Netdisco2

Inventaire
Gestion des configurations
Sauvegarde
Supervision

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LE CONTEXTE

- L'architecture :
  - 205 équipements niveau 2/3
  - Coeur de réseau :
    - Chassis CISCO (6500 + 4500)
  - Réseau de collecte :
    - HP
    - H3C
    - 3com
  - Réseau salles serveurs :
    - ForceTen

- L'organisation :
  - Une équipe dédiée à l'exploitation du réseau
  - Une équipe support

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LES BESOINS

- Équipe Exploitation :
  - Inventaire des équipements
  - Cartographie du réseau
  - Supervision des équipements et de l'état des liens
  - Sauvegarde des configurations
  - Automatisation !!!!
- Équipe Support :
  - Vision simplifiée des équipements
  - Retrouver une machine sur le réseau
  - Retrouver l'état d'une « prise »

LES OUTILS

CONFIGURATION

NETDISCO2

RANCID

CLI

SUPERVISION

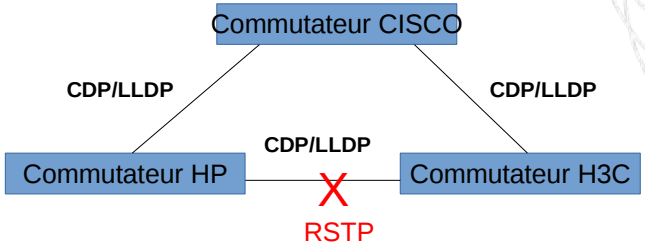
Shinken

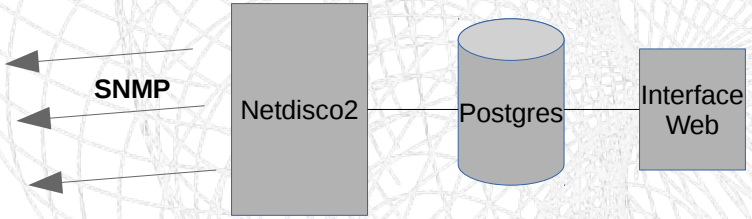
Grafana

graphite

NETDISCO2

- Application « Web » de gestion réseau
  - Programme développé en Perl (Framework Web Dancer)
  - Historisation dans une base PostgresSql
  - Gestion multi-utilsateur/Roles (LDAP,etc..)
    - Découverte périodique des équipements (SNMP)
    - Moissonnage périodique des équipements :
      - Etat des ports
      - Association port équipement → Machine
      - Cartographie du réseau





LES IMAGES:)

Netdisco | Inventory | Reports | Admin | Find Anything | Logged in as admin

Welcome to Netdisco

Netdisco is an Open Source management tool designed for network administrators.

Device hostname or IP | Discover

System Information

Built using Open Source

Software	Version
App::Netdisco	2.033006
DB Schema	v40
Dancer	1.3140
Bootstrap	2.3.1
PostgreSQL	PostgreSQL 9.1.13 on x86_64-unknown-linux-gnu, compiled by gcc (Ubuntu/Linaro 4.6.3-1ubuntu5) 4.6.3, 64-bit. DBI 1.631, DBD::Pg 2.19.0

Statistics for this installation

205 devices with 10,703 interfaces using 614 IPs
785 layer 2 links between devices
34,362 nodes in 59,808 entries
4,193 IPs in 4,952 entries
Statistics took 0 seconds to process.

LES IMAGES:)

Netdisco | Inventory | Reports | Admin | sw-cri-atelier.insa-toulouse.fr | Logged in as admin

Details | Ports | Modules | Neighbors | Addresses — sw-cri-atelier.insa-toulouse.fr

System Name	sw-cri-atelier
Location	CRI Atelier
Contact	eq-reseau@insa-toulouse.fr
Vendor / Model	hp / 2620-24
OS / Version	hp / RA.15.18.0010
Serial Number	CN16DRR041
Description	HP J9623A 2620-24 Switch, revision RA.15.18.0010, ROM RA.15.11 (/ws/swbuildm/rel_quebec_qaoff/code/build/xform(swbuildm_rel_quebec_qaoff_rel_quebec)) (Formerly ProCurve)
Administration	SSH Telnet Web
SNMP Class	SNMP::Info::Layer2::HP
Uptime	1 month 10 days 01:15:03
Layers	2 4 7
Last Discover	2016-06-20 07:06
Last Arpnip	
Last Macsuck	2016-06-20 10:20
Hardware Status	Fan: good PS1 []: good PS2 []: notPresent
MAC Address	2c:27:d7:65:8c:20
VTP Domain	
Admin Tasks	Discover Arpnip Macsuck NBTstat Delete

LES IMAGES:)

Netdisco | Inventory | Reports | Admin | sw-cri-pers.insa-toulouse.fr | Logged in as admin

Details | Ports | Modules | Neighbors | Addresses | sw-cri-pers.insa-toulouse.fr

Show All records. ← Previous Next → Showing 1 to 1 of 1 Filter records...

Port	Duplex	Name	Native VLAN	VLAN Membership	Connected Devices
1	Auto / Full	Bureau8-Prise2	801	801	00:17:31:5e:af:48 st-si1.insa-toulouse.fr (10.8.1.11)

Bureau8-Prise2
Partial Match | Not

Legend
- Link Up
- Link Down
- Port Free
- Admin Disabled
- Blocking
- Manual Topology
- Neighbor Device
- Neighbor Inacessible
- IP Phone
- Wireless Client
- Archived Data
- Link Aggregate
- Click "Update View"

Netdisco | Inventory | Reports | Admin | sw-cri-pers.insa-toulouse.fr | Logged in as admin

Details | Ports | Modules | Neighbors | Addresses | sw-cri-pers.insa-toulouse.fr

Show All records. ← Previous Next → Showing 1 to 1 of 1 Filter records...

Port	Duplex	Name	Native VLAN	VLAN Membership	Connected Devices
49	Auto / Full	Port 21 sw-cri-2900	1	Show VLANs (20)	sw-csn-rdc-00 - GigabitEthernet1/0/2

49
Partial Match | Not

Legend
Display Columns
- Port Controls
- Port
- Description
- Last Comment
- Type
- Duplex
- Last Change
- Name
- Speed
- Port MAC
- MTU
- Native VLAN
- VLAN Membership
- PoE
- SSID
- Connected Nodes
- Connected Devices
- Spanning Tree
- Status

Port Properties
Node Properties
Update View

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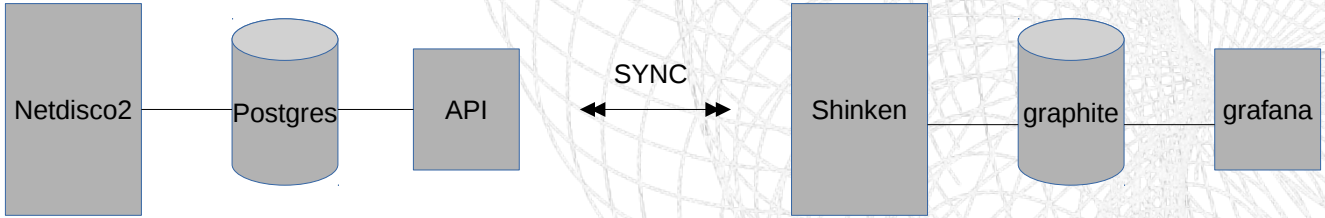
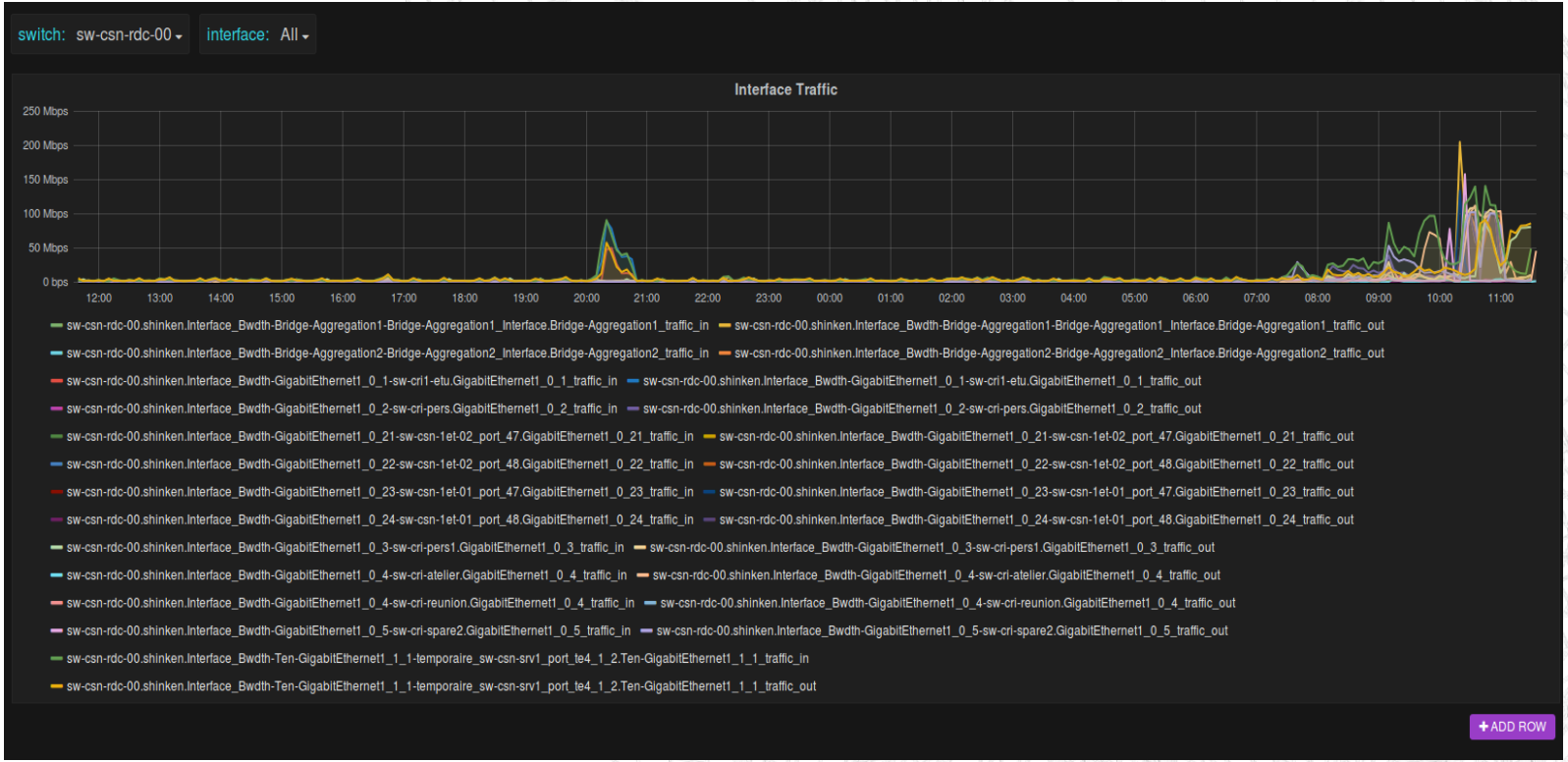
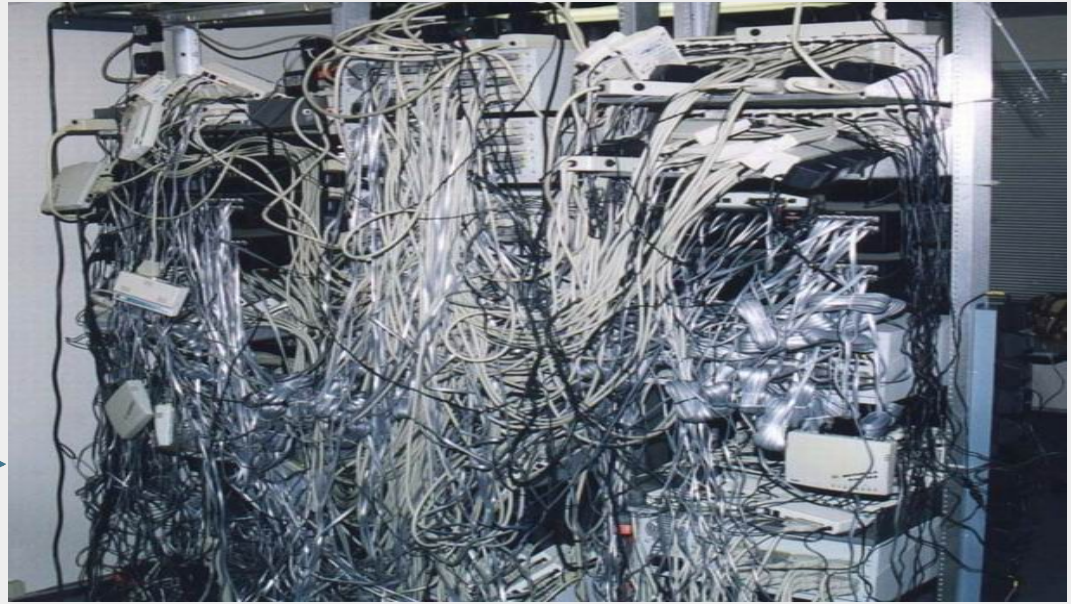
L'AUTOMATISATION

- Limiter les actions lors de la mise en place des nouveaux équipements
- Faciliter l'insertion dans les outils du SI
- Améliorer la cohérence et la validité des données

- Supervision status des commutateurs
- Collecte de métriques sur l'état des liens d'interconnexions



LES IMAGES:)


switch: sw-csn-rdc-00
interface: All
Interface Traffic
250 Mbps
200 Mbps
150 Mbps
100 Mbps
50 Mbps
0 bps
12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00
sw-csn-rdc-00.shinken.Interface_Bwdth-Bridge-Aggregation1-Bridge-Aggregation1_Interface.Bridge-Aggregation1_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-Bridge-Aggregation1-Bridge-Aggregation1_Interface.Bridge-Aggregation1_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-Bridge-Aggregation2-Bridge-Aggregation2_Interface.Bridge-Aggregation2_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-Bridge-Aggregation2-Bridge-Aggregation2_Interface.Bridge-Aggregation2_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_1-sw-cri1-etu.GigabitEthernet1_0_1_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_1-sw-cri1-etu.GigabitEthernet1_0_1_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_2-sw-cri-pers.GigabitEthernet1_0_2_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_2-sw-cri-pers.GigabitEthernet1_0_2_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_21-sw-csn-1et-02_port_47.GigabitEthernet1_0_21_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_21-sw-csn-1et-02_port_47.GigabitEthernet1_0_21_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_22-sw-csn-1et-02_port_48.GigabitEthernet1_0_22_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_22-sw-csn-1et-02_port_48.GigabitEthernet1_0_22_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_23-sw-csn-1et-01_port_47.GigabitEthernet1_0_23_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_23-sw-csn-1et-01_port_47.GigabitEthernet1_0_23_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_24-sw-csn-1et-01_port_48.GigabitEthernet1_0_24_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_24-sw-csn-1et-01_port_48.GigabitEthernet1_0_24_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_3-sw-cri-pers1.GigabitEthernet1_0_3_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_3-sw-cri-pers1.GigabitEthernet1_0_3_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_4-sw-cri-atelier.GigabitEthernet1_0_4_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_4-sw-cri-atelier.GigabitEthernet1_0_4_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_4-sw-cri-reunion.GigabitEthernet1_0_4_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_4-sw-cri-reunion.GigabitEthernet1_0_4_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_5-sw-cri-spare2.GigabitEthernet1_0_5_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-GigabitEthernet1_0_5-sw-cri-spare2.GigabitEthernet1_0_5_traffic_out
sw-csn-rdc-00.shinken.Interface_Bwdth-Ten-GigabitEthernet1_1_1-temporaire_sw-csn-srv1_port_te4_1_2.Ten-GigabitEthernet1_1_1_traffic_in
sw-csn-rdc-00.shinken.Interface_Bwdth-Ten-GigabitEthernet1_1_1-temporaire_sw-csn-srv1_port_te4_1_2.Ten-GigabitEthernet1_1_1_traffic_out
+ADD ROW

Merci