Production Supporting Systems in Factories

ระบบสนับสนุนการผลิตในโรงงานอุตสาหกรรม

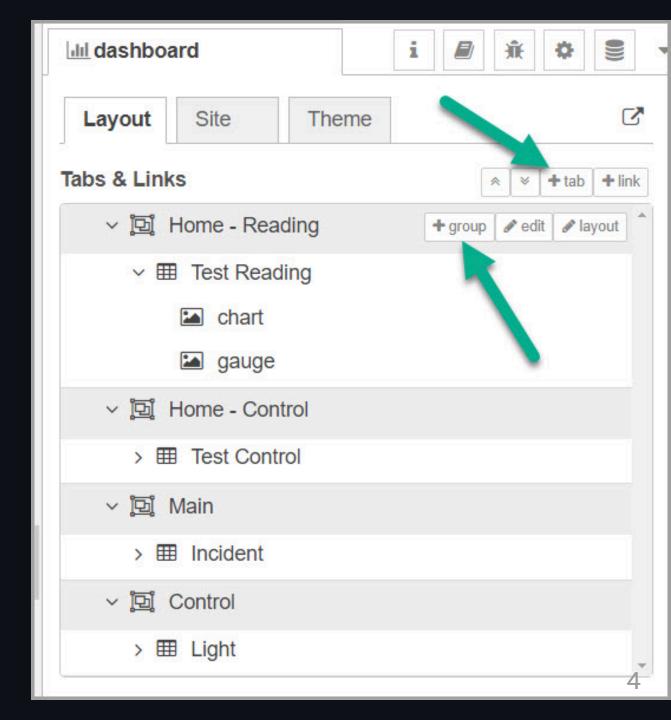
Dashboard

Display

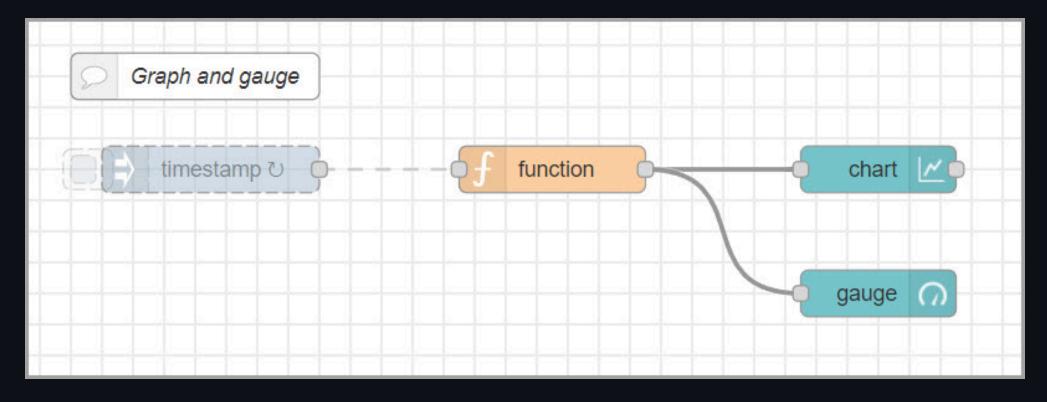
Installation

pnpm install node-red-dashboard

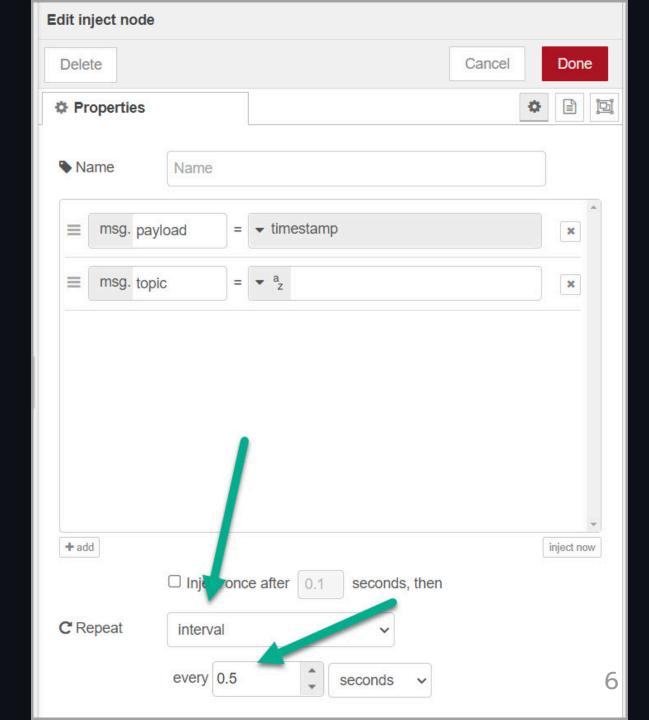
- Go to Dashboard tab
- Click + tab
 - Edit tab information
- Click + group
 - Edit group information



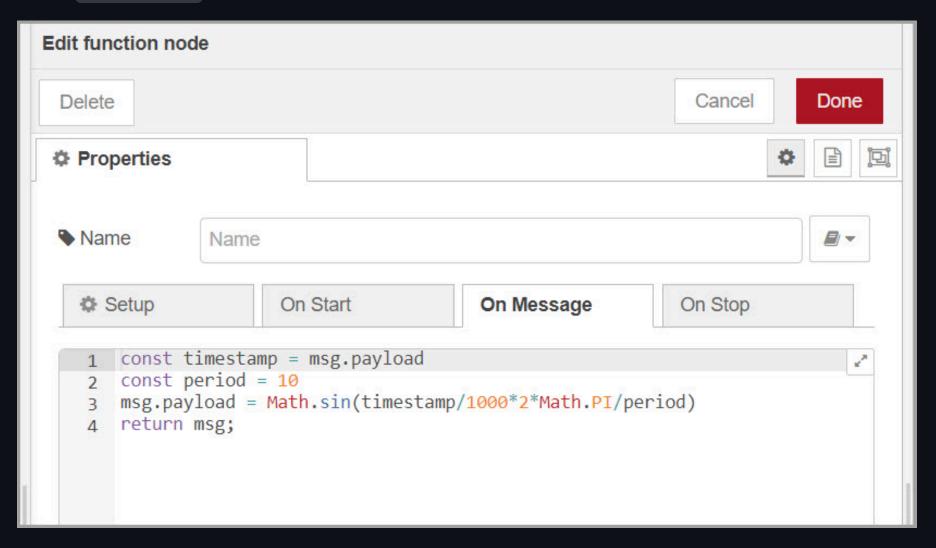
- Flow
 - inject , function , chart , gauge



• inject node

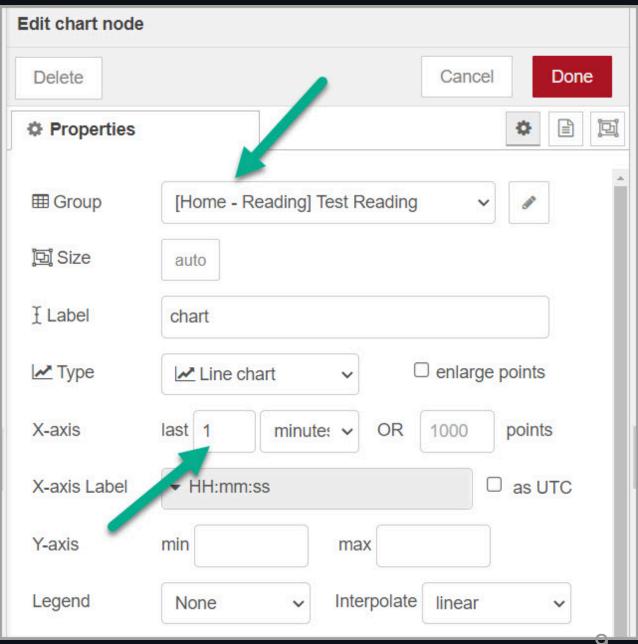


function node (code on the next page)

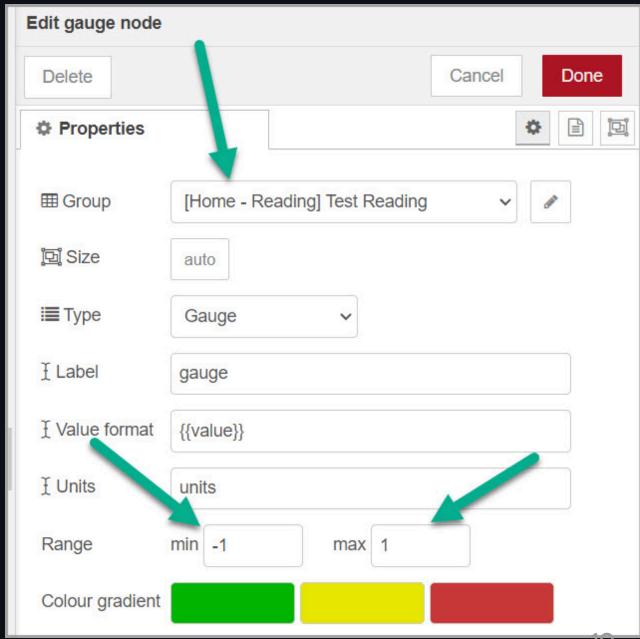


```
const timestamp = msg.payload;
const period = 10;
msg.payload = Math.sin(((timestamp / 1000) * 2 * Math.PI) / period);
return msg;
```

• chart node



gauge node

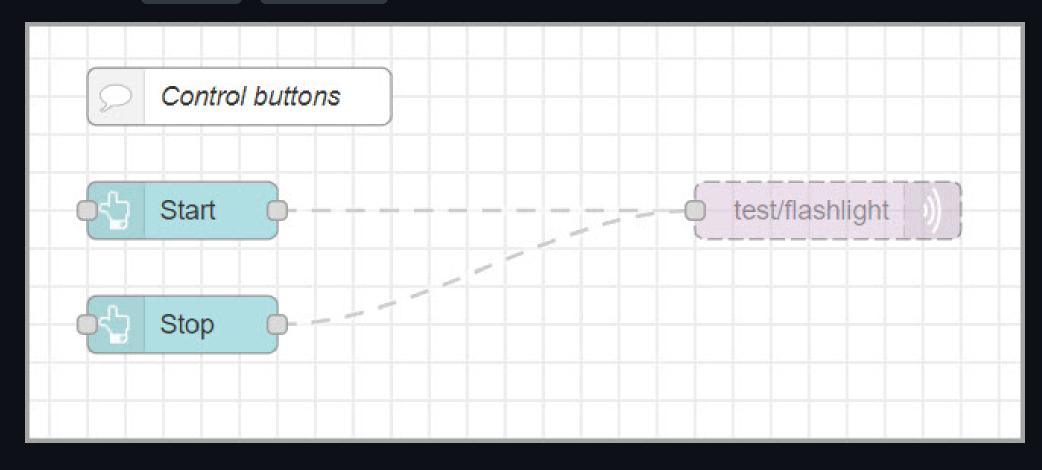


Dashboard

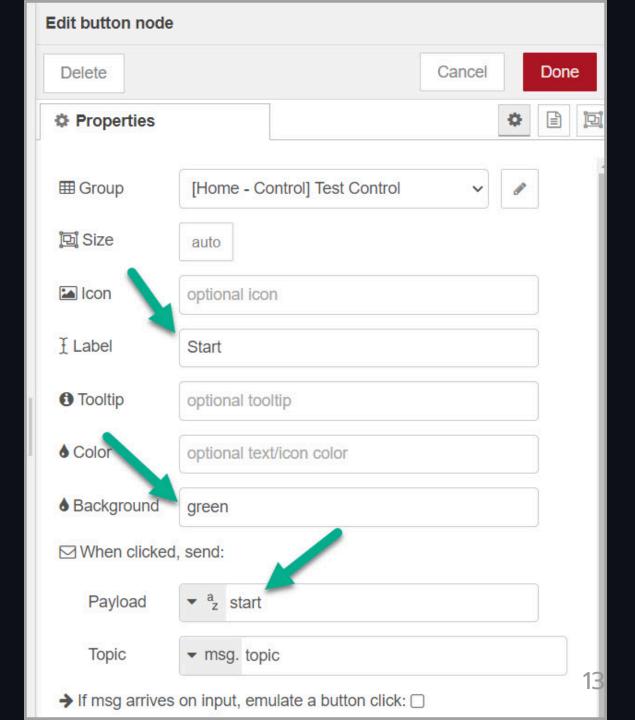
Control

• Flow

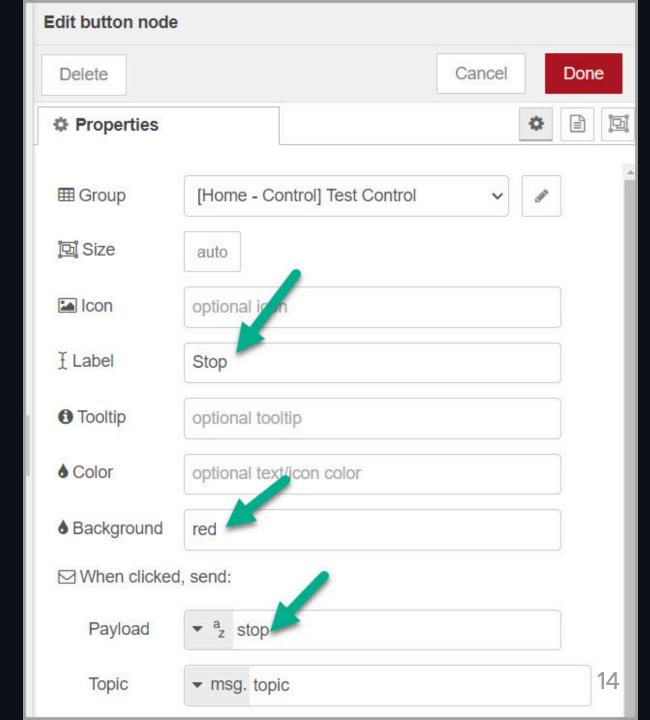
o button , mqtt out



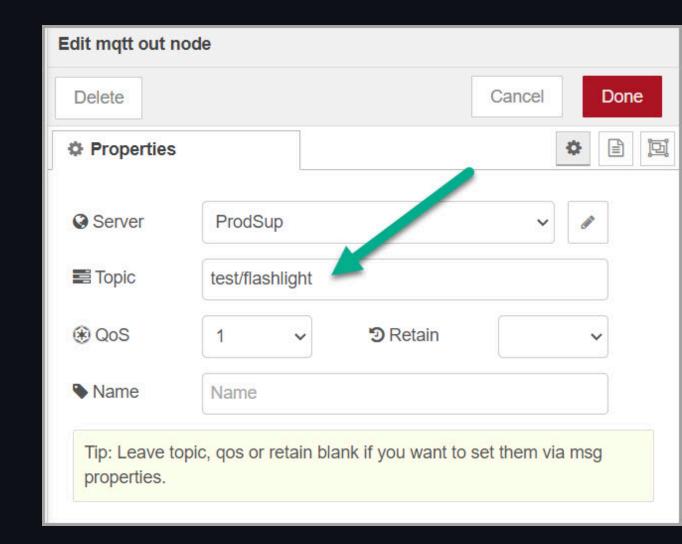
button Start



button Stop

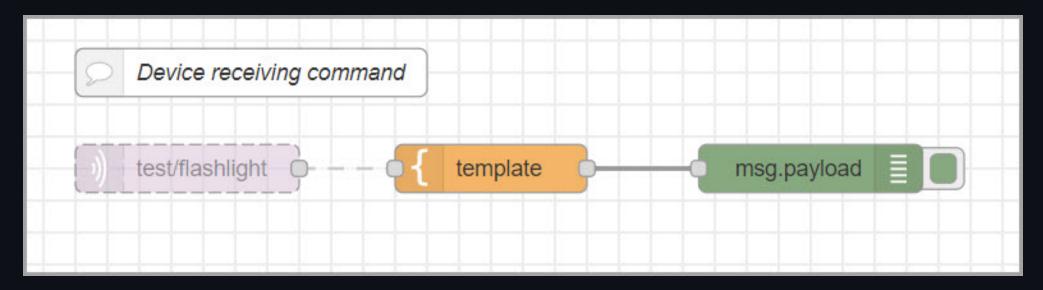


• matt out node

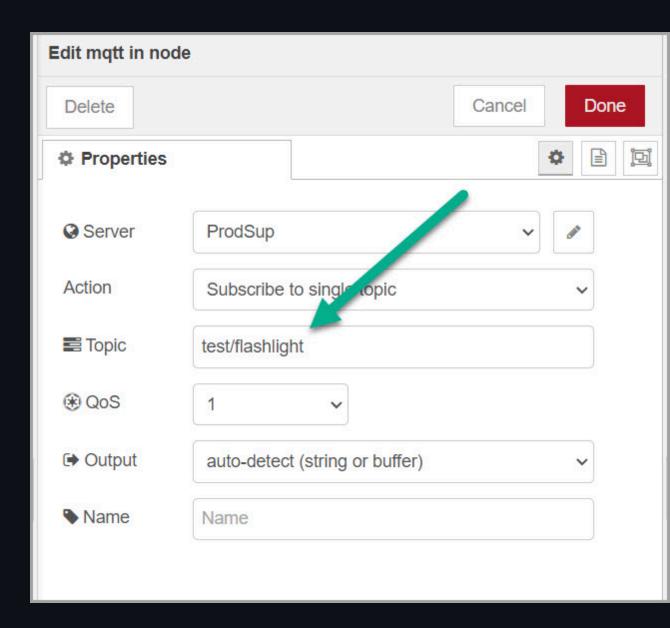


• flow

o mqtt in , template , debug



• mqtt in node



template node

