

Maps

Maps

Maps

# See - Do

- Maps – what can you do
- Maps – how can you do it

**SEE SEE**

Happy Mappy



I am an image

Happy Mappy



I am a trigger  
OK



I am a trigger  
**PROBLEM**

Happy Mappy

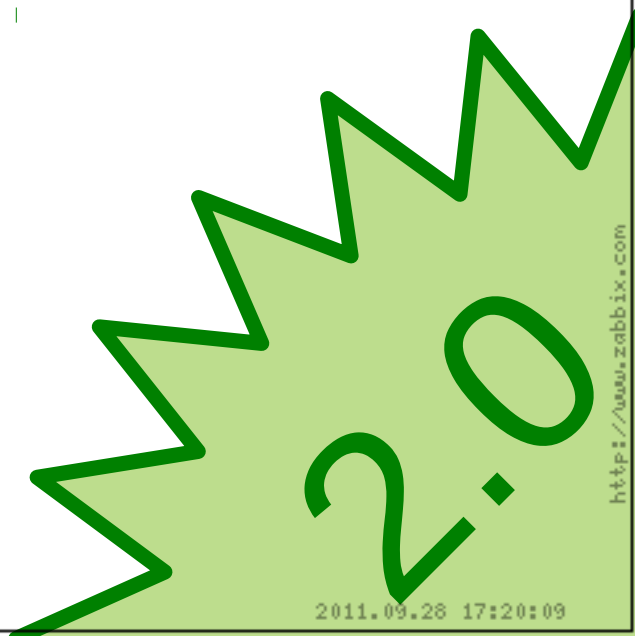


Zabbix server  
4 Problems

Happy Mappy



Linux servers  
OK







Rīga  
4 Problems

Latvia



Rīga  
4 Problems

# Custom icon...

- custom icon for all 5 types



...that changes





# Icon highlighting, change marking



Not classified  
PROBLEM



Information  
PROBLEM



Warning  
PROBLEM



Average  
PROBLEM



High  
PROBLEM



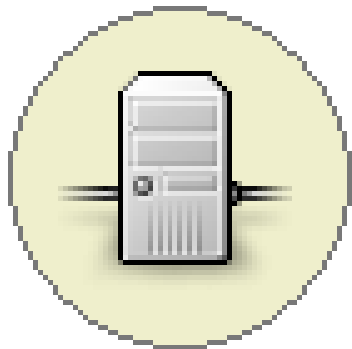
Disaster  
PROBLEM

Those labels have type



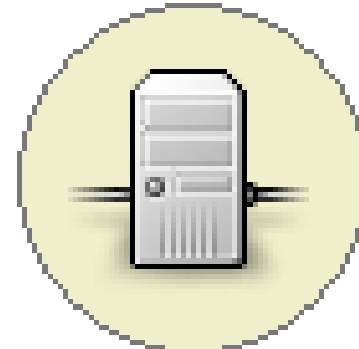
# Label "Label"

- **OK/PROBLEM**
- Problem (trigger) name or "1 problem"



Zabbix server

Some items are not supported

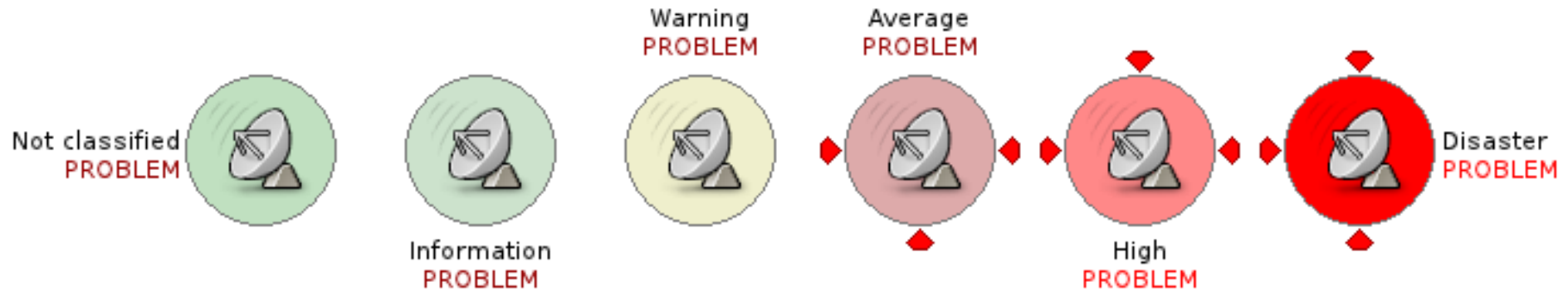


Zabbix server

1 Problem



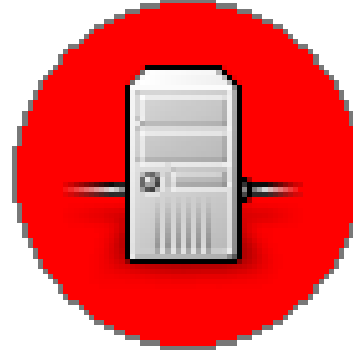
# Label location



# Acknowledge status



Zabbix server  
6 Problems

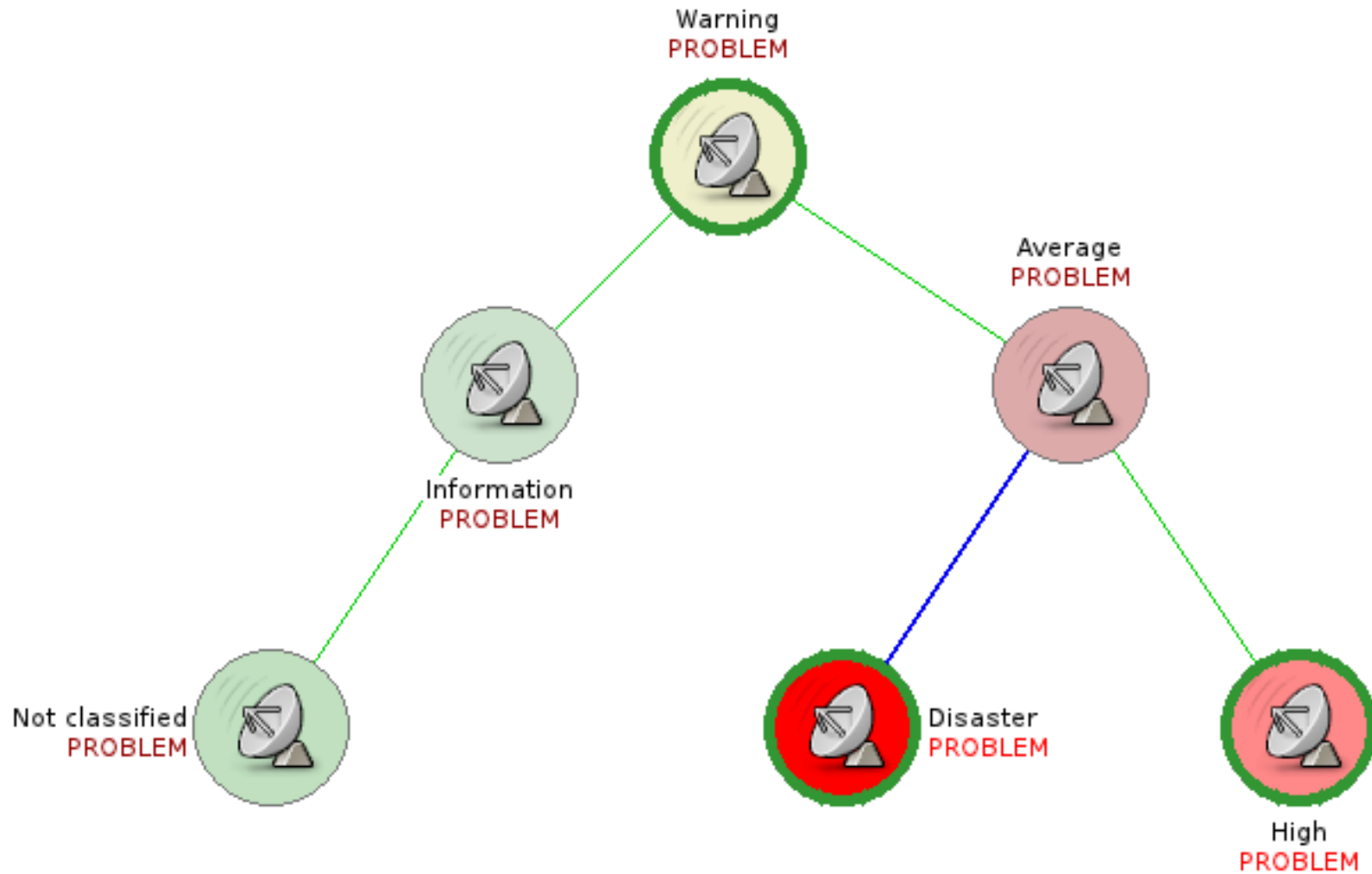


Zabbix server  
3 Unacknowledged

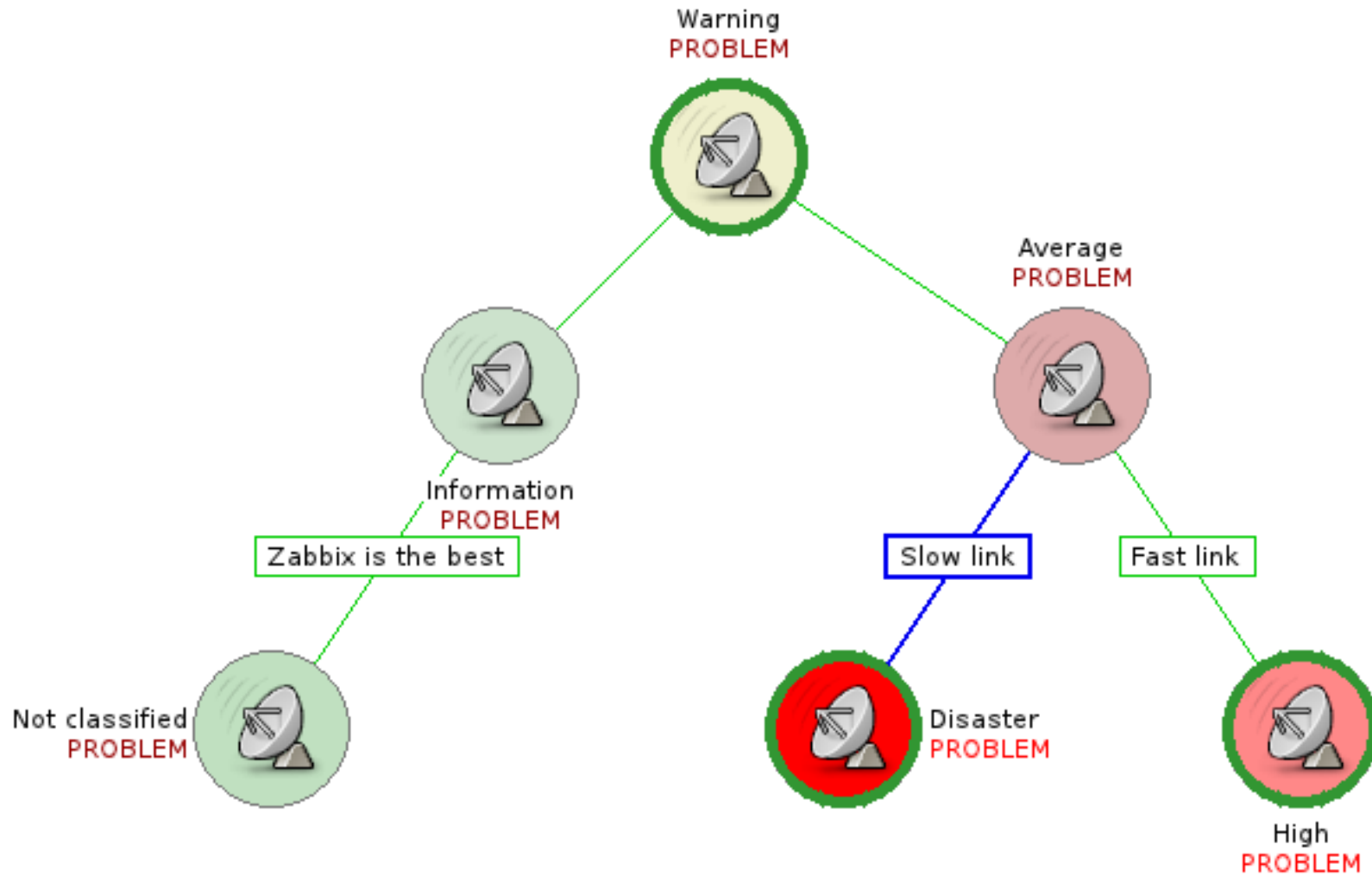


Zabbix server  
6 Problems  
3 Unacknowledged

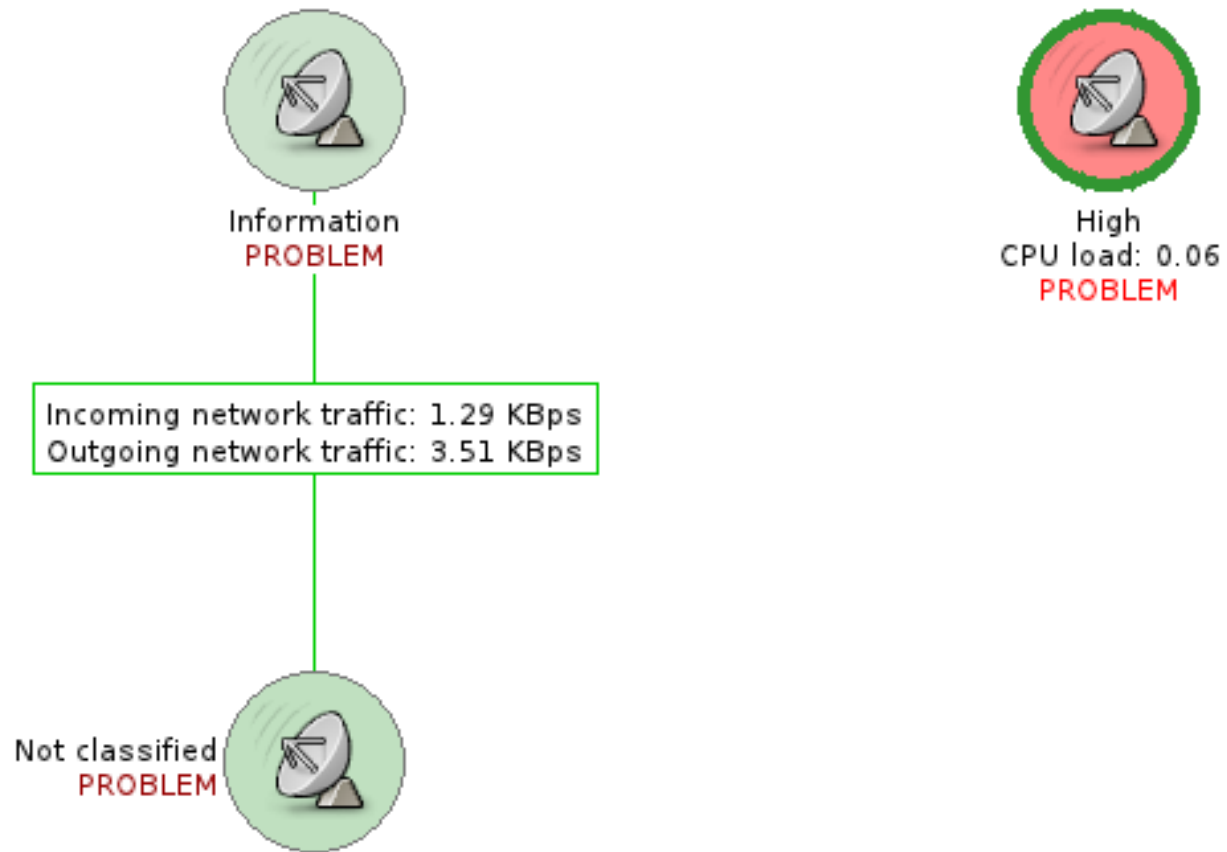
# Links between elements



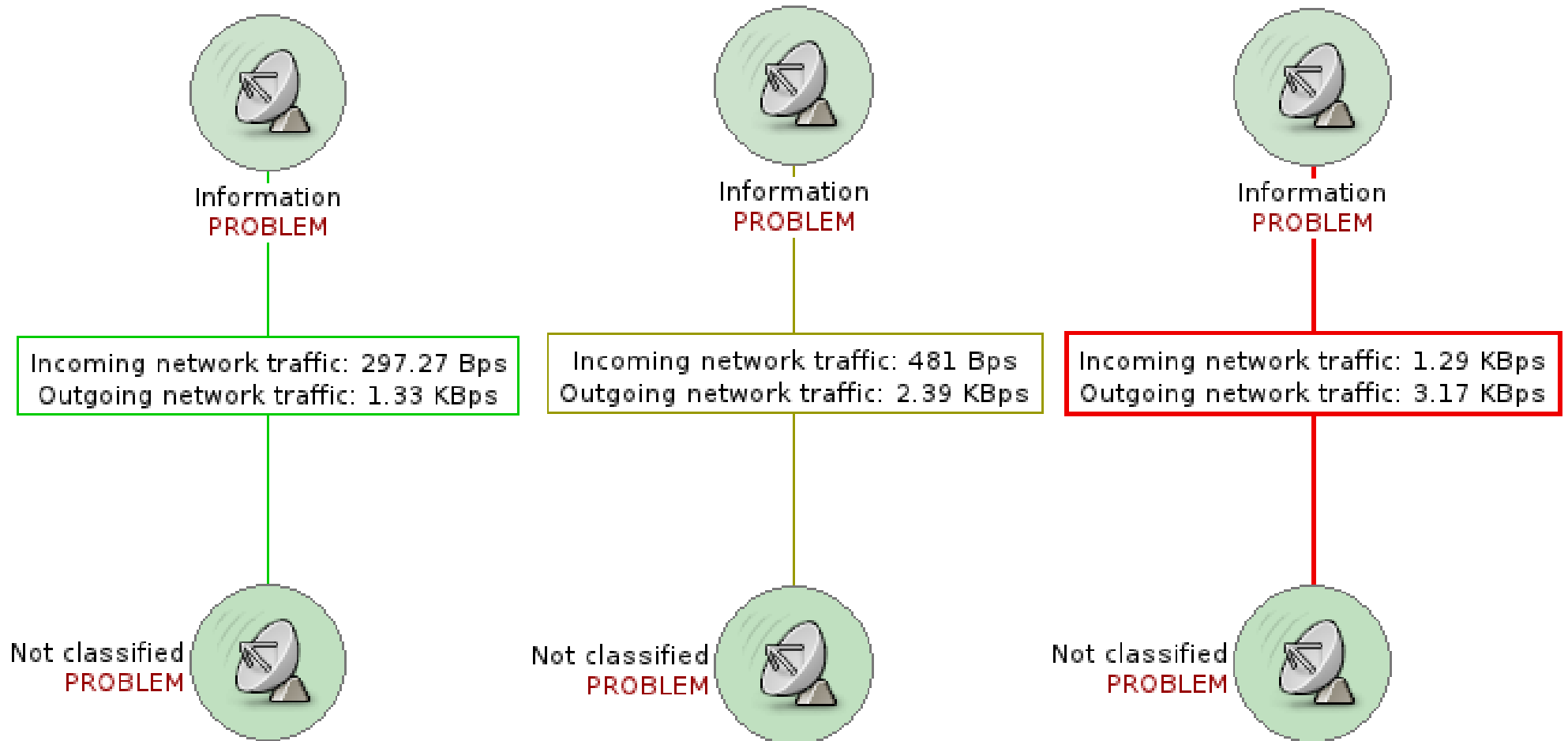
# Labels on links



# Display realtime data



# Link indicators



# Global scripts

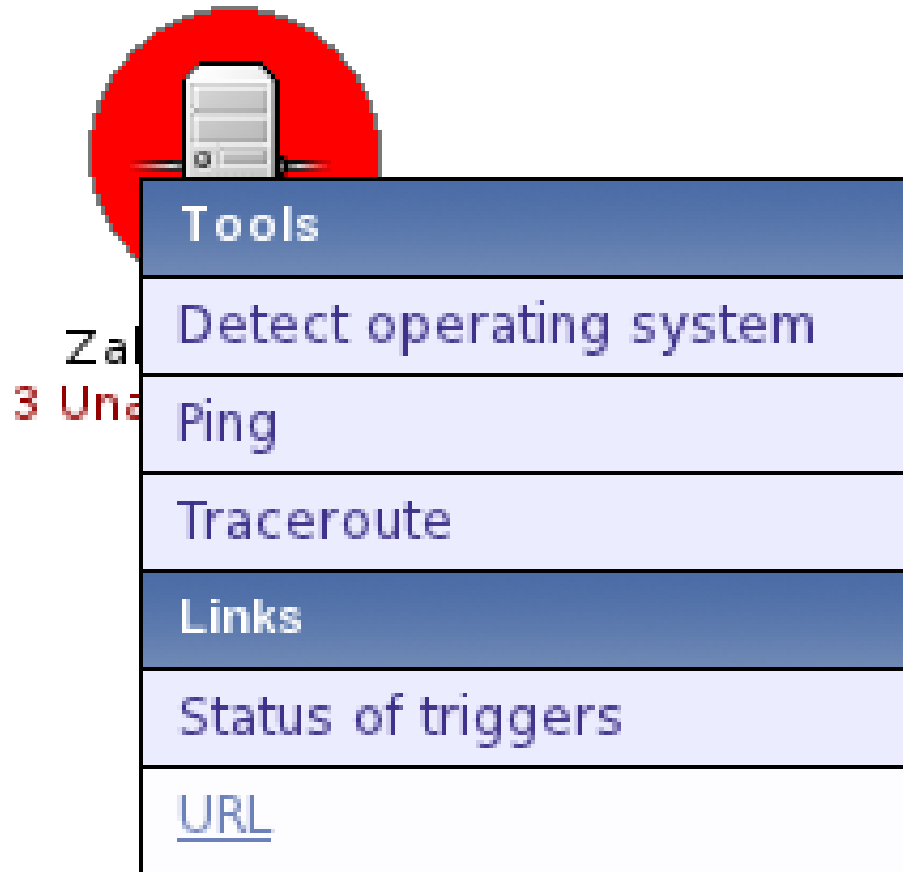


Zak  
3 Un

Tools
Detect operating system
Ping
Traceroute
Links
Status of triggers

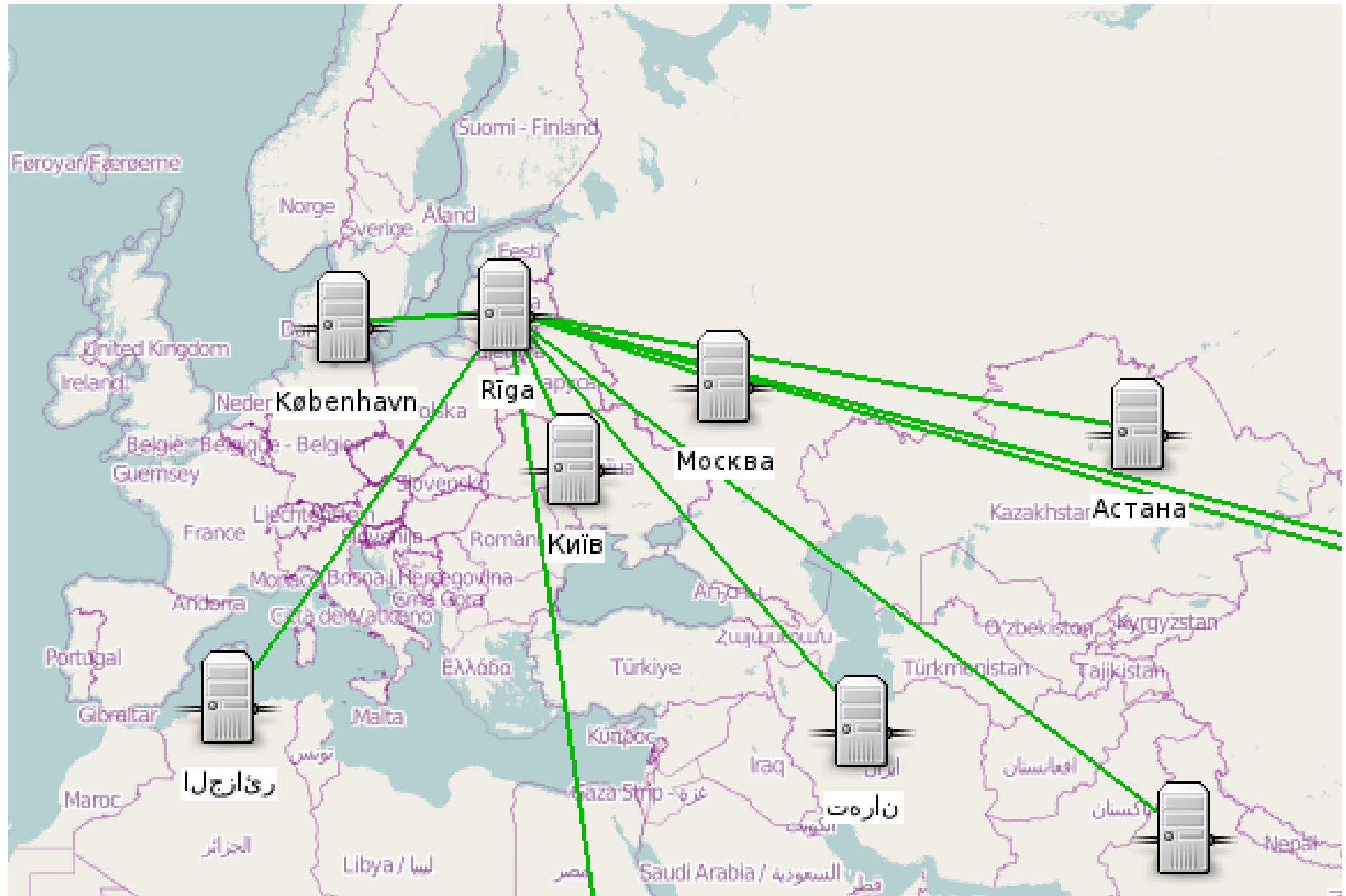
2.0

# Built-in and custom URLs





# Background



# Timestamped



DO

permissions -

**ALL**

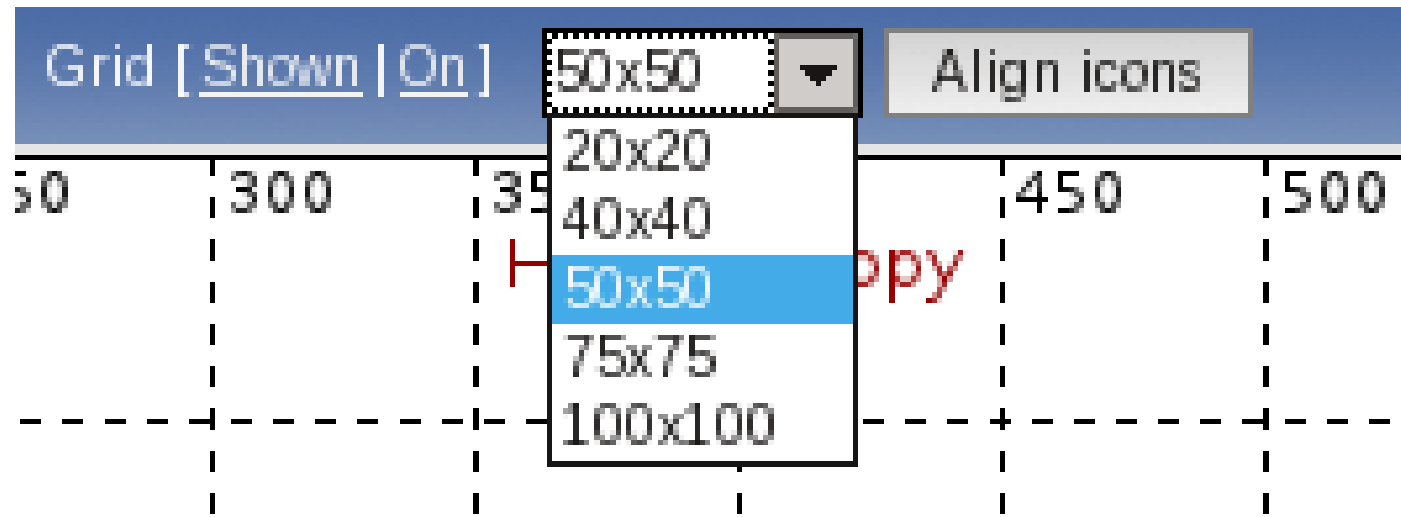
OR

**NOTHING**

Drag

drop

# Grid



2.0

# Element editing

100 150 200 250 300 350 400 450 500 550 600 650  
Happy Mappy

### Edit map element

Type:

Label:

Label location:

Host:  [Select](#)


Icon (default):

Use advanced icons:

Coordinate X:

Coordinate Y:

URL:



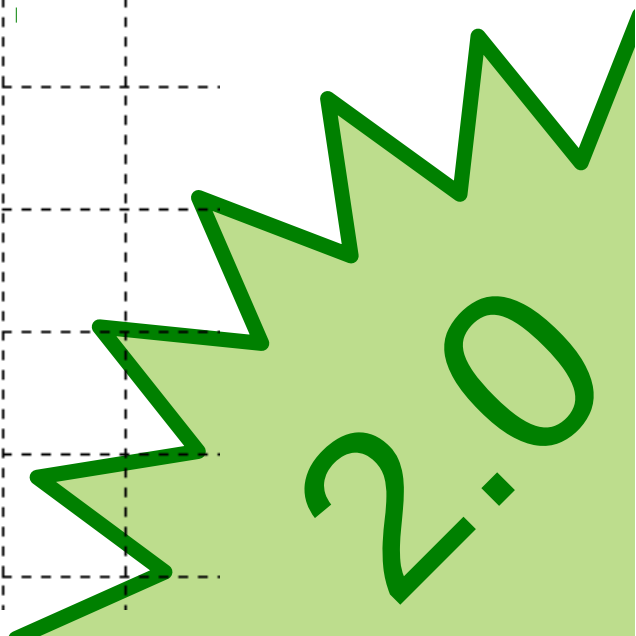
Zabbix server  
2 Unacknowledged

### Map elements

Label	Type	Description
Zabbix server	Host	Zabbix server

### Connectors

Link	Element 1	Element 2	Link status indicator
No links			



# Multiple element editing

100 150 200 250 300 350 400 450 500 550 600 650

Happy Mappy

### Edit map element

Label

Label location

Icon (default) Hub

Use advanced icons

Icon (problem) Default

Icon (unknown) Default

Icon (maintenance) Default

Icon (disabled) Default

URL


Apply Remove Close

### Map elements


Label	Type	Description
Zabbix server	Host	Zabbix server
High	Trigger	Syslogd is not running on Zabbix server 2

### Connectors

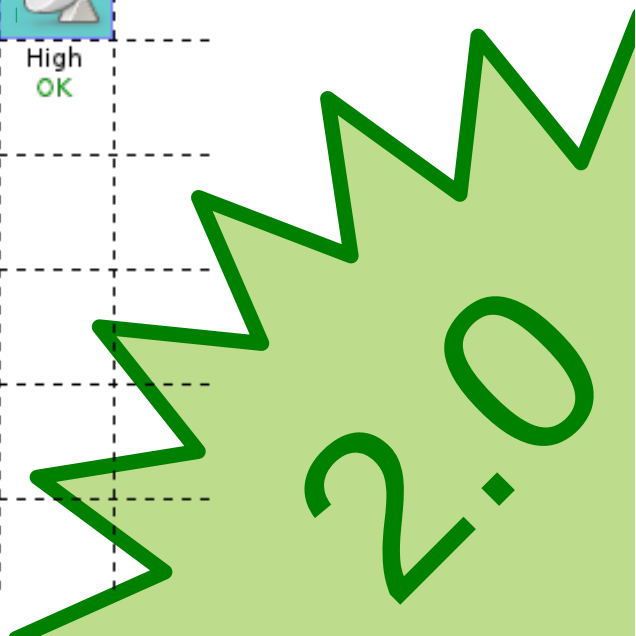
Link	Element 1	Element 2	Link status indicator
No links			



Zabbix server  
2 Unacknowledged



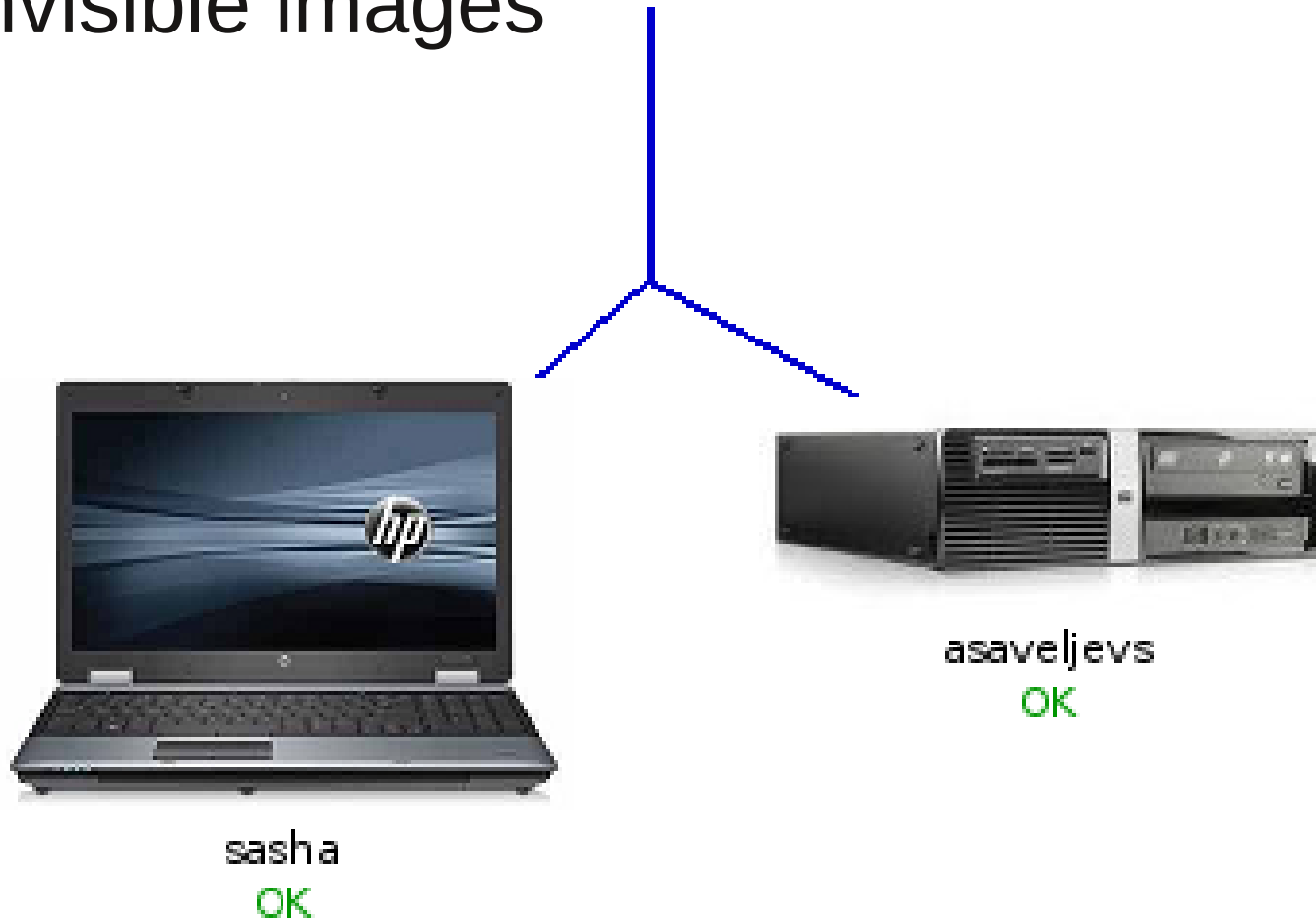
High  
OK





# Routed and branching links

- Use invisible images



# Macro-variables

- Can be used both in element and link labels
- `{HOSTNAME}`
- `{Server:system.cpu.load.last(0)}`
- `{{HOSTNAME}:system.cpu.load.last(0)}`
- `last()`, `min()`, `max()`, `avg()`

SAVE THE MAP

# Custom images

- Icons & background images
- *Administration -> General -> Images*
- [www.osm.org](http://www.osm.org) ← the best

# XML

- Backup purposes
- Generate maps externally

# XML – image import

- XML may contain icons & backgrounds
- base64

# API

```
{
  "jsonrpc": "2.0",
  "method": "map.create",
  "params": [{
    "selements": [{
      "elementid": "0",
      "elementtype": "4",
      "iconid_off": "100100000000036",
      "iconid_on": "0",
      "iconid_unknown": "0",
      "label": "New element",
      "label_location": "0",
      "x": "200",
      "y": "100",
      "url": "",
      "iconid_disabled": "0",
      "iconid_maintenance": "0"
    }
  ]
},
  "name": "ZABBIX-Map",
  "width": "800",
  "height": "600",
  "backgroundid": "0",
  "label_type": "0",
  "label_location": "0",
  "highlight": 0,
  "expandproblem": 0,
  "markelements": 0,
  "show_unack": 0
}],
  "auth":
  "038e1d7b1735c6a5436ee9eae095879e",
  "id": 2
}
```

# Selecting a map in the URL

- Usual way – refer by ID
  - `maps.php?sysmapid=13`
- “**mapname**” – refer by name
  - `maps.php?mapname=Happy%20Mappy`



Happy mapping  
(got your own hints ?)