

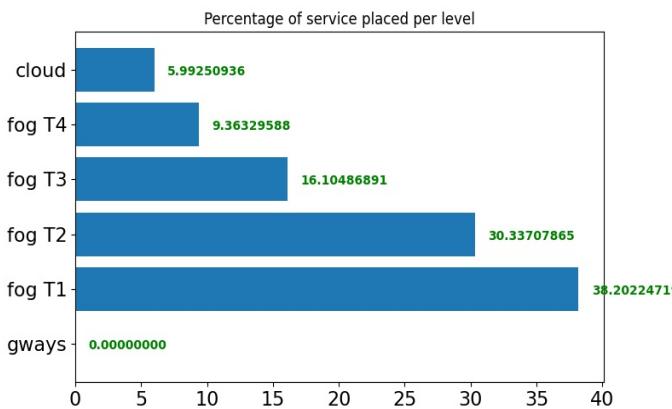
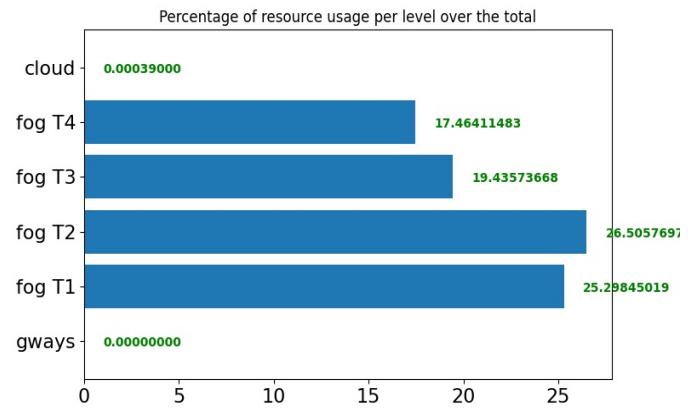
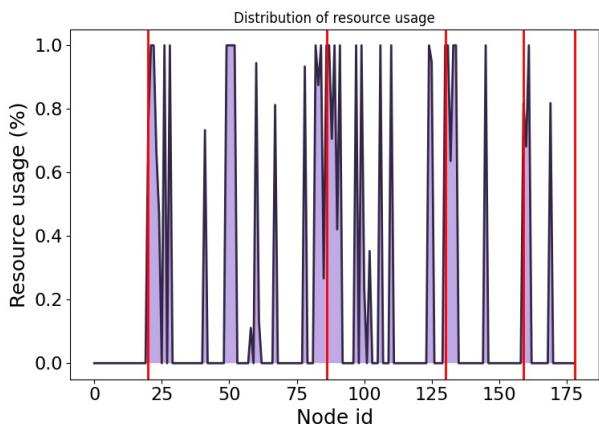
Simulation - 25/06/2021 16:33:04

Experiment Configuration:

Description: High number of apps and low probability of hub generation in upper levels

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IOT_DEVICES_NUM: 100
NETWORK_LEVELS_NUM: 7
REDUCTION_FACTOR_1: 5
LINK_GENERATION_PROBABILITY_FOG0: 0
REDUCTION_FACTOR_2: 1.5
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) <= 20
FUNC_NODE_RAM_FOG0: random.randrange(15, 19)
FUNC_NODE_RAM_FOG1: random.randrange(17, 21)
FUNC_NODE_RAM_FOG2: random.randrange(19, 23)
FUNC_NODE_RAM_FOG3: random.randrange(21, 25)
FUNC_NODE_RAM_CLOUD: 9999999
FUNC_NODE_IPT_FOG0: random.randrange(200, 700)
FUNC_NODE_IPT_FOG1: random.randrange(300, 800)
FUNC_NODE_IPT_FOG2: random.randrange(400, 900)
FUNC_NODE_IPT_FOG3: random.randrange(500, 1000)
FUNC_NODE_IPT_CLOUD: 9999
FUNC_EDGE_PR_SAME_LEVEL: random.randrange(5, 30)
FUNC_EDGE_PR_ADJ_LEVEL: random.randrange(5, 10)
FUNC_EDGE_PR_NON_ADJ_LEVEL_1: random.randrange(7, 12)
FUNC_EDGE_PR_NON_ADJ_LEVEL_2: random.randrange(9, 15)
FUNC_EDGE_BW_SAME_LEVEL: random.randrange(50000, 75000)
FUNC_EDGE_BW_ADJ_LEVEL: random.randrange(50000, 75000)
FUNC_EDGE_BW_NON_ADJ_LEVEL_1: random.randrange(50000, 75000)
FUNC_EDGE_BW_NON_ADJ_LEVEL_2: random.randrange(50000, 75000)
NUMBER_OF_APPS: 40
FUNC_APP_GENERATION: nx.gn_graph(random.randint(2,7))
FUNC_APP_DEADLINES: random.randint(1000, 150000)
FUNC_SERVICE_RESOURCES: random.randint(1,4)
FUNC_SERVICEINSTR: random.randint(20000,60000)
FUNC_SERVICEMESSAGESIZE: random.randint(1500000,4500000)
FUNC_USERREQRAT: random.randint(200,1000)
FUNC_REQUESTPROB: 0.2
```

Service Placement Summary:



App successfully placed: 73

App to be placed: 154

Simulation Result Plot:

