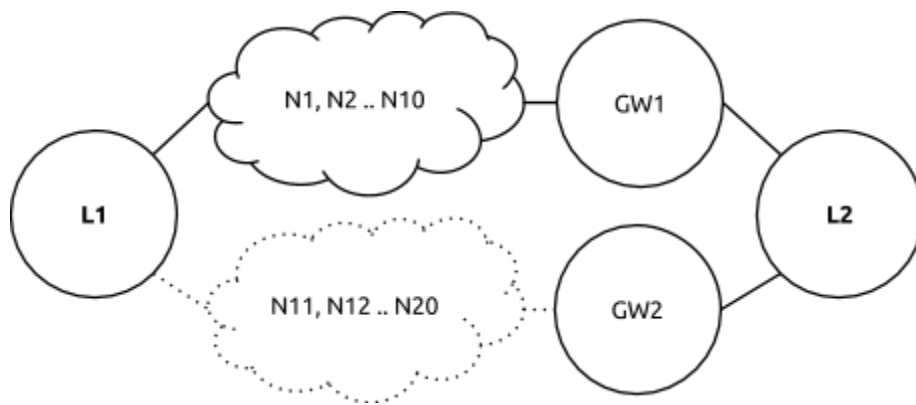


## The Convergence Time Relay

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### Setup and description

You create a large mesh cloud of 20 routers spread all over the place like this:



The metric of  $L1 \rightarrow GW1$  needs to be a lot better than the metric of  $L1 \rightarrow GW2$  (see dotted line in figure above), while  $GW1$  and  $GW2$  are both gateways announcing the address of  $L2$ . When creating this setup make sure the upper path will be preferred under normal conditions.

### Test plan

You will analyze how long it takes one routing protocol to decide using path  $L1 \rightarrow GW2$  after upper  $L1 \rightarrow GW1$  has been switched off and vice versa. Use `mtr` to perform a continuous traceroute between  $L1$  and  $L2$ , use `ping` with short interval option to count lost replies.

Requirements:

- 20x TL-WDR4300 with OpenWRT (including `olsr`, `olsr2`, `bmw6` and `batman-adv`)

Scenario 4



## The Convergence Time Relay

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**Results and interpretation**