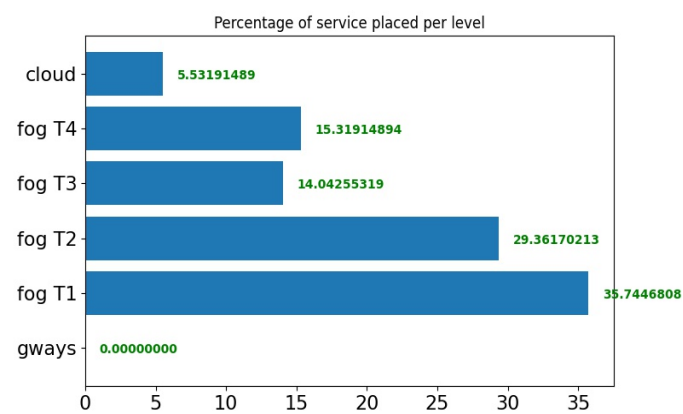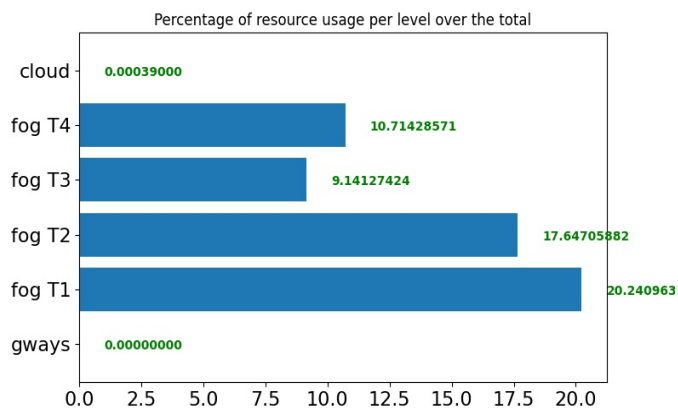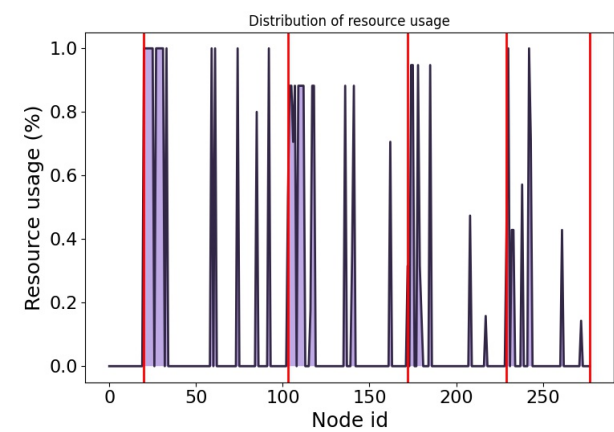# Simulation - 12/07/2021 12:05:15

Experiment Configuration:

Description: The number of nodes at the upper levels decreases by a factor of 1.2

```
IOT_DEVICES_NUM: 100
NETWORK_LEVELS_NUM: 7
REDUCTION_FACTOR_1: 5
LINK_GENERATION_PROBABILITY_FOG0: 0
REDUCTION_FACTOR_2: 1.2
HUB_GENERATION_PROBABILITY: 0.1
ALL_TO_CLOUD: False
MIN_CONN_TO_UPPER_LEVELS: 20
MAX_CONN_TO_UPPER_LEVELS: 30
PRIVACY_ASSIGNEMENT: random.randrange(0,100) <= 20
FUNC_NODE_RAM_FOG0: 15
FUNC_NODE_RAM_FOG1: 17
FUNC_NODE_RAM_FOG2: 19
FUNC_NODE_RAM_FOG3: 21
FUNC_NODE_RAM_CLOUD: 9999999
FUNC_NODE_IPT_FOG0: 200
FUNC_NODE_IPT_FOG1: 400
FUNC_NODE_IPT_FOG2: 600
FUNC_NODE_IPT_FOG3: 800
FUNC_NODE_IPT_CLOUD: 9999
FUNC_EDGE_PR_SAME_LEVEL: 17
FUNC_EDGE_PR_ADJ_LEVEL: 7
FUNC_EDGE_PR_NON_ADJ_LEVEL_1: 10
FUNC_EDGE_PR_NON_ADJ_LEVEL_2: 13
FUNC_EDGE_BW_SAME_LEVEL: 60000
FUNC_EDGE_BW_ADJ_LEVEL: 60000
FUNC_EDGE_BW_NON_ADJ_LEVEL_1: 60000
FUNC_EDGE_BW_NON_ADJ_LEVEL_2: 60000
NUMBER_OF_APPS: 20
FUNC_APP_GENERATION: nx.gn_graph(4)
FUNC_APP_DEADLINES: 80000
FUNC_SERVICE_RESOURCES: 3
FUNC_SERVICEINSTR: 40000
FUNC_SERVICEMESSAGESIZE: 3000000
FUNC_REQUESTPROB: 0.2
FUNC_USERREQRAT: 600
```

Service Placement Summary:

Distribution of resource usage

Percentage of resource usage per level over the total

Level	Percentage
cloud	0.00039000
fog T4	10.71428571
fog T3	9.14127424
fog T2	17.64705882
fog T1	20.240963
gways	0.00000000

Percentage of service placed per level

Level	Percentage
cloud	5.53191489
fog T4	15.31914894
fog T3	14.04255319
fog T2	29.36170213
fog T1	35.7446808
gways	0.00000000

App successfully placed: 61
App to be placed: 80