



Eyes Of Network



Capitoul / Supervision
30 avril 2015

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- Présentation
- Mise en œuvre
- Outils
- Conclusion

Présentation (1/4)

- Eyes of Network (EON)
 - Solution OpenSource (GPLv2)
 - Sponsorisé par APX (vente de services)
 - Suit les bonnes pratiques ITIL
 - Solution Bare-metal

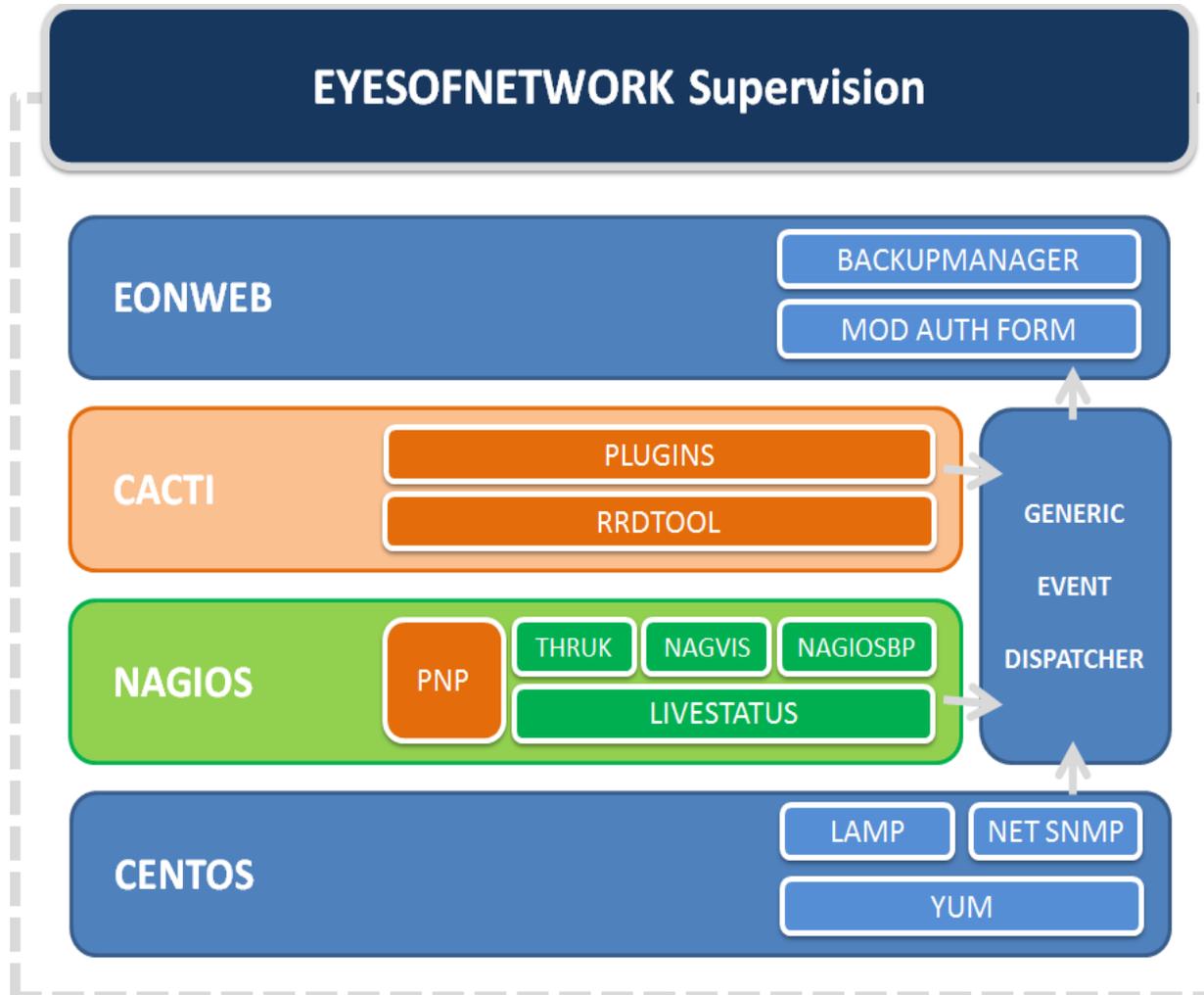
Présentation (2/4)

- Gestion des évènements
- Gestion de la disponibilité
- Gestion des problèmes
- Gestion de la capacité

Présentation (3/4)

- Intègre les briques logicielles suivantes :
 - GED (Generic Event Dispatcher) : gestion multi sites et sécurisée des événements,
 - NAGIOS : gestion des incidents et des problèmes,
 - THRUK : interface de supervision multibackend (Nagios, Icinga, Shinken, Naemon),
 - NAGVIS : cartographie personnalisée de la disponibilité,
 - NAGIOSBP : gestion de la criticité des applications,
 - CACTI et PNP4NAGIOS : gestion des performances,
 - WEATHERMAP : cartographie de la bande passante,
 - BACKUP MANAGER : Outil de sauvegarde de la solution,
 - EONWEB : Interface Web unifiée de la solution,
 - EZGRAPH : Librairie d'affichage des graphiques,
 - SNMPTT : Traduction des traps snmp,
 - GLPI / OCS / FUSION : Gestion de parc et inventaire.

Présentation (4/4)



Mise en œuvre

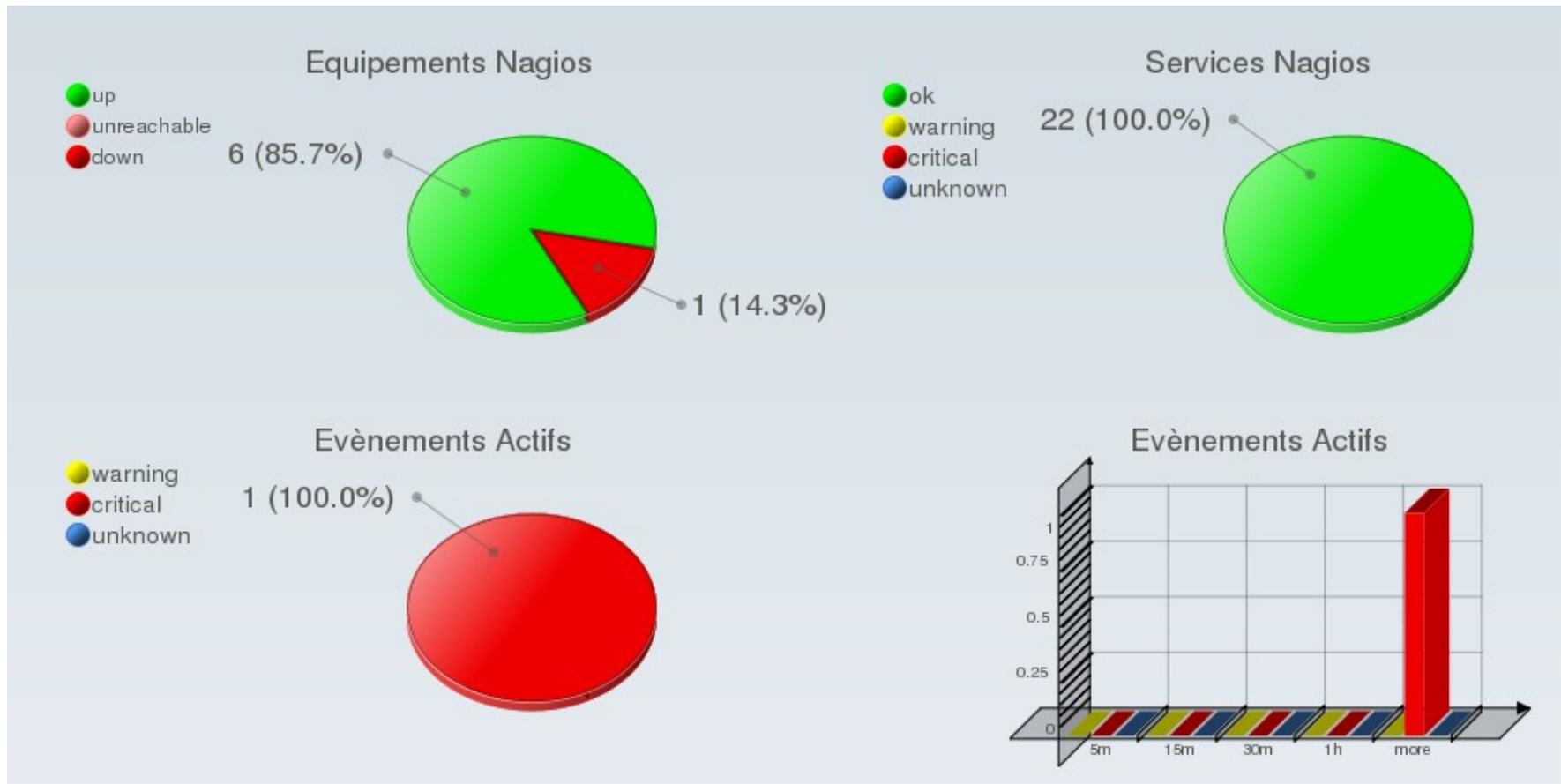
- Installation
 - Live CD
 - Basé sur CentOS 6
 - Sélection des « packages » à l'installation
 - Pour les modules de gestion de parc et ticket uniquement

Mise en œuvre

- Configuration
 - Basé sur Nagios (host, service, contact)
 - Déclaration de la communauté snmp
 - nagios / snmpd / cacti
 - Création de services personnalisés en plus des services de base prédéfinis
 - Déclaration des équipements
 - nagios / import dans cacti
 - Authentification unifiée entre toutes les briques logicielles (cookies)

Outils

- Tableau de bord



Outils

- Panorama (Thruk)

The screenshot displays the Thruk monitoring interface. At the top, there are tabs for 'wifi' and 'serveurs'. The interface is divided into several panels:

- System Metrics (Left):** A table showing CPU usage (User: 4.79%, Nice: 0.00%, System: 0.94%, Wait IO: 0.31%), Load (load 1: 0.14, load 5: 0.12, load 15: 0.09), and Memory (total: 1877MB, free: 117MB, used: 753MB, buffers: 0MB, cached: 1007MB).
- Site Details (Top Middle):** A table with columns Site, Version, and Runtime. It shows 'EyesOfNet...' with version 3.5.1 and runtime 0d 0h 6m 48s.
- Summary (Top Right):** A table with columns Type, Total, and Rate. It lists Servicechecks (31, 0.08/s), Hostchecks (14, 0.02/s), Connections (137, 0.33/s), Requests (136, 0.33/s), NEB Callbacks (2,217, 5.50/s), and Cached Log Messages (0).
- Host Status Table (Bottom):** A table with columns Hostname, Icons, Status, Last Check, Duration, Attempt, Site, Status Information, and Performance. All hosts are listed as 'Up'.

Hostname	Icons	Status	Last Check	Duration	Attempt	Site	Status Information	Performance
chat		Up	17:21:51	52d 0h 7m 28s	1/2		PING OK - Packet los...	
localhost		Up	17:22:21	52d 3h 15m 42s	1/2		PING OK - Packet los...	
rang-1cn-18-ap02		Up	17:22:51	6d 0h 8m 41s+	1/2		PING OK - Packet los...	
rang-1cn-48-05-12		Up	17:23:31	0d 2h 37m 12s	1/2		PING OK - Packet los...	
rang-1cn-48-wlan-mast		Up	17:24:01	21d 8h 56m 1s	1/2		PING OK - Packet los...	
rang-6506		Up	17:20:32	21d 8h 56m 1s	1/2		PING OK - Packet los...	
rang-staps-2824		Up	17:21:06	21d 8h 55m 51s	1/2		PING OK - Packet los...	

Outils

- Événements actifs

SEARCH
all | equipment | | ok | warning | critical | unknown | owner : All | Search

PARAMETERS
date range : | | | first event : 0 | events to show : 100

RESULT : 1/1 EVENT(S) FOUND.

ALL	EQUIPMENT	SERVICE	STATE	OWNER	DESCRIPTION	ORIGINAL-TIME	LAST-TIME	OCCURENCES
<input type="checkbox"/>	rang-1cn-18-ap02	HOST DOWN			(Host Check Timed Out)	Apr 15, 2015 3:05:17 PM	Apr 15, 2015 3:06:27 PM	2
ALL	EQUIPMENT	SERVICE	STATE	OWNER	DESCRIPTION	ORIGINAL-TIME	LAST-TIME	OCCURENCES

- Événements résolus

SEARCH
all | equipment | | ok | warning | critical | unknown | owner : All | Search

PARAMETERS
date range : | | | Ack time | first event : 0 | events to show : 100

RESULT : 100/459 EVENT(S) FOUND.
YOU HAVE MORE THAN 100 LINES, ADJUST YOUR SEARCH.

ALL	EQUIPMENT	SERVICE	STATE	OWNER	DESCRIPTION	ORIGINAL-TIME	LAST-TIME	OCCURENCES
<input type="checkbox"/>	rang-6506	status			Fan chassis-1 Power Supply 2 Fan: notPresent Fan chassis-2 Power Supply 2 Fan: notPresent , ps chassis-2 Power Supply 2, empty: notPresent ps chassis-1 Power Supply 2, empty: notPresent , 48 temp OK : OK	Apr 15, 2015 10:06:51 AM	Apr 15, 2015 10:06:51 AM	1
<input type="checkbox"/>	rang-6506	status			(Service Check Timed Out)	Apr 15, 2015 10:06:11 AM	Apr 15, 2015 10:06:11 AM	1

Outils

- Nagios Business Process
 - Création de vue de services (dépendances de services et d'équipements)
 - Limitation au travers de et, ou , minimum
- Découverte automatique
 - Nagios Auto Discover
- Prise en main à distance
 - Applet Java
- Sauvegarde configuration et base de données automatiques (Backup Manager)

Conclusion

- Solution qui se veut simple
- Solution tout en un
 - Intégration des différentes briques logicielles plus ou moins aboutie (en attente prochaine version)
 - Mais avec offre de service complète (ITIL)
- Prise en main pas toujours très intuitive
- Nécessite sans doute une prestation d'intégration en environnement complexe
 - Consultation des documentations originelles des produits embarqués

Pointeurs

- Le projet : <https://www.eyesofnetwork.com/?lang=fr>
- Forum EoN : <https://forum.eyesofnetwork.com/>
- Monitoring-fr :
<http://wiki.monitoring-fr.org/eyesofnetwork/start>
- Linux-fr (version EoN à jour 4.1) :
<https://linuxfr.org/news/eyesofnetwork-4-0-est-sorti>



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- Outils
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Présentation (1/3)

- Centreon
 - Solution OpenSource (GPLv2)
 - Société MERETHIS
 - Propose Centreon Entreprise Server (CES)
plusieurs formules : libre, payantes

Présentation (2/3)

- Gestion des évènements
- Gestion de la disponibilité
- Gestion des problèmes
-

Présentation (3/3)

- Intègre les composants suivants :
 - Centreon Engine collecteur remplace nagios
 - Centreon Broker stocke les événements dans une base de données
- Peut intégrer Nagios comme collecteur

Mise en œuvre

- Installation
 - tar.gz
- Utilisation FAN Fully automated nagios
 - Image ISO
 - Basé sur Centos
 - Briques intégrées : nagios, centreon web, nagvis, NDOUtils, NRPE

Mise en œuvre

- Configuration
 - Configuration graphique de nagios
 - importation de conf existante
 - découverte via plugins
 - multi sites
 - Gestion des vues
 - vue metier, meta service (messagerie,...)
 - Authentification via annuaire
 - importation user
 - attribution d'acl pour limiter la vision du monitoring

Outils

- Tableau de bord

The screenshot displays the Centreon monitoring interface. At the top, there's a navigation bar with 'Home', 'Monitoring', 'Views', 'Reporting', 'Configuration', and 'Administration'. Below this is a summary bar showing system statistics: 392 hosts, 366 up, 26 down, 0 unreachable, 0 pending, 450 services, 446 OK, 1/1 warning, 1/3 critical, 0/0 unknown, and 0 pending. The main content area shows a list of services for the 'Astreintes isae' group. The table below provides a detailed view of these services.

Host	Service	Status	Duration	Hard State	Duration	Last Check	Attempt	Output
	Espace-DISK /	OK	9M 1w 22h 5m 5s	9M 1w 22h 5m 5s	2015-04-15 11:54:12	1/5	/: 89%used(117000MB/131583MB) (<90%) : OK	
	Verification certificats https	OK	4d 2h 3m 39s	4d 2h 3m 39s	2015-04-15 11:51:17	1/1	OK - Certificate 'edt.isae.fr' will expire on 09/0	
	WEB	OK	4d 2h 3m 37s	4d 2h 3m 37s	2015-04-15 11:51:13	1/5	HTTP OK: HTTP/1.1 200 OK - 3660 bytes in 0.037 sec	
	Maiq	OK	45y 3M 1w 6d 4h 52m 55s	45y 3M 1w 6d 4h 52m 55s	1970-01-01 01:00:00	1/5		
	Serveur IMAPS	OK	1w 1d 1h 28m 54s	3M 3w 15h 20m	2015-04-15 11:50:45	1/5	IMAP OK - 0.067 second response time on port 993 [
	Serveur SMTP	OK	3M 3w 15h 20m 22s	3M 3w 15h 20m 22s	2015-04-15 11:53:45	1/5	SMTP OK - 0.002 sec. response time	
	Verification certificats imap	OK	3M 1w 1d 17h 22m 2s	3M 1w 1d 17h 22m 2s	2015-04-15 11:50:40	1/1	OK - Certificate 'aluchet.isae.fr' will expire on	
	Espace-DISK /	OK	4d 2h 3m 33s	4d 2h 3m 33s	2015-04-15 11:51:09	1/5	/: 79%used(5377MB/6820MB) (<90%) : OK	
	Espace-disque	OK	4d 1h 54m 33s	4d 1h 54m 33s	2015-04-15 11:45:01	1/5	/: 20535 MB (63% inode=98%): /export/home 96686 MB	
	WEB	OK	4d 2h 3m 24s	4d 2h 3m 24s	2015-04-15 11:51:27	1/5	HTTP OK: HTTP/1.1 200 OK - 284 bytes in 0.016 seco	
	Serveurs_KVM	OK	1M 4d 10h 16m 31s	1M 4d 10h 16m 31s	2015-04-15 11:39:56	1/5	ent-dev:running Openforge-dev:running Redmine-dev:	
	WEB	OK	4d 2h 3m 22s	4d 2h 3m 22s	2015-04-15 11:51:33	1/5	HTTP OK: HTTP/1.1 200 OK - 362 bytes in 0.007 seco	
	but isae	OK	4d 2h 3m 18s	4d 2h 3m 18s	2015-04-15 11:51:18	1/5	HTTP OK: HTTP/1.1 301 Moved Permanently - 541 byte	
	Verification certificats https	OK	2m 47s	2m 47s	2015-04-15 11:51:47	1/1	OK - Certificate 'but.isae.fr' will expire on 09/1	
	Adobe media serveur	OK	2h 54m 48s	4d 2h 3m 15s	2015-04-15 11:49:46	1/3	TCP OK - 0.001 second response time on port 1935	
	AMS adobe srv 1935	OK	4d 2h 3m 16s	4d 2h 3m 16s	2015-04-15 11:51:33	1/3	TCP OK - 0.002 second response time on port 1935	
	Espace-DISK /	OK	4d 2h 3m 13s	4d 2h 3m 13s	2015-04-15 11:51:27	1/5	/: 87%used(44015MB/50397MB) (<90%) : OK	
	WEB	OK	4d 2h 3m 7s	4d 2h 3m 7s	2015-04-15 11:51:44	1/5	HTTP OK: HTTP/1.1 200 OK - 25741 bytes in 0.005 se	
	Espace-disque	OK	4d 1h 54m 33s	4d 1h 54m 33s	2015-04-15 11:45:01	1/5	/: 33617 MB (91% inode=99%): /export/home 86118 MB	
	Maiq	OK	4d 1h 54m 33s	4d 1h 54m 33s	2015-04-15 11:45:01	1/5	mailq is empty	
	Serveur IMAPS	OK	4d 2h 3m 5s	4d 2h 3m 5s	2015-04-15 11:51:51	1/5	IMAP OK - 0.053 second response time on port 993 [
	Serveur SMTP	OK	4d 2h 3m 3s	4d 2h 3m 3s	2015-04-15 11:51:36	1/5	SMTP OK - 0.013 sec. response time	
	Serveur SMTPS	OK	4d 2h 3m 2s	4d 2h 3m 2s	2015-04-15 11:51:42	1/5	SSMTP OK - 0.065 second response time on port 465	
	Verification certificats imap	OK	4d 2h 3m	4d 2h 3m	2015-04-15 11:51:56	1/1	OK - Certificate 'email.isae.fr' will expire on 03	
	Verification certificats smtps	OK	4d 2h 2m 58s	4d 2h 2m 58s	2015-04-15 11:51:56	1/1	OK - Certificate 'smtps.isae.fr' will expire on 03	
	Espace-disque	OK	4d 1h 54m 33s	4d 1h 54m 33s	2015-04-15 11:30:01	1/5	/: 26408 MB (94% inode=97%): /export/home 108788 MB	
	Maiq	OK	4d 1h 54m 33s	4d 1h 54m 33s	2015-04-15 11:45:01	1/5	mailq reports queue is empty	
	Serveur SMTP	OK	3d 5h 27m 54s	3d 5h 27m 54s	2015-04-15 11:41:47	1/5	SMTP OK - 0.003 sec. response time	
	coquillette.NFS	OK	9M 1w 22h 4m	9M 1w 22h 4m	2015-04-15 11:54:32	1/3	TCP OK - 0.000 second response time on port 2049	

Outils

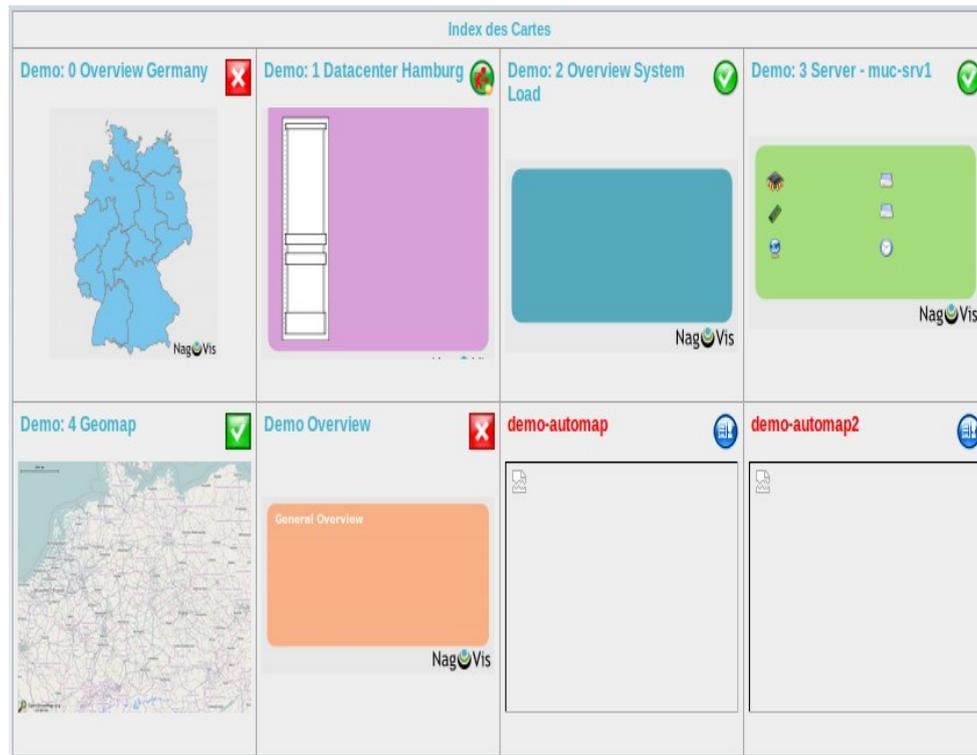
- Monitoring

The screenshot displays the Nagios Core web interface. At the top left is the 'Centreon' logo. A status bar at the top right shows poller states and counts: Hosts (392 Up, 26 Down, 0 Unreachable, 0 Pending), Services (450 Ok, 1/1 Warning, 1/3 Critical, 0/0 Unknown, 0 Pending). The main navigation bar includes Home, Monitoring, Views, Reporting, Configuration, and Administration. The current view is 'Monitoring > Services > Service Problems', dated 2015/04/15 12:07. A search bar allows filtering by Host, Service, Status, Output, Poller, and Hostgroup. A table lists the following service problems:

Hosts	Services	Status	Duration	Hard State Duration	Last Check	Tries	Status information
[redacted]	ORACLE	CRITICAL	21h 24m 27s	21h 24m 27s	15/04/2015 12:02:57	3/3 (H)	TCP CRITICAL - Invalid hostname, address or socket: geiko.isae.fr
[redacted]	Serveur resto appli http	CRITICAL	21h 23m 28s	21h 23m 28s	15/04/2015 11:58:56	5/5 (H)	Name or service not known
[redacted].fr	Espace-DISK /	WARNING	14h 28m 10s	13h 28m 10s	15/04/2015 11:54:15	5/5 (H)	/: 90%used(115367MB/127739MB) (>90%) : WARNING
[redacted]	partage-dfm /home/partage-dfm FREE	CRITICAL	51m 3s	49m 3s	15/04/2015 12:03:21	3/3 (H)	/home/partage-dfm DANGER !! Left : 147 MB

Outils

- Nagvis



Outils

- Modules supplémentaires
 - Centreon BI business intelligence
 - Centreon BAM business activity monitoring
- Plugins : glpi, syslog

Conclusion

- Solution qui se veut simple
- Solution tout en un (FAN)
- Vues : vision métier