

AUTOMATING NETWORK MAP CREATION

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SOMONE in a nutshell



Consulting/Projects

- ✓ Audit, consulting
- ✓ Expertise on demand
- ✓ Migration, upgrade, turnkey projects, troubleshooting

Support

✓ Technical support and assistance services



Managed services

- Monitoring solution in managed mode
- ✓ Administration and operation of your monitoring system



✓ Certified or custom-made training





Whoami

my name is Pascal de JESSEY

zabbix user for many years ZABBIX

Zabbix certified Trainer

ZABBIX CERTIFIED TRAINER

 linux and opensource user for nearly 30 years

Loves to monitor the clouds ... from above











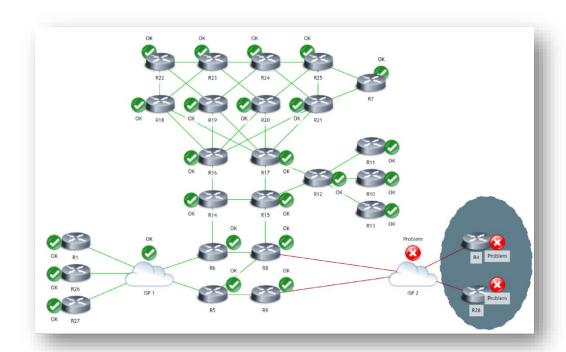
Agenda

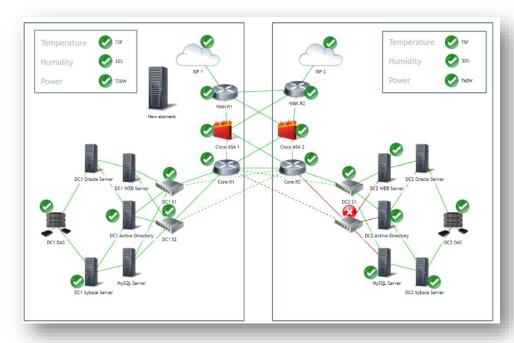
- Maps are great!
- •... But
- •What can we do ?
- What we'll use
- Principles
- The process
- Demo



Zabbix maps are great!

- Zabbix Maps can be really rich and very detailed
- icons, links, labels, etc.







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... But

Design is manual

Many steps needed

Many information to configure

Errors can happen anywhere

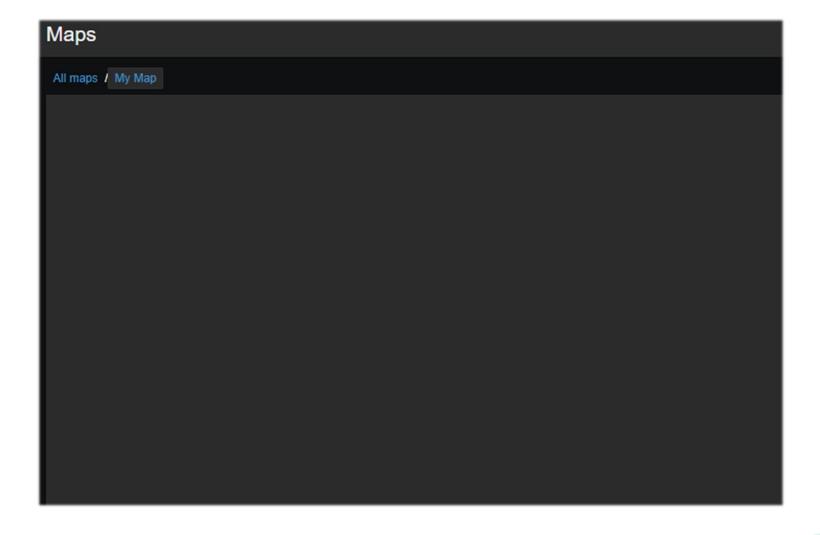






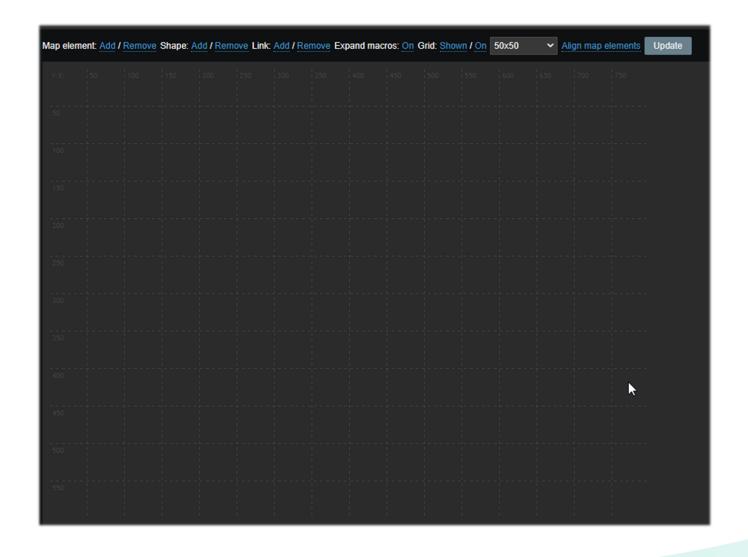






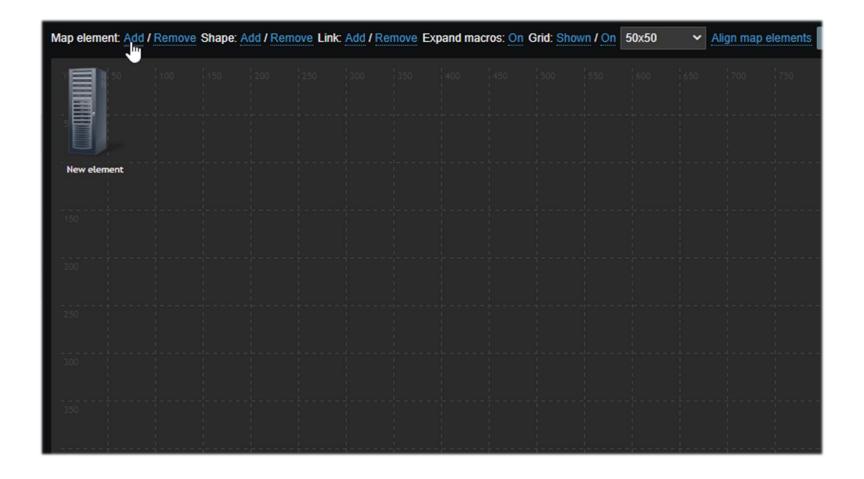






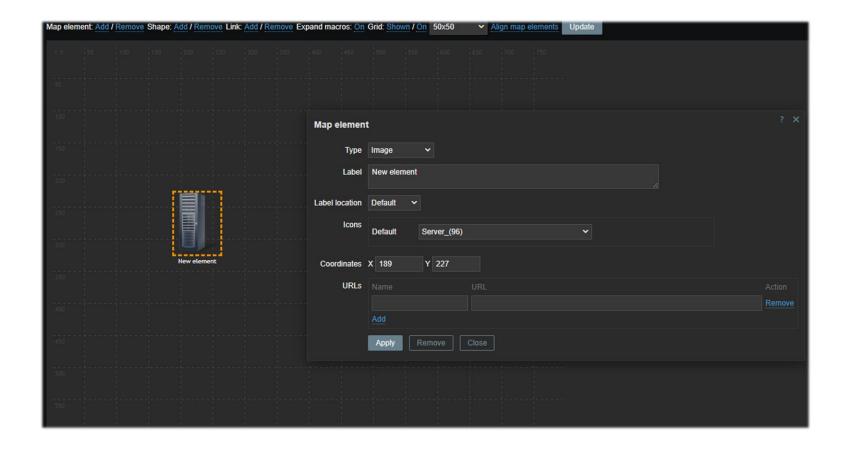




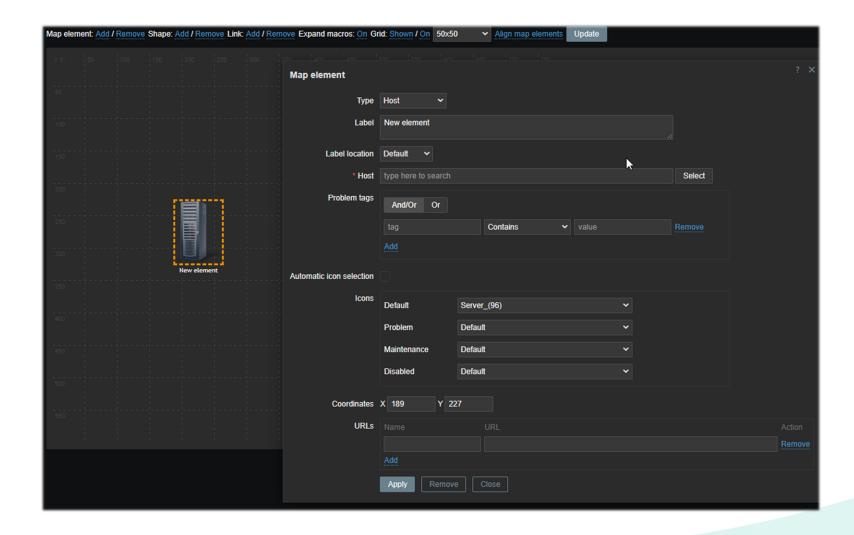




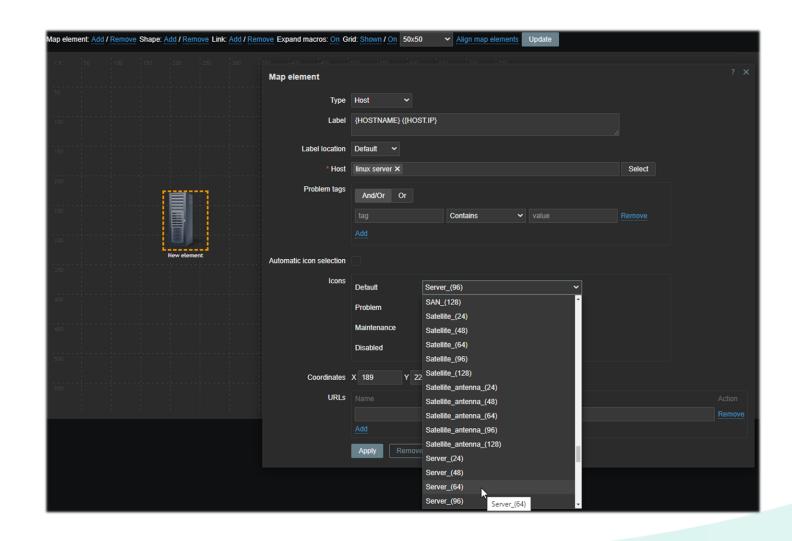




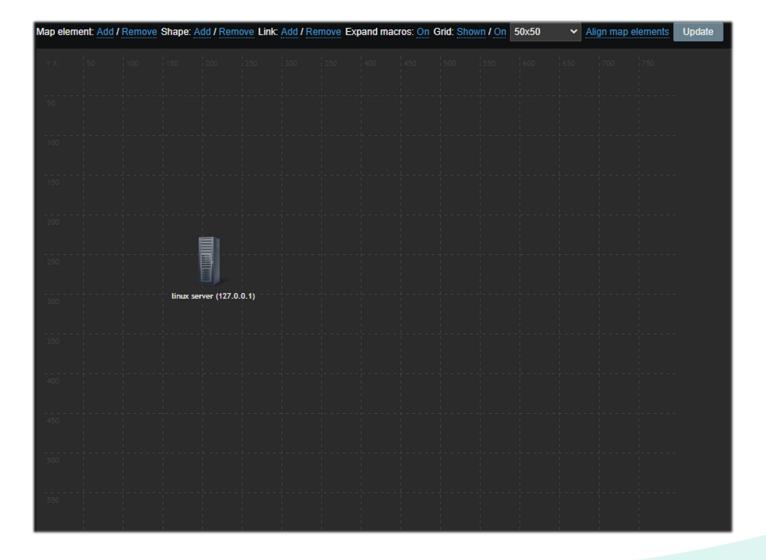






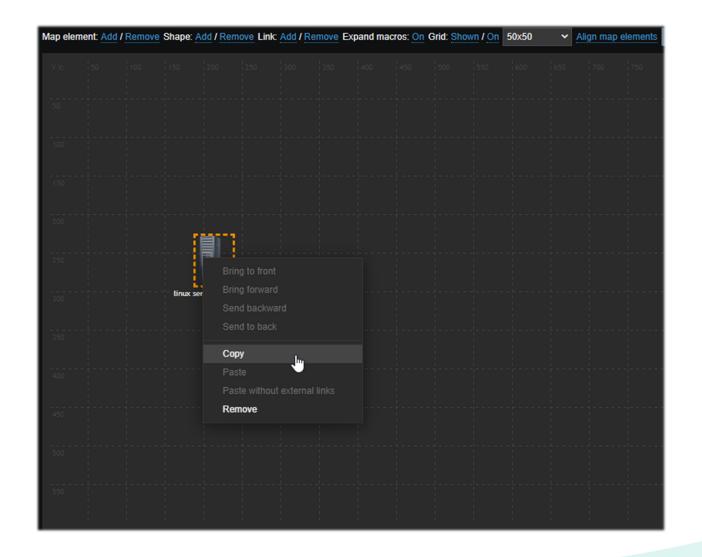






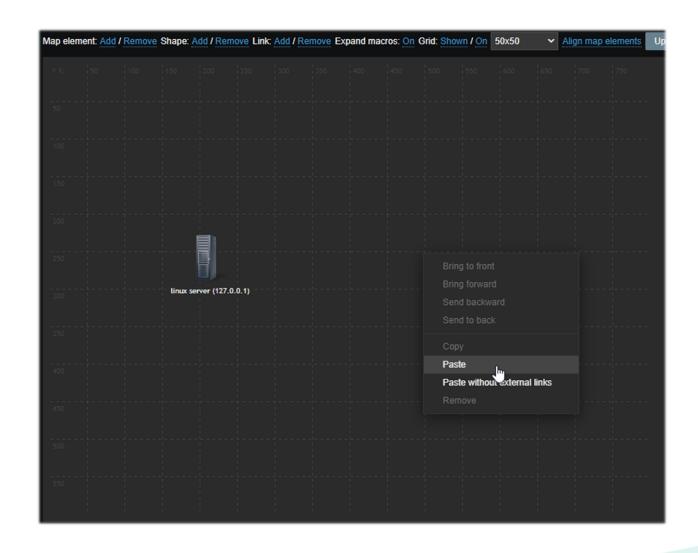






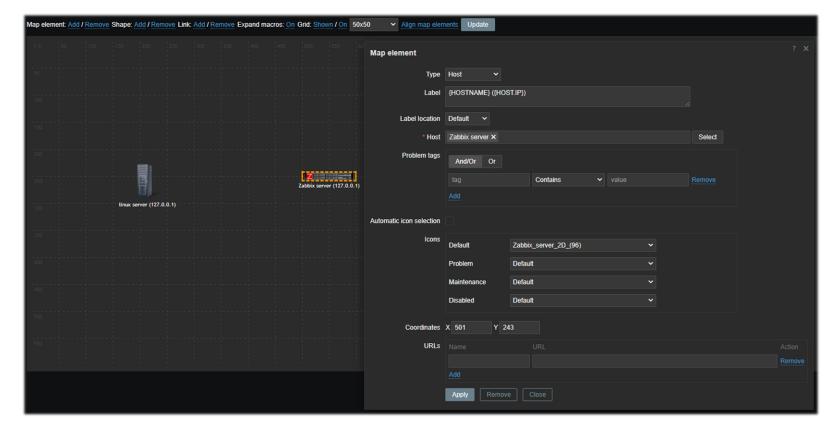




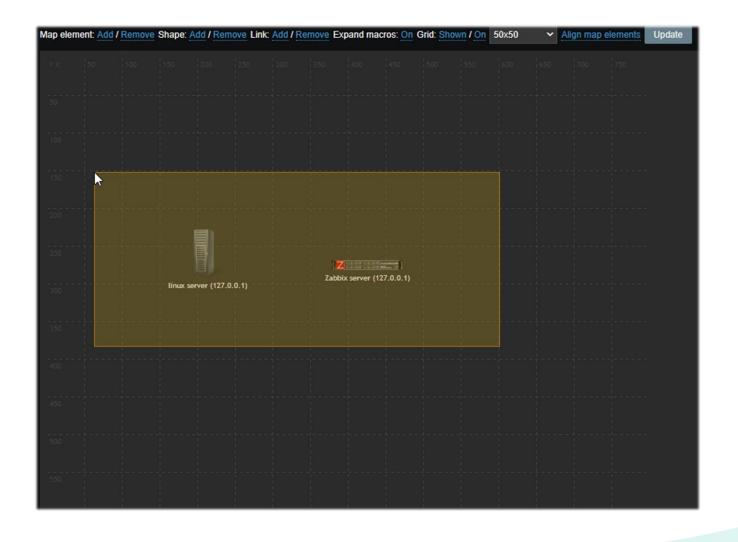






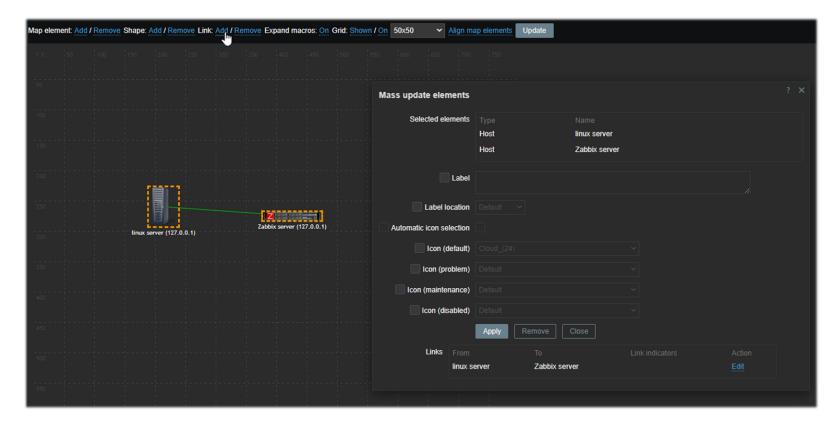




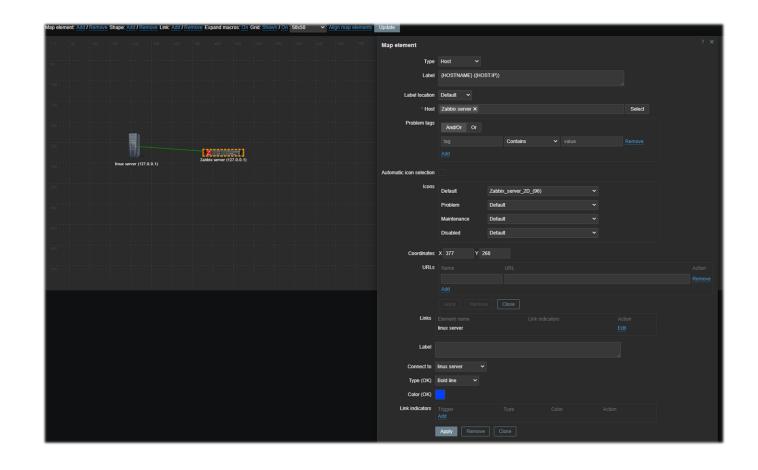


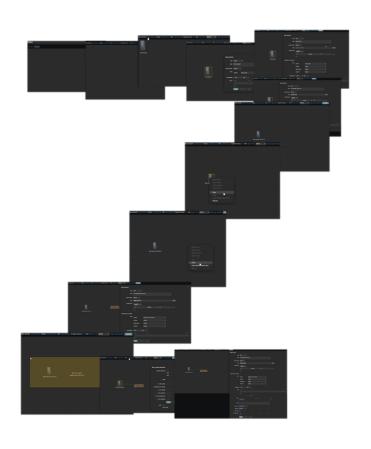


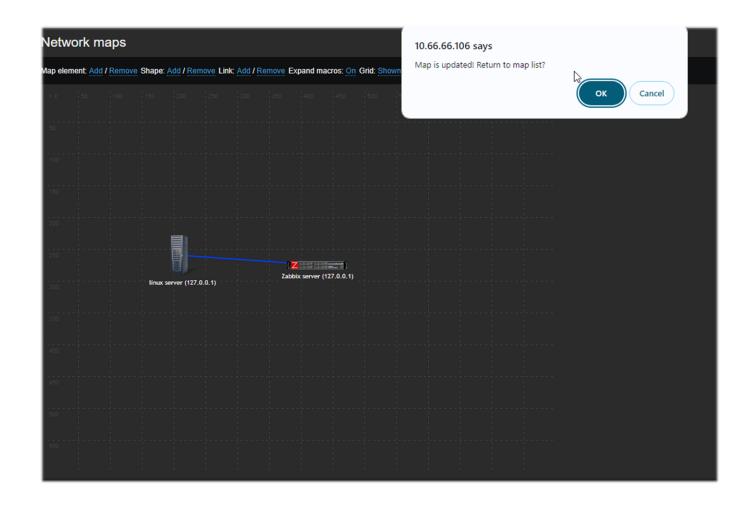














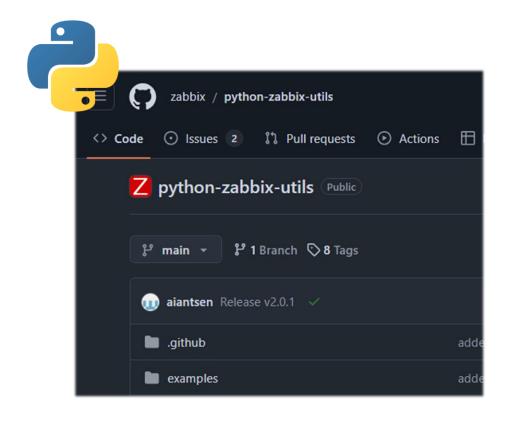


What can we do?

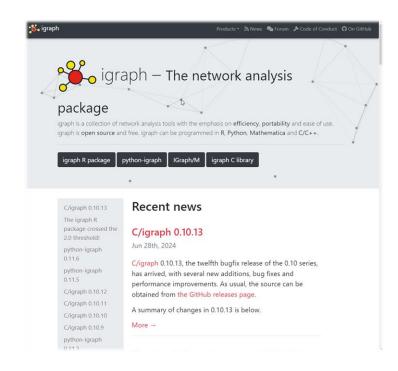




What we'll use



zabbix_utils Python module



igraph Python module



Principles

- Simple
 - only a script to be launched, no dependencies
- Self-Contained
 - All the information is in zabbix
 - map size
 - host group
 - With specific tags, we can add more informations to the hosts:
 - link
 - label
 - type
 - ...

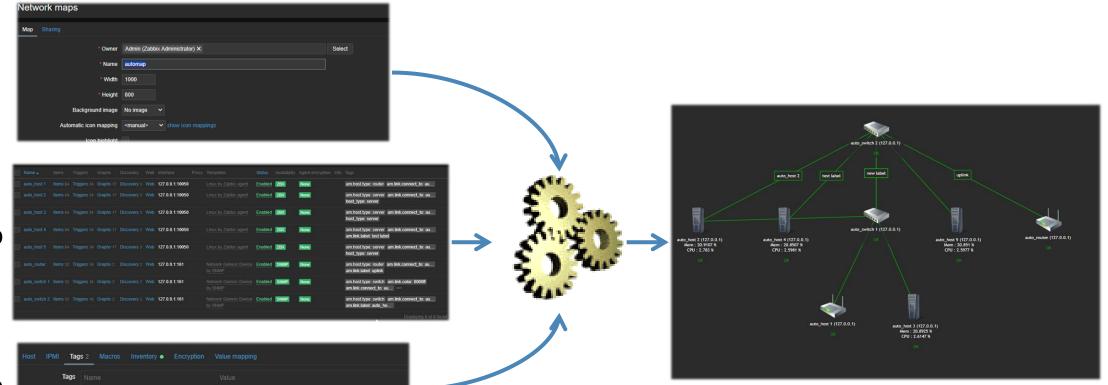


The process

am.link.connect_to

auto_switch 1

map properties



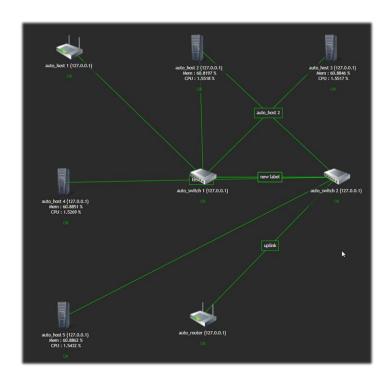
host group

host group

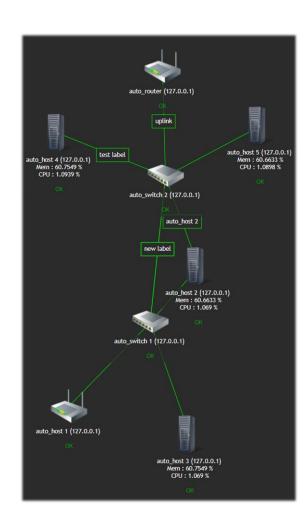
Generated map



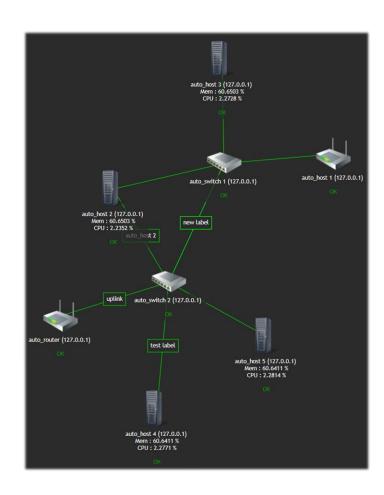
Layouts



Grid



fruchterman reingold

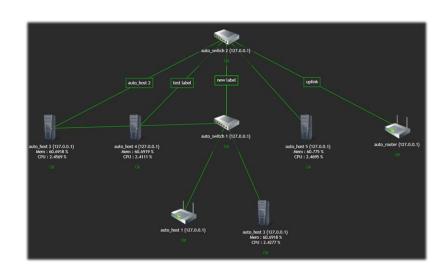


davidson harel

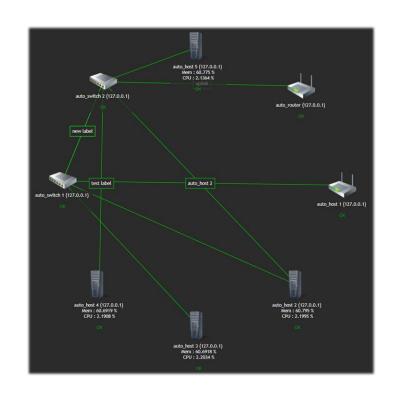


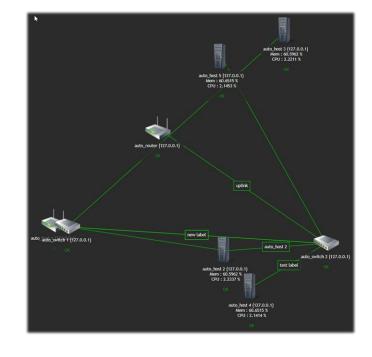
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Layouts



tree





circle

random



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Demo



Improvements

 At the moment, the entire map is recreated whenever we launch the script. It would be great to be able to add/modify/delete some hosts on an existing map

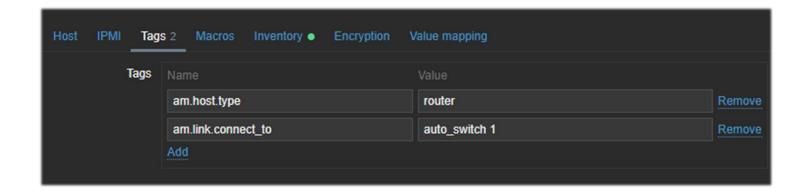
Ability to add submaps

 Add a frontend module to enable configuration directly from the frontend



Improvements

- We use host tags
 - Convenient, but not specifically designed for this purpose.



- Inventory fields ?
 - with custom fields this could be done (<u>ZBXNEXT-336</u>)



Github Repository





https://github.com/SomoneIT/zabbix-AutoMapper



THANK YOU!

