

Production Supporting Systems in Factories

ระบบสนับสนุนการผลิตในโรงงานอุตสาหกรรม

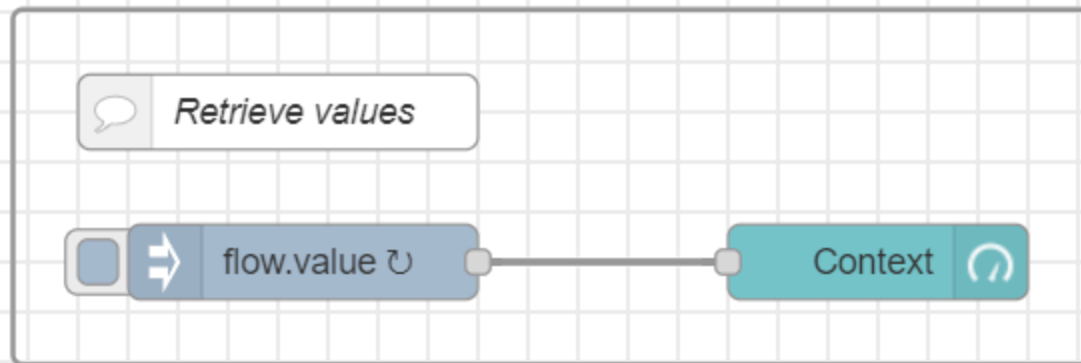
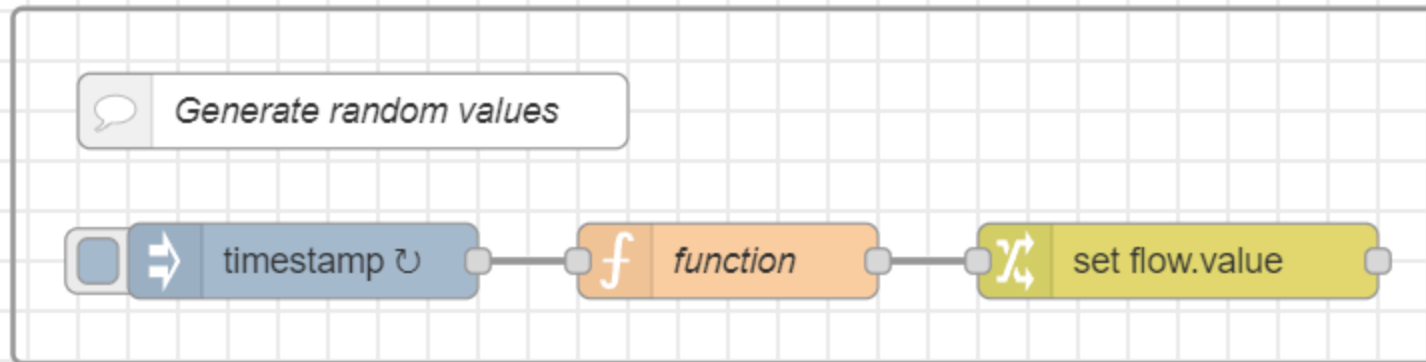
Context

Scope

The `scope` of a particular context value.

- `Node` - only visible to the node that set the value
- `Flow` - visible to all nodes on the same flow (or tab in the editor)
- `Global` - visible to all nodes

Use `flow` context to pass values



Upper inject node

Edit inject node

Delete Cancel Done

⚙ Properties

📌 Name Name

msg. payload = timestamp

msg. topic = a_z

+ add inject now

☐ Inject once after 0.1 seconds, then

🔄 Repeat interval

every 1 seconds

📄 ☐ Enabled

function node

```
msg.payload = Math.random();  
return msg;
```

change node

Edit change node

Delete

Cancel

Done

⚙️ Properties

⚙️

📄

🔗

🏷️ Name

Name

☰ Rules

Set

▼

▼ flow. value

☰

to the value

▼ msg. payload

✕

☐ Deep copy value

+ add

📄

☐ Enabled

Lower inject node

Edit inject node

Delete Cancel Done

Properties

Name

☐ msg. payload =

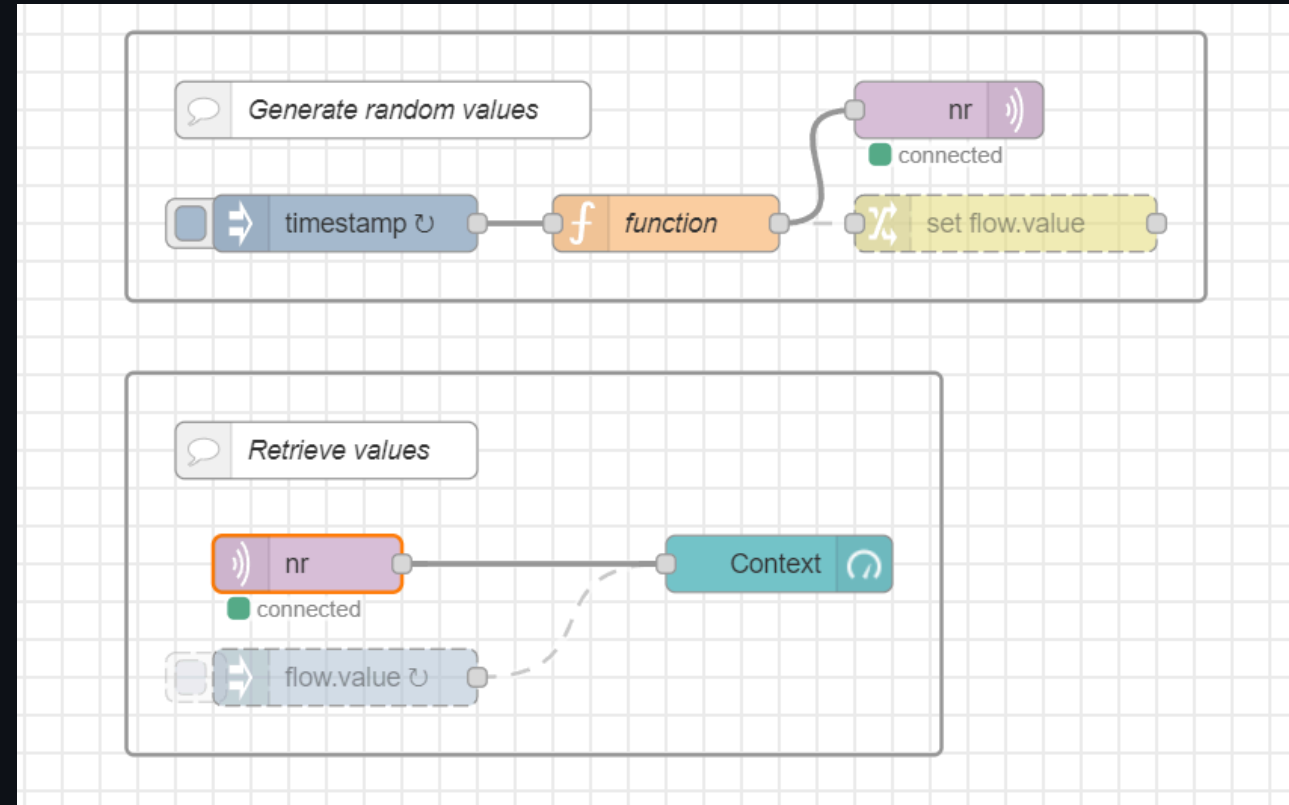
☐ msg. topic =

☐ Inject once after seconds, then

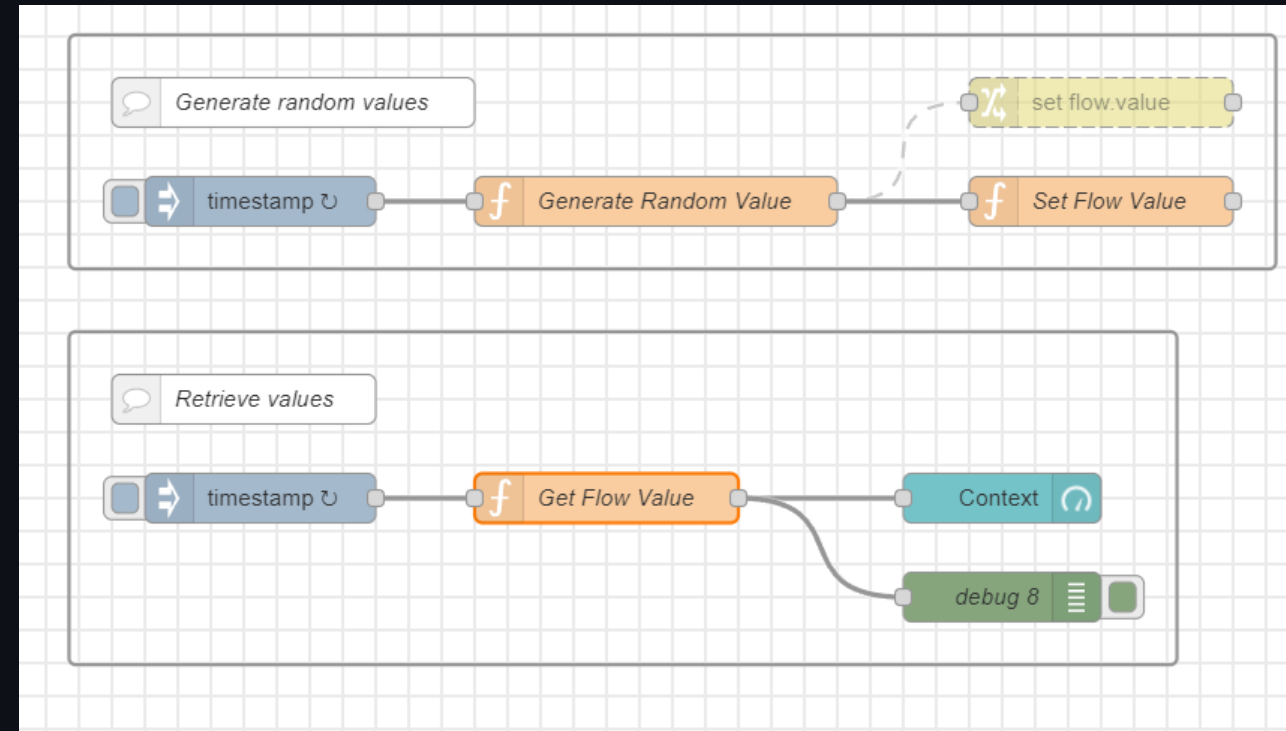
every

Side note

- You can use MQTT protocol to pass "context" information.
 - This is actually a better way.



Using code



Set Flow Value node

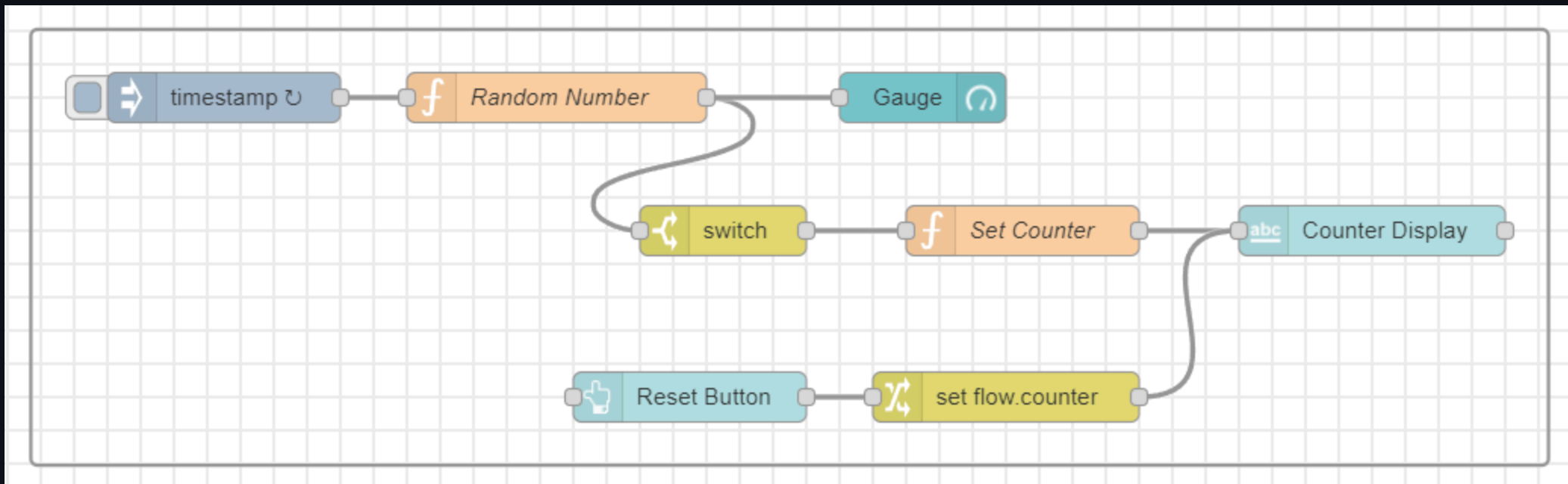
```
flow.set("value", msg.payload);
```

Get Flow Value node

```
const value = flow.get("value") || 0;  
msg.payload = value;  
return msg;
```

Counter with reset button

Flow



Random Number (function) node

```
msg.payload = Math.random();  
return msg;
```

Switch node

Edit switch node

Delete

Cancel

Done

⚙ Properties

⚙ 📄 🖨

📌 Name

Name

⋮ Property

▼ msg. payload

☰ >= ▼ ▼ 0₉ 0.5 → 1 ✕

+ add

checking all rules ▼

☐ recreate message sequences

📄 ☐ Enabled

Set Counter (Function) node

```
const curCounter = flow.get("counter") || 0;  
flow.set("counter", curCounter + 1);  
msg.payload = curCounter + 1;  
return msg;
```

button node

Edit button node

Delete Cancel Done

⚙ Properties

Group [Context] Group 1

Size auto

Icon optional icon

Label Reset Button

Tooltip optional tooltip

Color optional text/icon color

Background optional background color

☒ When clicked, send:

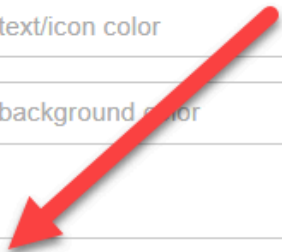
Payload

Topic

→ If msg arrives on input, emulate a button click: ☐

</> Class Optional CSS class name(s) for widget

Name Name



change node

Edit change node

Delete Cancel Done

⚙ Properties

🏷 Name

☰ Rules

Set ▼

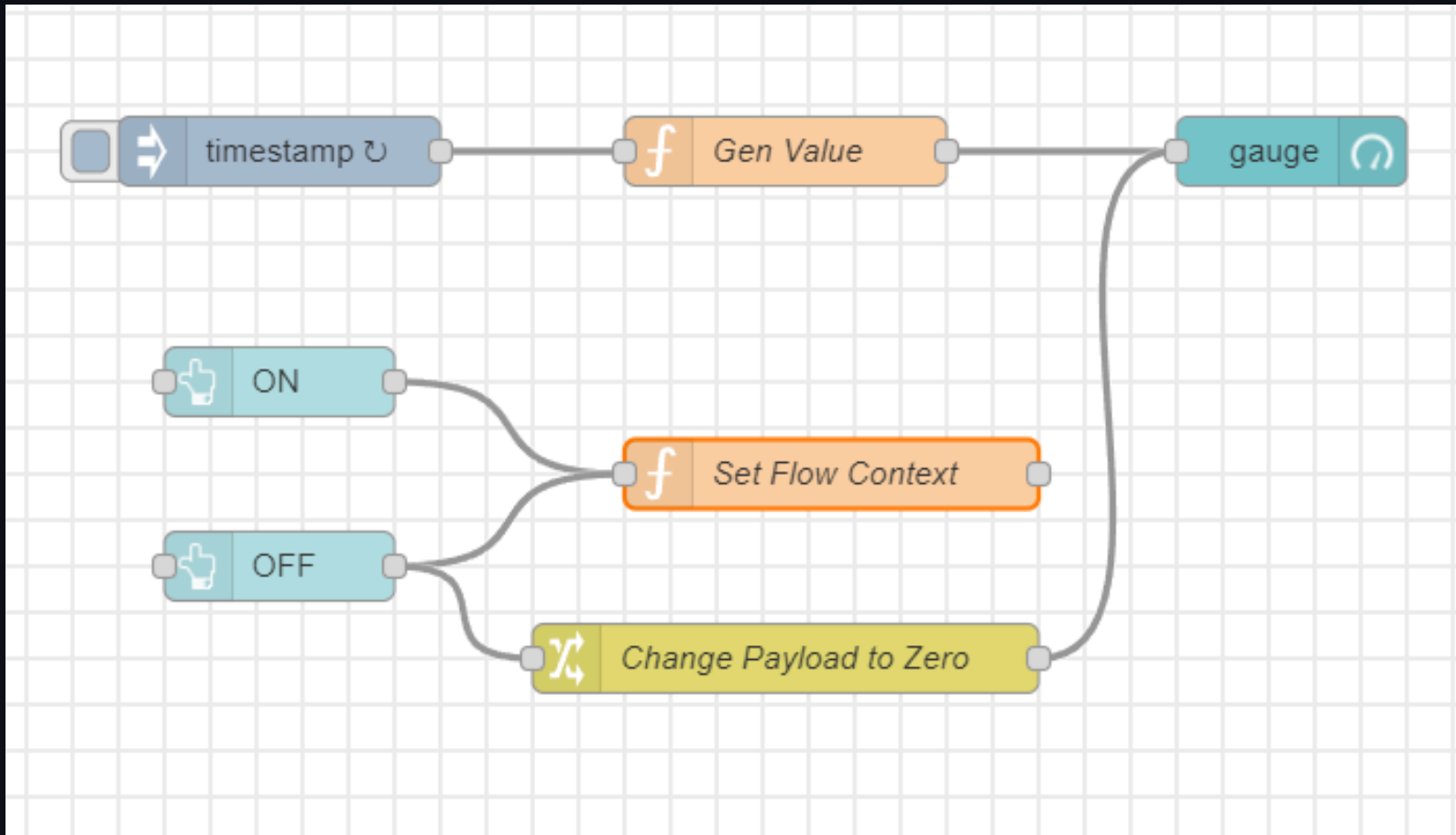
▼ flow. counter

to the value ▼ msg. payload ✕

☐ Deep copy value

Turning sensor display on and off

Flow



Gen Value node

- Testing

```
msg.payload = Math.random();  
return msg;
```

- Actual

```
const status = flow.get("status") || "OFF";  
if (status === "ON") {  
  msg.payload = Math.random();  
  return msg;  
} else {  
  // Do nothing for now.  
}
```

ON button

Edit button node

Delete Cancel Done

⚙ Properties

Group [ON OFF] Group 1

Size auto

Icon optional icon

Label ON

Tooltip optional tooltip

Color optional text/icon color

Background green

When clicked, send:

Payload

Topic

→ If msg arrives on input, emulate a button click: ☐

Class

Name

OFF button

Edit button node

Delete Cancel Done

Properties

Group [ON OFF] Group 1

Size auto

Icon optional icon

Label OFF

Tooltip optional tooltip

Color optional text/icon color

Background red

When clicked, send:

Payload a_z OFF

Topic msg. topic

→ If msg arrives on input, emulate a button click: ☐

Class Optional CSS class name(s) for widget

Name Name

Change node

Edit change node

Delete Cancel Done

Properties

Name Change Payload to Zero

Rules

Set ▼ msg. payload

to the value ▼ 0₉ 0

