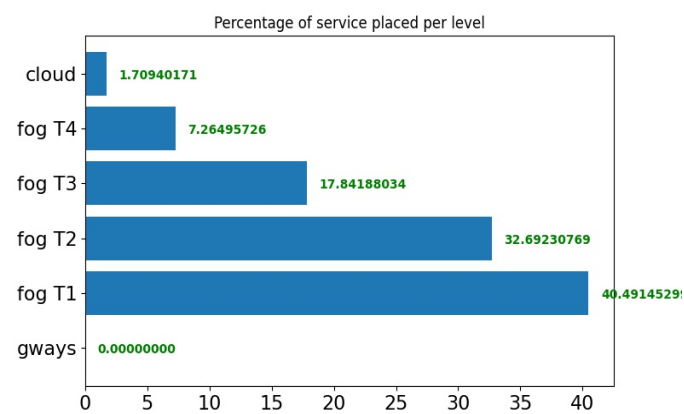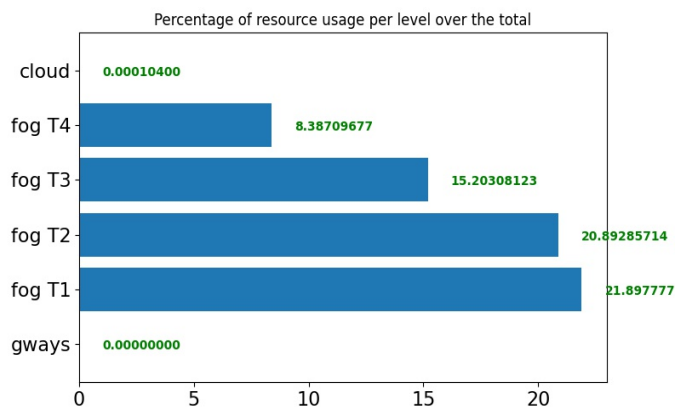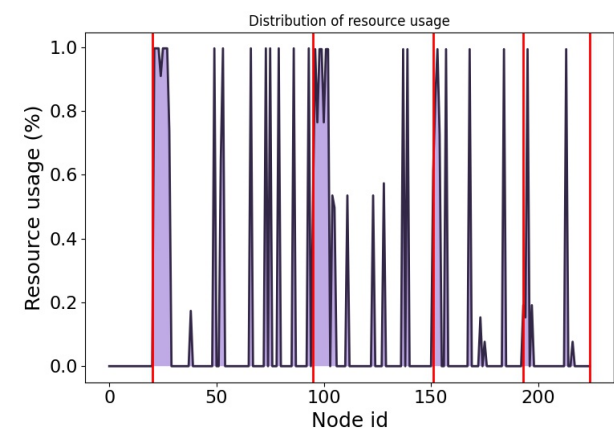# Simulation - 18/09/2021 16:43:33

Experiment Configuration:

Description: Increasing number of services with fixed global resources.

```
IOT_DEVICES_NUM: 100
NETWORK_LEVELS_NUM: 7
REDUCTION_FACTOR_1: 5
LINK_GENERATION_PROBABILITY_FOG0: 0
REDUCTION_FACTOR_2: 1.3333333333333333
HUB_GENERATION_PROBABILITY: 0.1
ALL_TO_CLOUD: False
MIN_CONN_TO_UPPER_LEVELS: 10
MAX_CONN_TO_UPPER_LEVELS: 20
PRIVACY_ASSIGNEMENT: random.randrange(0,100) <= 70
FUNC_NODE_RAM_FOG0: 15
FUNC_NODE_RAM_FOG1: 17
FUNC_NODE_RAM_FOG2: 17
FUNC_NODE_RAM_FOG3: 17
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(20)
FUNC_APP_DEADLINES: 80000
FUNC_SERVICE_RESOURCES: 0.65
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	Value
cloud	0.00010400
fog T4	8.38709677
fog T3	15.20308123
fog T2	20.89285714
fog T1	21.897777
gways	0.00000000

Percentage of service placed per level

Level	Value
cloud	1.70940171
fog T4	7.26495726
fog T3	17.84188034
fog T2	32.69230769
fog T1	40.4914529
gways	0.00000000

App successfully placed: 50

App to be placed: 80