

Icinga

MonKey Presentasjon 29.01.2013
Monitoring is Key

Valg av kjerneprogramvare (Icinga)

- Fork av nagios
 - Nagios-kompatibel
- Bra dokumentasjon
- Icinga reporting
- Icinga web
- Icinga mobile
- API mot Icinga Core
- Icinga 2

Objekter

- Host
- Hostgroup
- Service
 - command + host/hostgroup
- Servicegroup
- Command
- Host- og service dependency
- Contact
- Contactgroup
- Timeperiod
- Host- og service escalation

Templates og arv

```
define host {  
    check_command          check-host-alive  
    notification_options   d,u,r  
    max_check_attempts     5  
    name                   generichosttemplate  
    register               0  
}  
  
define host {  
    host_name              bighost1  
    address                192.168.1.3  
    use                    generichosthosttemplate  
}
```

Templates og arv

- Selvdefinerte variabler f.eks til ssh port.
- Kan arve i flere nivåer
- Overstyres i den konfigurasjonen som er mest lokal.

Konfigurasjonsfiler

- Bygget på tekstfiler
- Leter rekursivt i /etc/icinga/objects/*.cfg
- Sjekk med icinga -v icinga.cfg
- service icinga reload
- Konfigurasjonen lagres i MySQL/PostgreSQL db.

Legge til nye hosts

- `cp template_host ns03.cnf`
- `nconf`
- Lage en enkel "velg hostgroups for ny host" webgui?


Webgrensesnitt

Icinga classic

Icinga-Web

Generell overvåkning

- DHCP
- DNS
- LDAP
- SMB
- MySQL
- HTTP

HIG3		Check DHCP	OK	2013-01-28 14:26:31	2d 11h 13m 45s	1/4	OK: Received 1 DHCPOFFER(s), 1 of 1 requested servers responded, max lease time = 0 sec.
		Check DNS	OK	2013-01-28 14:26:53	1d 0h 23m 23s	1/4	DNS OK: 0.012 seconds response time. hig3.monkey.local returns 10.60.0.22
		Check LDAP	OK	2013-01-28 14:26:43	3d 1h 9m 15s	1/4	LDAP OK - 0.004 seconds response time
		Check SMB	OK	2013-01-28 14:29:05	2d 23h 46m 11s	1/4	Disk ok - 19.71G (49%) free on \\10.60.0.22testshare

HIG1		Check HTTP	OK	2013-01-28 14:23:58	3d 0h 2m 40s	1/4	HTTP OK: HTTP/1.1 200 OK - 453 bytes in 0.001 second response time
		Check MySQL DB	OK	2013-01-28 14:24:43	3d 0h 1m 55s	1/4	Uptime: 523832 Threads: 3 Questions: 434659 Slow queries: 0 Opens: 1066 Flush tables: 2 Open tables: 64 Queries per second avg: 0.829

Overvåkning av Linux-servere



■ SSH

- Må installere plugins lokalt på hoster som overvåkes
- ssh-key login for en overvåkningsbruker

■ SNMP


■ NRPE (Nagios Remote Plugin Executor)

- Mulighet for SSL

Host ^v	Service ^v	Status ^v	Last Check ^v	Duration ^v	Attempt ^v	Status Information
HIG1	 Check HTTP	OK	2013-01-28 14:38:58	3d 0h 15m 19s	1/4	HTTP OK: HTTP/1.1 200 OK - 453 bytes in 0.001 second response time
	Check MySQL DB	OK	2013-01-28 14:34:43	3d 0h 14m 34s	1/4	Uptime: 524432 Threads: 3 Questions: 434993 Slow queries: 0 Opens: 1066 Flush tables: 2 Open tables: 64 Queries per second avg: 0.829
	Current Load	OK	2013-01-28 14:37:08	2d 23h 32m 52s	1/4	OK - load average: 0.01, 0.02, 0.00
	Current Users	OK	2013-01-28 14:36:55	3d 0h 13m 4s	1/4	USERS OK - 1 users currently logged in
	Disk Space	OK	2013-01-28 14:36:58	3d 0h 12m 19s	1/4	DISK OK
	SSH	OK	2013-01-28 14:37:43	3d 0h 11m 34s	1/4	SSH OK - OpenSSH_5.5p1 Debian-6+squeeze2 (protocol 2.0)
	Total Processes	OK	2013-01-28 14:39:10	3d 0h 10m 49s	1/4	PROCS OK: 71 processes
	ido2db Process	OK	2013-01-28 14:34:50	3d 0h 15m 4s	1/3	PROCS OK: 2 processes with command name 'ido2db'
HIG2	 Check HTTP	OK	2013-01-28 14:39:09	3d 1h 20m 46s	1/4	HTTP OK: HTTP/1.1 200 OK - 453 bytes in 0.001 second response time
	Check MySQL DB	OK	2013-01-28 14:34:16	3d 1h 20m 1s	1/4	Uptime: 534781 Threads: 1 Questions: 20280 Slow queries: 0 Opens: 1160 Flush tables: 1 Open tables: 64 Queries per second avg: 0.37
	Current Load	OK	2013-01-28 14:37:30	2d 22h 22m 37s	1/4	OK - load average: 0.00, 0.00, 0.00
	Current Users	OK	2013-01-28 14:37:45	3d 1h 18m 31s	1/4	USERS OK - 0 users currently logged in
	Disk Space	OK	2013-01-28 14:35:50	2d 21h 58m 27s	1/4	DISK OK
	SSH	OK	2013-01-28 14:37:16	3d 1h 17m 1s	1/4	SSH OK - OpenSSH_5.5p1 Debian-6+squeeze2 (protocol 2.0)
	Total Processes	OK	2013-01-28 14:34:40	2d 4h 44m 37s	1/4	PROCS OK: 58 processes

Overvåking av Windows-servere

- NSClient++
 - Wrapper for check_nt, NRPE og NSCA
- NC_Net
- checkwmiplus
 - krever WMI-les-rettigheter på hosts

Host ^v	Service ^v	Status ^v	Last Check ^v	Duration ^v	Attempt ^v	Status Information
HIG3	 CPU Load	OK	2013-01-28 14:28:46	3d 1h 14m 30s	1/4	CPU Load 0% (5 min average)
	Disk space	OK	2013-01-28 14:31:46	3d 1h 11m 30s	1/4	c: - total: 39.90 Gb - used: 20.18 Gb (51%) - free 19.72 Gb (49%)
	Memory usage	OK	2013-01-28 14:32:31	3d 1h 10m 45s	1/4	OK memory within bounds.
	Print Spooler	OK	2013-01-28 14:32:44	2d 23h 20m 32s	1/4	spoolsv.exe: Running
	RDP-Sessions: Active	OK	2013-01-28 14:28:41	2d 23h 1m 34s	1/4	0
	RDP-Sessions: Inactive	OK	2013-01-28 14:29:18	2d 23h 10m 5s	1/4	2