



MEETUP ONLINE '21

CORRELATION BETWEEN DEVICES ACROSS CLIENT SITE

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ZABBIX

A PROPERTY

Can be:

a building,

a block,

Owens a

firewall and **core switch**

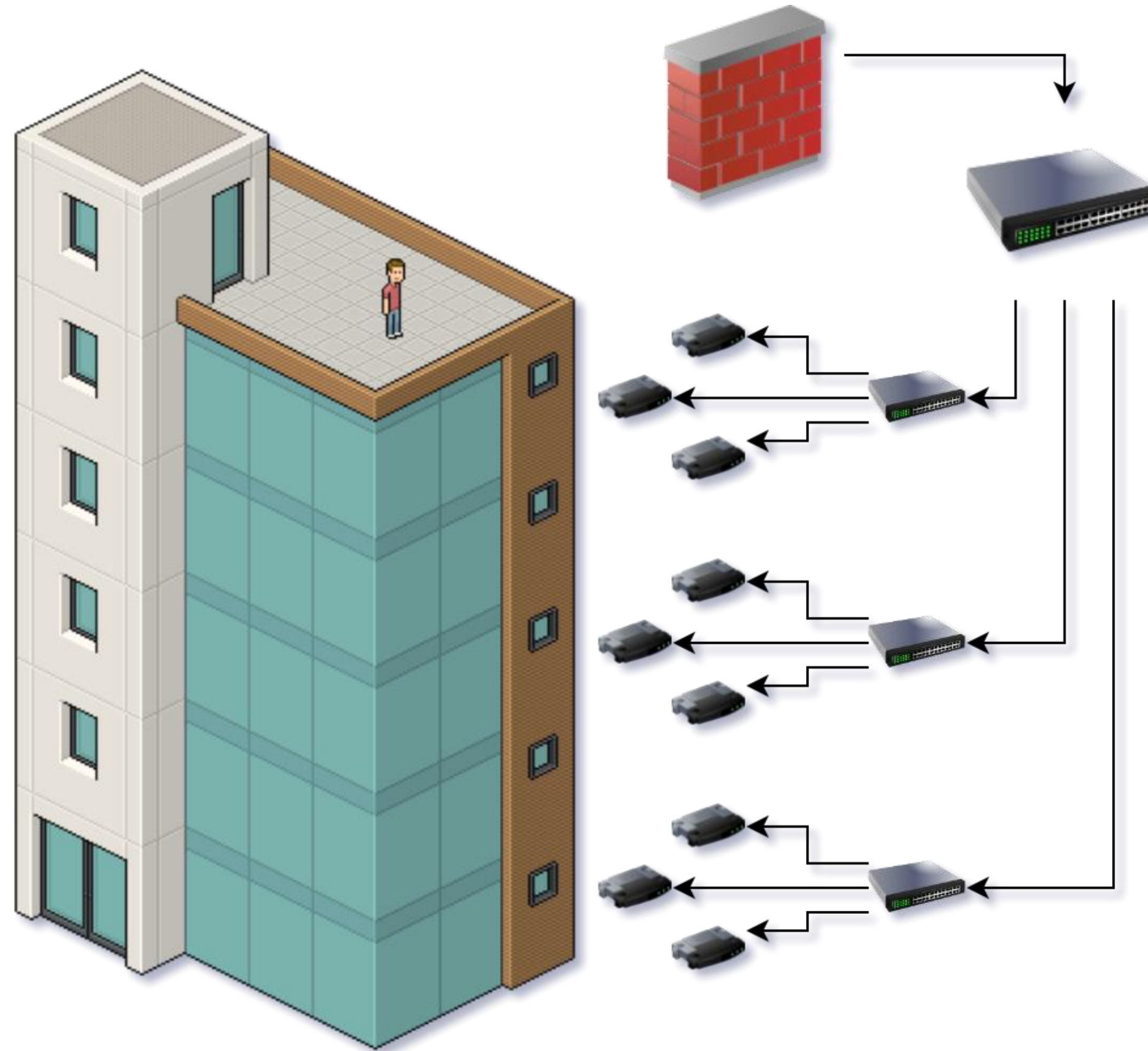
Building can have:

multiple floors.

Owens an **edge switch**

Each floor can have sections.

A section can have a **router**



VISION

When something goes off, I want to see: «**what's the damage**».

For example:

2 edge switches down

Core switch is down

15 routers down

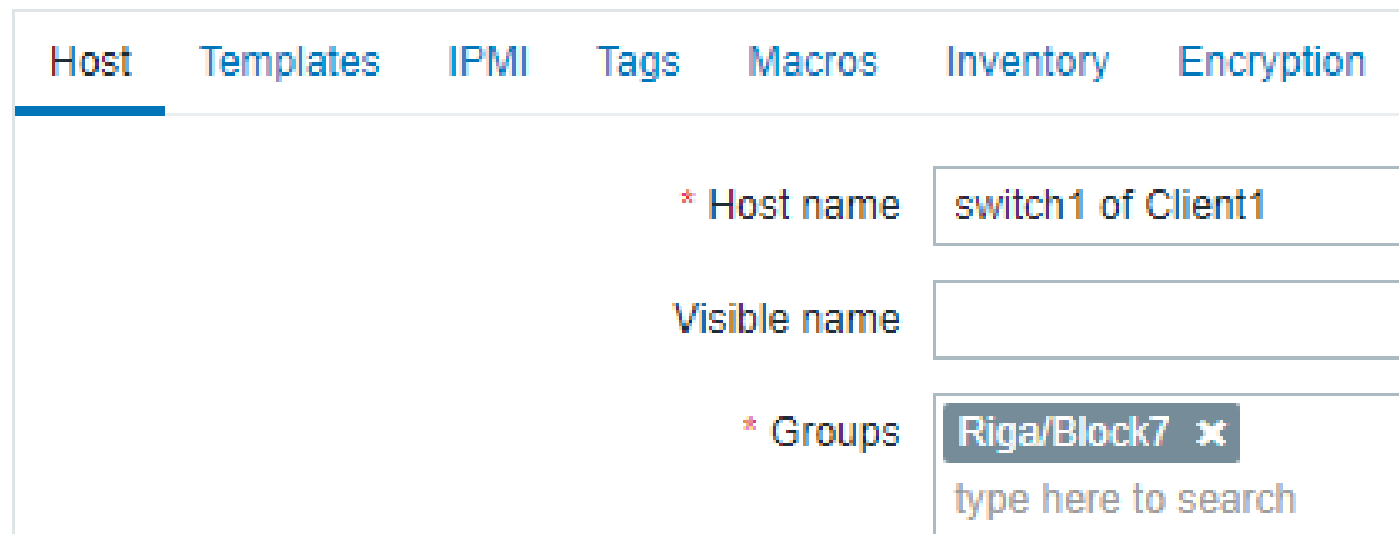
Firewall is down

Generate only one message:

A summary what is happening with property.

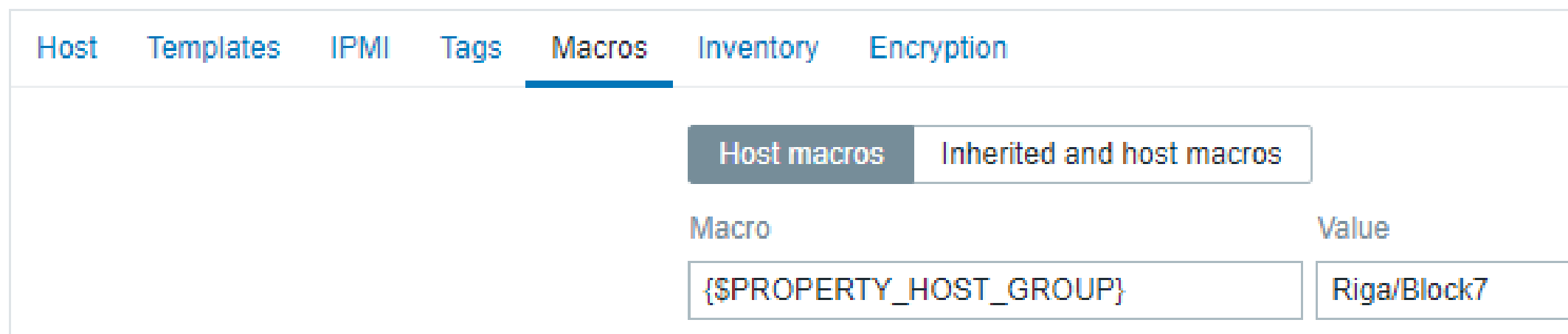
PREREQ: HOST GROUP = VALUE OF MACRO

All client nodes belongs to one **host group**:



The screenshot shows the Zabbix Host configuration page. The 'Host' tab is selected. The 'Host name' field contains 'switch1 of Client1'. The 'Visible name' field is empty. The 'Groups' field shows a dropdown menu with 'Riga/Block7' selected and a search prompt 'type here to search'.

Each host object owns a **macro** `{$PROPERTY_HOST_GROUP}`



The screenshot shows the Zabbix Macros configuration page. The 'Macros' tab is selected. There are two tabs: 'Host macros' and 'Inherited and host macros'. A table lists the macro configuration:

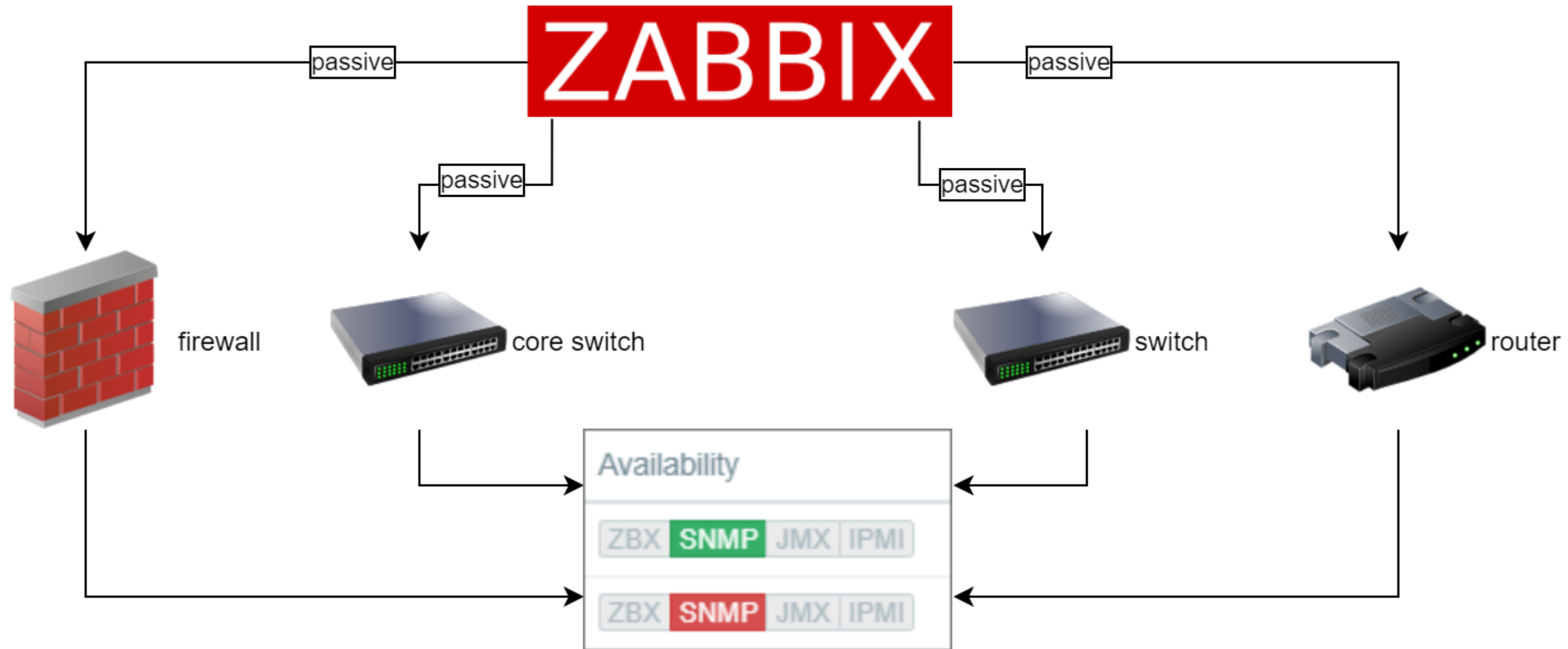
Macro	Value
<code>{\$PROPERTY_HOST_GROUP}</code>	Riga/Block7

PREREQ: **DUMMY** HOST, **PASSIVE** CHECKS

Dummy host for calculated checks.

At least one passive check must be running towards devices we monitor.

HOW IT WORKS?



INTERNAL ITEM WILL READ **COLOR OF ICON**

Item type «Zabbix Internal»:

```
zabbix[host,agent,"available"]
```

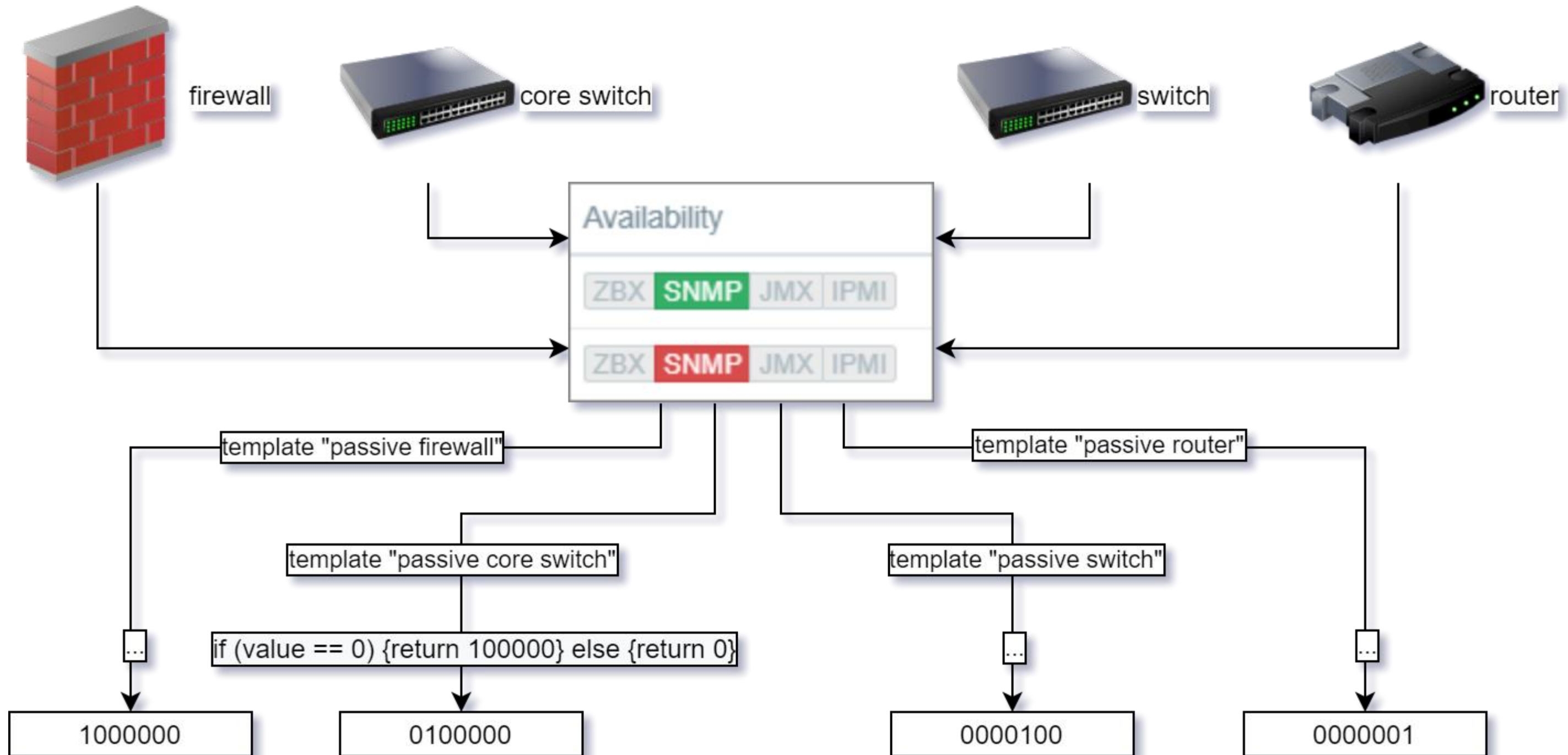
```
zabbix[host,snmp,"available"]
```

If **red**, internal item reports **0**.

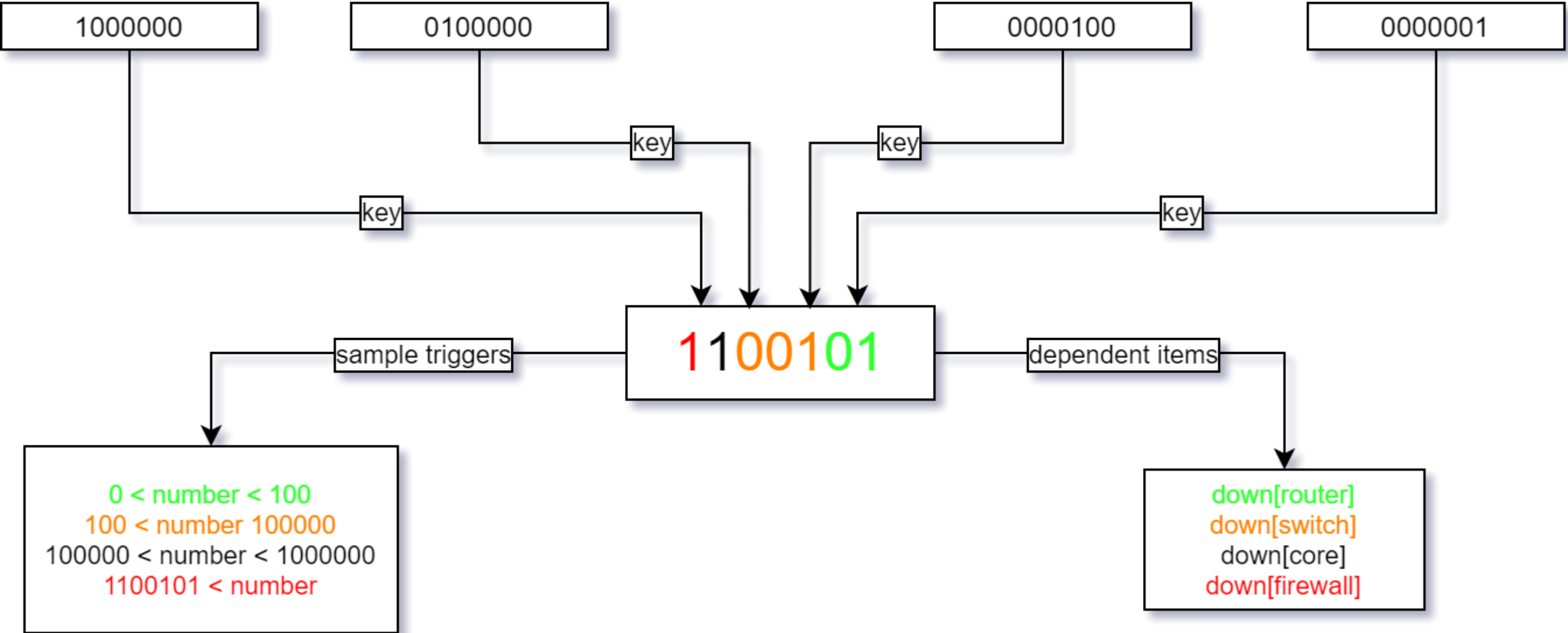
0 is bad.

Availability			
ZBX	SNMP	JMX	IPMI
ZBX	SNMP	JMX	IPMI
ZBX	SNMP	JMX	IPMI
ZBX	SNMP	JMX	IPMI

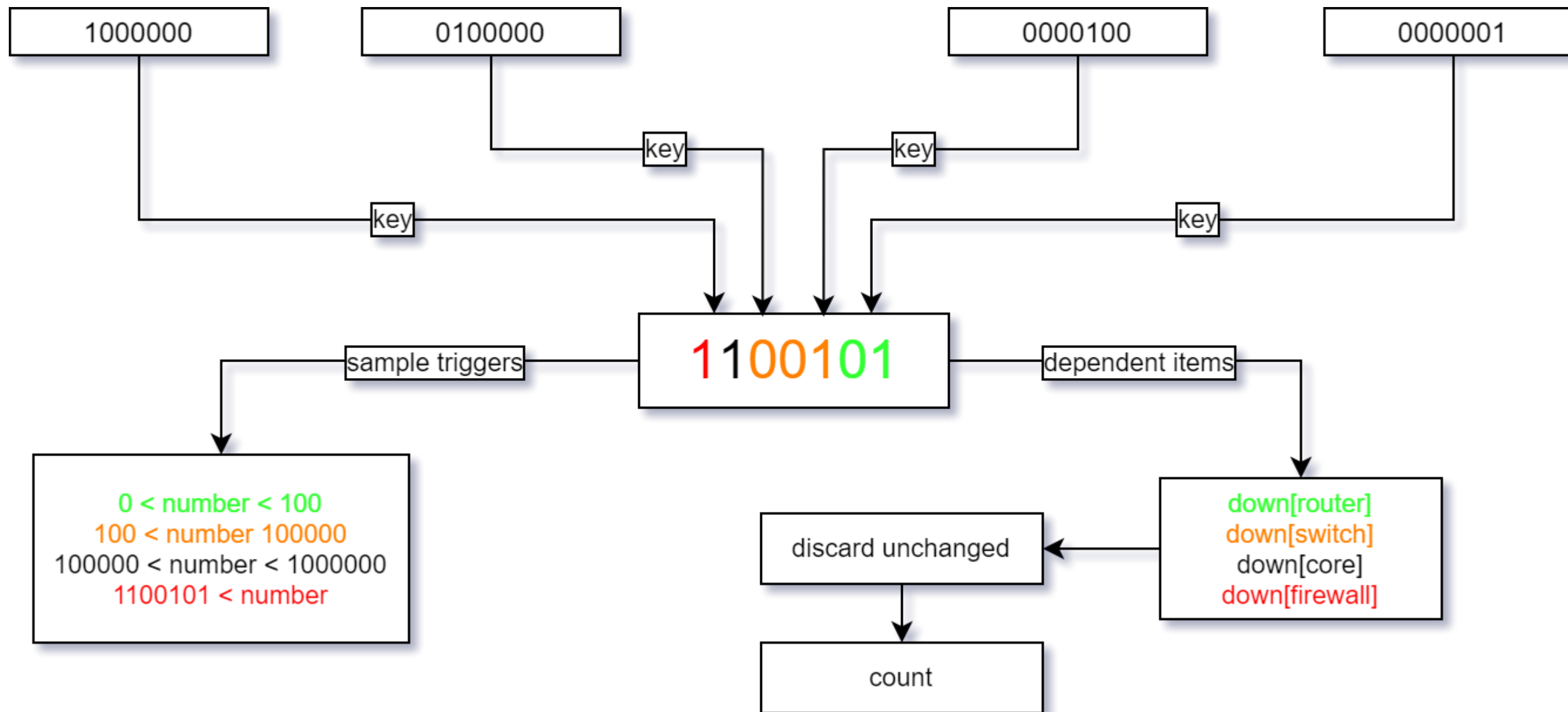
2 ITEMS IN TEMPLATE



AGGREGATION



DETECT FLAPPING



NESTED TEMPLATES, **TYPE X SOLUTION**

Solution:

=> iOS

Type:

=> switch

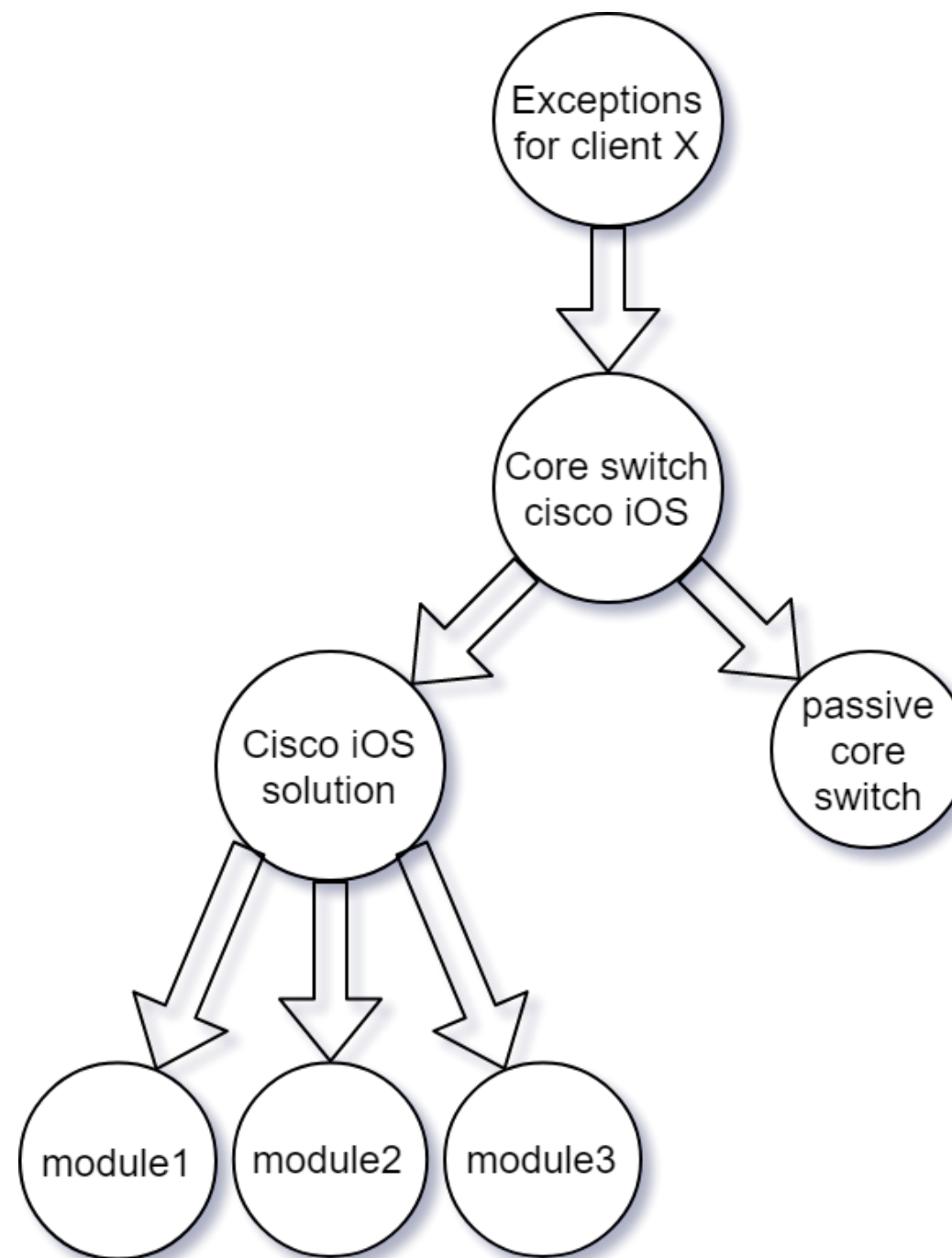
=> core

=> router

(firewall, core switch, switch, router)

X

(iOS)



MORE INFO

Enter «blog.zabbix.com» and search: «Correlation»

Downloadable template:

<input type="checkbox"/> Name ▲	Hosts	Applications	Items	Triggers
<input type="checkbox"/> 0000000 passive aggregate status	Hosts	Applications 14	Items 15	Triggers 8
<input type="checkbox"/> 0000001 passive router	Hosts	Applications 1	Items 2	Triggers
<input type="checkbox"/> 0000100 passive switch	Hosts	Applications 1	Items 2	Triggers
<input type="checkbox"/> 0100000 passive core switch	Hosts	Applications 1	Items 2	Triggers
<input type="checkbox"/> 1000000 passive firewall	Hosts	Applications 1	Items 2	Triggers
<input type="checkbox"/> Property passive for Riga Block7	Hosts	Applications	Items	Triggers



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QUESTIONS?

THANK YOU!

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