



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

LK Cloud – NMS Nagios

Lembar Kerja Peserta Didik

Nama : Muhamad Dzakwan Ar Efendi
NIS : 12209161
Kelas : TJKT XII-3
Judul Materi : Install & Configure NMS Nagios

NILAI

Petunjuk Kerja :

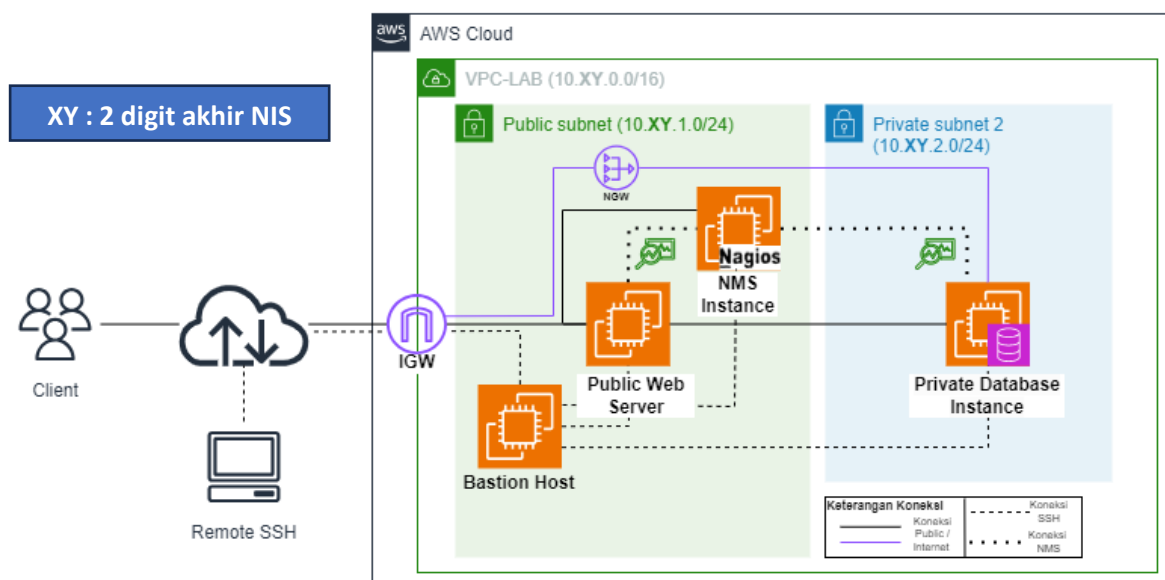
- Menyiapkan Software aplikasi pendukung
- Menyiapkan Laptop / PC
- Menyiapkan Koneksi Internet
- Menyiapkan peralatan Praktek
- Menyiapkan Modul Panduan Kerja (Handout) – Introduction to NMS Nagios

Langkah Kerja

Skenario / Soal

Arsitektur cloud anda sudah berhasil dibangun, saat ini anda membutuhkan sistem pemantauan (monitoring) yang tangguh untuk mendeteksi dan mengelola masalah infrastruktur IT. NMS Nagios bisa anda gunakan untuk monitoring infrastruktur IT, verifikasi sistem, aplikasi, dan service berjalan dengan lancar. Dan memberikan alert ketika terjadi kegagalan.

Topologi Arsitektur Cloud





**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

Ketentuan konfigurasi :

- Konfigurasi nama host (host_name).
Linux-host1 : **Web-Instance-nama**
Linux-host2 : **DB-Instance-nama**
- Konfigurasi user database monitoring.
User-db : nagios**nama** (ex : nagiosagus)
Password : pass123

Dokumentasi dan Pengujian

1. Instal dan konfigurasi NMS Nagios di AWS EC2

No	Keterangan Konfigurasi	Hasil (Gambar)
1	Buat Security Group untuk NMS-Nagios. Name : SG-NMS-Nagios-nama VPC : LAB-VPC	
2	Edit Security Group Web dan DB Instance.	

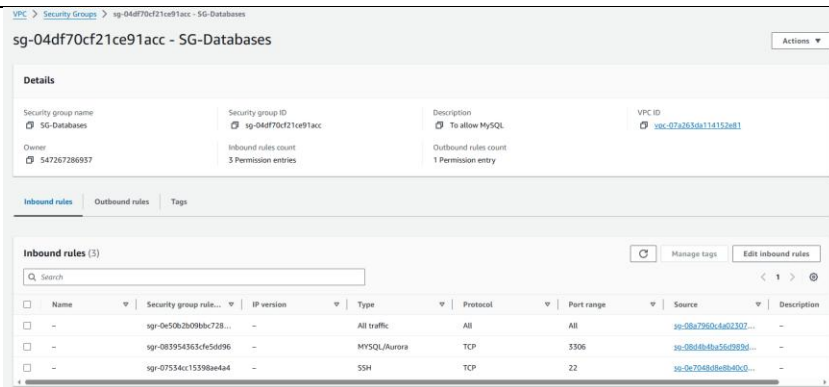
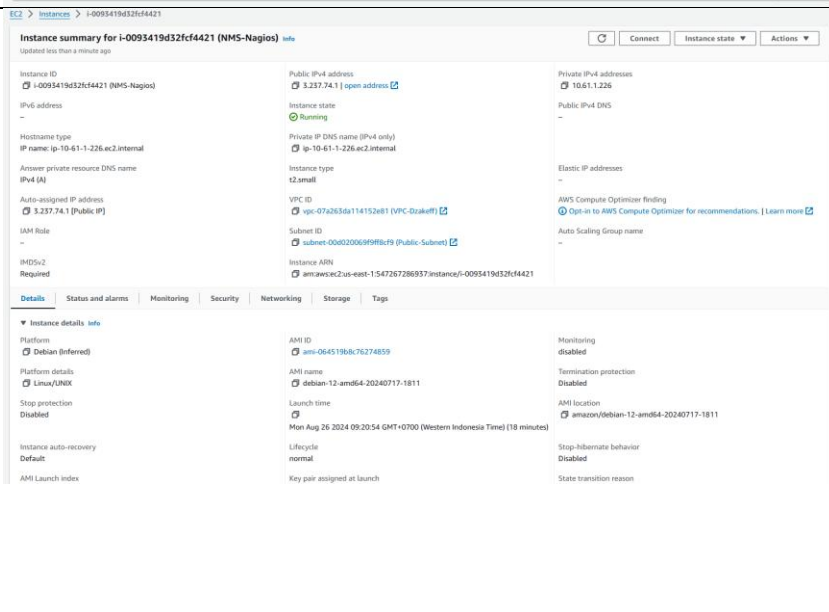


**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		
3	Launch New EC2 Instance. Name : NMS-Nagios-nama ** Screenshoot instance-summary.	

Tabel IP-Address

Nama Instance	IP Public	IP Private
Bastion Host	44.212.51.169	10.61.1.217
Web Server	35.153.39.204	10.61.1.75
Database	-	10.61.2.7
NMS Nagios	3.237.252.181	10.61.1.114



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

4	<p>Pra Install</p> <ul style="list-style-type: none">- Import file.pem ke ssh-agent.- Remote ke BastionHost	<pre>Dzakeff@De11-Dzakwan MINGW64 /d/Sekolah/Tugas/PROD/Key Pair SSH \$ ssh-agent bash Dzakeff@De11-Dzakwan MINGW64 /d/Sekolah/Tugas/PROD/Key Pair SSH \$ ssh-add KP-Databases.pem Identity added: KP-Databases.pem (KP-Databases.pem) Dzakeff@De11-Dzakwan MINGW64 /d/Sekolah/Tugas/PROD/Key Pair SSH \$ ssh-add KP-WebSRV.pem Identity added: KP-WebSRV.pem (KP-WebSRV.pem) Dzakeff@De11-Dzakwan MINGW64 /d/Sekolah/Tugas/PROD/Key Pair SSH \$ ssh-add KP-NMS-Nagios.pem Identity added: KP-NMS-Nagios.pem (KP-NMS-Nagios.pem) Dzakeff@De11-Dzakwan MINGW64 /d/Sekolah/Tugas/PROD/Key Pair SSH \$ ssh -A -i labsuser.pem ubuntu@44.214.43.213 The authenticity of host '44.214.43.213 (44.214.43.213)' can't be established. ED25519 key fingerprint is SHA256:mT/Yq10GqNTtqZ78BbpexgonhJ46wT8e9rtS9wkZGBY. This host key is known by the following other names/addresses: ~/.ssh/known_hosts:7: 44.223.90.15 Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '44.214.43.213' (ED25519) to the list of known hosts. Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64) * Documentation: https://help.ubuntu.com * Management: https://landscape.canonical.com * Support: https://ubuntu.com/pro System information as of Mon Aug 26 02:29:03 UTC 2024 System load: 0.0 Processes: 105 Usage of /: 29.4% of 6.71GB Users logged in: 0 Memory usage: 23% IPv4 address for enX0: 10.61.1.217 Swap usage: 0%</pre>
5	<p>Update package & Install pre-requisites.</p>	<pre>root@ip-10-61-1-226:~# apt update Get:1 file:/etc/apt/mirrors/debian.list Mirrorlist [38 B] Get:5 file:/etc/apt/mirrors/debian-security.list Mirrorlist [47 B] Get:2 https://cdn-aws.deb.debian.org/debian bookworm InRelease [151 kB] Get:3 https://cdn-aws.deb.debian.org/debian bookworm-updates InRelease [55.4 kB] Get:4 https://cdn-aws.deb.debian.org/debian bookworm-backports InRelease [56.6 kB] Get:6 https://cdn-aws.deb.debian.org/debian-security bookworm-security InRelease [48.0 kB] Get:7 https://cdn-aws.deb.debian.org/debian bookworm/main Sources [9485 kB] Get:8 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 Packages [8788 kB] Get:9 https://cdn-aws.deb.debian.org/debian bookworm/main Translation-en [6109 kB] Get:10 https://cdn-aws.deb.debian.org/debian bookworm-updates/main Sources [17.9 kB] Get:11 https://cdn-aws.deb.debian.org/debian bookworm-updates/main amd64 Packages [13.8 kB] Get:12 https://cdn-aws.deb.debian.org/debian bookworm-updates/main Translation-en [16.0 kB] Get:13 https://cdn-aws.deb.debian.org/debian bookworm-backports/main Sources [248 kB] Get:14 https://cdn-aws.deb.debian.org/debian bookworm-backports/main amd64 Packages [233 kB] Get:15 https://cdn-aws.deb.debian.org/debian bookworm-backports/main Translation-en [192 kB] Get:16 https://cdn-aws.deb.debian.org/debian-security bookworm-security/main Sources [108 kB] Get:17 https://cdn-aws.deb.debian.org/debian-security bookworm-security/main amd64 Packages [176 kB] Get:18 https://cdn-aws.deb.debian.org/debian-security bookworm-security/main Translation-en [106 kB] Fetched 25.8 MB in 4s (6612 kB/s) Reading package lists... Done Building dependency tree... Done Reading state information... Done 2 packages can be upgraded. Run 'apt list --upgradable' to see them.</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		<pre>root@ip-10-61-1-226:~# apt list autoconf automake gcc libc6 libmcrypto-dev make libssl1 libnet-snmp-perl gettext libmariadb-dev apache2 php libapache2-mod-php8.2 fping libgd- Listing... Done apache2/stable-security,now 2.4.61-1~deb12u1 amd64 [installed] autoconf/stable,now 2.71-3 all [installed] automake/stable,now 1:1.16.5-1.3 all [installed] bc/stable,now 1.07.1-3+b1 amd64 [installed] build-essential/stable,now 12.9 amd64 [installed] dc/stable,now 1.07.1-3+b1 amd64 [installed] fping/stable,now 5.1-1 amd64 [installed] gawk/stable,now 1:5.2.1-2 amd64 [installed] gcc/stable,now 4:12.2.0-3 amd64 [installed] gettext/stable,now 0.21-12 amd64 [installed] libapache2-mod-php8.2/stable,stable-security,now 8.2.20-1~deb12u1 amd64 [installed] libc6/stable,stable-security,now 2.36-9+deb12u7 amd64 [installed] libgd-dev/stable,now 2.3.3-9 amd64 [installed] libmariadb-dev/stable,now 1:10.11.6-0+deb12u1 amd64 [installed] libmcrypto-dev/stable,now 2.5.8-7 amd64 [installed] libnet-snmp-perl/stable,now 6.0.1-7 all [installed] libssl-dev/stable,now 3.0.13-1~deb12u1 amd64 [installed] make/stable,now 4.3-4.1 amd64 [installed] openssl/stable,now 3.0.13-1~deb12u1 amd64 [installed] php/stable,now 2:8.2+93 all [installed] snmp/stable,now 5.9.3+dfsg-2 amd64 [installed] unzip/stable,now 6.0-28 amd64 [installed] wget/stable,now 1.21.3-1+b2 amd64 [installed] root@ip-10-61-1-226:~#</pre>
Install Nagios Core		
6	Download & extract Nagios-Core	<pre>root@ip-10-61-1-226:~# cd /tmp/ root@ip-10-61-1-226:/tmp# wget -O nagioscore.tar.gz wget: missing URL Usage: wget [OPTION]... [URL]... Try 'wget --help' for more options. root@ip-10-61-1-226:/tmp# wget -O nagioscore.tar.gz https://github.com/Nag tar xzf nagioscore.tar.gz --2024-08-26 03:18:21-- https://github.com/NagiosEnterprises/nagioscore/ Resolving github.com (github.com)... 140.82.112.3 Connecting to github.com (github.com) 140.82.112.3 :443... connected. HTTP request sent, awaiting response... 302 Found Location: https://codeload.github.com/NagiosEnterprises/nagioscore/tar.gz --2024-08-26 03:18:21-- https://codeload.github.com/NagiosEnterprises/na Resolving codeload.github.com (codeload.github.com)... 140.82.112.10 Connecting to codeload.github.com (codeload.github.com) 140.82.112.10 :44 HTTP request sent, awaiting response... 200 OK Length: unspecified [application/x-gzip] Saving to: 'nagioscore.tar.gz' nagioscore.tar.gz [<=>] 2024-08-26 03:18:22 (19.6 MB/s) - 'nagioscore.tar.gz' saved [11341594] root@ip-10-61-1-226:/tmp# root@ip-10-61-1-226:/tmp# tar xzf nagioscore.tar.gz root@ip-10-61-1-226:/tmp#</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

7	<p>Compile & install Nagios-Core</p> <p>**Cantumkan lebih dari satu SS.</p>	<pre>root@ip-10-61-1-226:/tmp# cd /tmp/nagioscore-nagios-4.4.14/ root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# ./configure --with-httpd-conf=/etc/apache2/sites-enabled checking for a BSD-compatible install... /usr/bin/install -c checking build system type... x86_64-pc-linux-gnu checking host system type... x86_64-pc-linux-gnu checking for gcc... gcc checking whether the C compiler works... yes checking for C compiler default output file name... a.out checking for suffix of executables... checking whether we are cross compiling... no checking for suffix of object files... o checking whether we are using the GNU C compiler... yes checking whether gcc accepts -g... yes checking for gcc option to accept ISO C89... none needed checking whether make sets \$(MAKE)... yes checking whether ln -s works... yes checking for strip... /usr/bin/strip checking how to run the C preprocessor... gcc -E checking for grep that handles long lines and -e... /usr/bin/grep checking for egrep... /usr/bin/grep -E checking for ANSI C header files... yes checking whether time.h and sys/time.h may both be included... yes checking for sys/wait.h that is POSIX.1 compatible... yes checking for sys/types.h... yes checking for sys/stat.h... yes checking for stdlib.h... yes checking for string.h... yes checking for memory.h... yes checking for strings.h... yes checking for inttypes.h... yes checking for stdint.h... yes checking forunistd.h... yes checking arpa/inet.h usability... yes checking arpa/inet.h presence... yes checking for arpa/inet.h... yes checking ctype.h usability... yes checking ctype.h presence... yes checking for ctype.h... yes checking dirent.h usability... yes checking dirent.h presence... yes checking for dirent.h... yes checking errno.h usability... yes checking errno.h presence... yes checking for errno.h... yes checking fcntl.h usability... yes checking fcntl.h presence... yes checking for fcntl.h... yes checking getopt.h usability... yes checking getopt.h presence... yes checking for getopt.h... yes checking grp.h usability... yes checking grp.h presence... yes checking for grp.h... yes checking libgen.h usability... yes checking libgen.h presence... yes checking for libgen.h... yes checking limits.h usability... yes checking limits.h presence... yes checking for limits.h... yes checking math.h usability... yes checking math.h presence... yes checking for math.h... yes checking netdb.h usability... yes checking netdb.h presence... yes checking for netdb.h... yes checking netinet/in.h usability... yes checking netinet/in.h presence... yes checking for netinet/in.h... yes checking pwd.h usability... yes checking pwd.h presence... yes checking for pwd.h... yes checking regex.h usability... yes checking regex.h presence... yes checking for regex.h... yes</pre>
---	--	---



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

```
checking signal.h usability... yes
checking signal.h presence... yes
checking for signal.h... yes
checking socket.h usability... no
checking socket.h presence... no
checking for socket.h... no
checking stdarg.h usability... yes
checking stdarg.h presence... yes
checking for stdarg.h... yes
checking for string.h... (cached) yes
checking for strings.h... (cached) yes
checking sys/loadavg.h usability... no
checking sys/loadavg.h presence... no
checking for sys/loadavg.h... no
checking sys/mman.h usability... yes
checking sys/mman.h presence... yes
checking for sys/mman.h... yes
checking for sys/types.h... (cached) yes
checking sys/time.h usability... yes
checking sys/time.h presence... yes
checking for sys/time.h... yes
checking sys/resource.h usability... yes
checking sys/resource.h presence... yes
checking for sys/resource.h... yes
checking for sys/wait.h... (cached) yes
checking sys/socket.h usability... yes
checking sys/socket.h presence... yes
checking for sys/socket.h... yes
checking for sys/stat.h... (cached) yes
checking sys/timeb.h usability... yes
checking sys/timeb.h presence... yes
checking for sys/timeb.h... yes
checking sys/un.h usability... yes
checking sys/un.h presence... yes
checking for sys/un.h... yes
checking sys/ipc.h usability... yes
checking sys/ipc.h presence... yes
checking for sys/ipc.h... yes
checking sys/msg.h usability... yes
checking sys/msg.h presence... yes
checking for sys/msg.h... yes
checking sys/poll.h usability... yes
checking sys/poll.h presence... yes
checking for sys/poll.h... yes
checking syslog.h usability... yes
checking syslog.h presence... yes
checking for syslog.h... yes
checking uio.h usability... no
checking uio.h presence... no
checking for uio.h... no
checking for unistd.h... (cached) yes
checking locale.h usability... yes
checking locale.h presence... yes
checking for locale.h... yes
checking wchar.h usability... yes
checking wchar.h presence... yes
checking for wchar.h... yes
checking sys/prctl.h usability... yes
checking sys/prctl.h presence... yes
checking for sys/prctl.h... yes
checking for an ANSI C-conforming const... yes
checking whether struct tm is in sys/time.h or time.h... time.h
checking for struct tm.tm_zone... yes
checking for mode_t... yes
checking for pid_t... yes
checking for size_t... yes
checking return type of signal handlers... void
checking for uid_t in sys/types.h... yes
checking type of array argument to getgroups... gid_t
checking what the operating system is ... linux
checking what the distribution type is ... debian
checking what init system is being used ... systemd
checking what inetd is being used ... systemd
checking for which paths to use ... default
checking for which init file to use ... default-service
```




**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

```
checking for which inetd files to use ... default-socket
checking for va_copy... yes
checking for vsnprintf... yes
checking for snprintf... yes
checking for asprintf... yes
checking for vasprintf... yes
checking for sigaction... yes
checking for C99 vsnprintf... yes
checking for library containing getservbyname... none required
checking for library containing connect... none required
checking for initgroups... yes
checking for setenv... yes
checking for strdup... yes
checking for strstr... yes
checking for strtoul... yes
checking for unsetenv... yes
checking for type of socket size... size_t
checking for Kerberos include files... configure: WARNING: could not find include files
checking for pkg-config... pkg-config
checking whether compiling and linking against SSL works... yes
checking for library containing nanosleep... none required
checking for mail... no
checking for RLIMIT_PROC... yes
checking for glibc at least version 2.4... yes
checking sys/epoll.h usability... yes
checking sys/epoll.h presence... yes
checking for sys/epoll.h... yes
checking sys/select.h usability... yes
checking sys/select.h presence... yes
checking for sys/select.h... yes
checking for main in -liconv... no
checking for gdImagePng in -lgd (order 1)... no
checking for gdImagePng in -lgd (order 2)... yes
checking for GD library... yes
checking for gdImageCreateTrueColor in -lgd... yes
checking ltdl.h usability... no
checking ltdl.h presence... no
checking for ltdl.h... no
checking dlfcn.h usability... yes
checking dlfcn.h presence... yes
checking for dlfcn.h... yes
checking for dlopen in -ldl... yes
checking for extra flags needed to export symbols... -Wl,-export-dynamic
checking for linker flags for loadable modules... -shared
checking for traceroute... /usr/sbin/traceroute
checking for type va_list... yes
checking for perl... /usr/bin/perl
checking for unzip... /usr/bin/unzip
configure: creating ./config.status
config.status: creating html/index.php
config.status: creating Makefile
config.status: creating lib/Makefile
config.status: creating base/Makefile
config.status: creating common/Makefile
config.status: creating contrib/Makefile
config.status: creating cgi/Makefile
config.status: creating html/Makefile
config.status: creating module/Makefile
config.status: creating worker/Makefile
config.status: creating worker/ping/Makefile
config.status: creating xdata/Makefile
config.status: creating subst
config.status: creating pkginfo
config.status: creating startup/openrc-init
config.status: creating startup/default-init
config.status: creating startup/default-service
config.status: creating startup/upstart-init
config.status: creating t/Makefile
config.status: creating t-tap/Makefile
config.status: creating include/config.h
config.status: creating lib/snprintf.h
config.status: creating lib/iobroker.h
Creating sample config files in sample-config/ ...
```




**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

	<pre>root@p-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# make all cd ./base && make make[1]: Entering directory '/tmp/nagioscore-nagios-4.4.14/base' gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nagios.o nagios.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o broker.o broker.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o ../common/shared.o ../common/shared.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o query-handler.o query-handler.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o workers.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o flapping.o flapping.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o config.o config.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o commands.o commands.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o events.o events.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xretention-base.o ../data/xsdefault.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o logging.o logging.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o macros-base.o ../common/macros.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o netutils.o netutils.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o notifications.o notifications.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o sehndlers.o sehndlers.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o utils.o utils.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o retention-base.o sretention.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xretention-base.o ../data/xsdefault.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o comments-base.o ../common/comments.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xcomments-base.o ../data/xsdefault.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o objects-base.o ../common/objects.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xobjects-base.o ../data/xsdefault.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o statusdata-base.o ../common/statusdata.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xstatusdata-base.o ../data/xsdefault.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o perfdta-base.o perfdta.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xperfdta-base.o ../data/xsdefault.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o downtime-base.o ../common/downtime.c make -C ../lib make[2]: Entering directory '/tmp/nagioscore-nagios-4.4.14/lib' gcc -Wall -g -O2 -DHAVE_CONFIG_H -c squeue.c -o squeue.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c kvec.c -o kvec.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c iocache.c -o iocache.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c iobroker.c -o iobroker.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c bitmap.c -o bitmap.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c dhash.c -o dhash.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c runcmd.c -o runcmd.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c nsutils.c -o nsutils.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c fanout.c -o fanout.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c prqueue.c -o prqueue.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c worker.c -o worker.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c skiplist.c -o skiplist.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c nsosk.c -o nsosk.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c nspath.c -o nspath.o ar cr libnagios.a squeue.o kvec.o iocache.o iobroker.o bitmap.o dhash.o runcmd.o nsutils.o fanout.o prqueue.o worker.o skiplist.o nsosk.o nspath.o make[2]: Leaving directory '/tmp/nagioscore-nagios-4.4.14/lib' gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -o nagios nagios.o broker.o nebmods.o ../common/shared.o query-handler.o workers.o checks.o config.o commands.o events.o flapping.o logging.o macros-base.o netutils.o notifications.o sehndlers.o utils.o retention-base.o xretention-base.o comments-base.o xcomments-base.o objects-base.o xobjects-base.o statusdata-base.o xstatusdata-base.o perfdta-base.o xperfdta-base.o downtime-base.o -Wl,-export-dynamic -lm -ldl -lssl -lcrypto ../lib/libnagios.a gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCORE -o nagiosstats nagiosstats.c -lm -lssl -lcrypto ../lib/libnagios.a make[1]: Leaving directory '/tmp/nagioscore-nagios-4.4.14/base' cd ./cgi && make make[1]: Entering directory '/tmp/nagioscore-nagios-4.4.14/cgi' gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o getcgi.o getcgi.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o cgiutils.o cgiutils.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o cgiauth.o cgiauth.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o macros-cgi.o ../common/macros.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o objects-cgi.o ../common/objects.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o xobjects-cgi.o ../data/xsdefault.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o statusdata-cgi.o ../common/statusdata.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o xstatusdata-cgi.o ../data/xsdefault.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o comments-cgi.o ../common/comments.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -c -o downtime-cgi.o ../common/downtime.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -DJSON_NAGIOS_4X -c -o archiveutils.o archiveutils.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -DJSON_NAGIOS_4X -c -o jsonutils.o jsonutils.c gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -DJSON_NAGIOS_4X -c -o archivejson.cgi archivejson.c ../common/shared.o getcgi.o cgiutils.o cgiauth.o macros-cgi.o objects-cgi.o xobjects-cgi.o statusdata-cgi.o xstatusdata-cgi.o comments-cgi.o downtime-cgi.o ../lib/libnagios.a archiveutils.o jsonutils.o -lssl -lcrypto gcc -Wall -I. -g -O2 -DHAVE_CONFIG_H -DNSCGI -o avail.cgi avail.c ../common/shared.o getcgi.o cgiutils.o cgiauth.o macros-cgi.o ob</pre>
--	---



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

```
inflating: angular-1.5.9/version.txt
(cd angularjs && unzip -u ui-utils-0.2.3.zip)
Archive: ui-utils-0.2.3.zip
125cb72d692f9f116454f38f6a5471f3088f9b9
  creating: ui-utils-0.2.3/
  inflating: ui-utils-0.2.3/.travis.yml
  inflating: ui-utils-0.2.3/CHANGELOG.md
  inflating: ui-utils-0.2.3/bower.json
  inflating: ui-utils-0.2.3/ui-utils-ieshiv.js
  inflating: ui-utils-0.2.3/ui-utils-ieshiv.min.js
  inflating: ui-utils-0.2.3/ui-utils.js
  inflating: ui-utils-0.2.3/ui-utils.min.js
if [ ! -d bootstrap-3.3.7 ]; then mkdir -p bootstrap-3.3.7 && ( cd bootstrap-3.3.7 && unzip -u ../bootstrap-3.3.7-dist.zip && mv dist
if - && mkdir dist ) ; fi
Archive: ../bootstrap-3.3.7-dist.zip
  creating: dist/
  creating: dist/fonts/
  inflating: dist/fonts/glyphicons-halflings-regular.woff
  inflating: dist/fonts/glyphicons-halflings-regular.woff2
  inflating: dist/fonts/glyphicons-halflings-regular.eot
  inflating: dist/fonts/glyphicons-halflings-regular.svg
  inflating: dist/fonts/glyphicons-halflings-regular.ttf
  creating: dist/js/
  inflating: dist/js/bootstrap.min.js
  inflating: dist/js/npm.js
  inflating: dist/js/bootstrap.js
  creating: dist/css/
  inflating: dist/css/bootstrap.css.map
  inflating: dist/css/bootstrap.min.css.map
  inflating: dist/css/bootstrap-theme.css
  inflating: dist/css/bootstrap-theme.min.css.map
  inflating: dist/css/bootstrap-theme.css.map
  inflating: dist/css/bootstrap.min.css
  inflating: dist/css/bootstrap-theme.min.css
  inflating: dist/css/bootstrap.css
  mkdir -p d3
(cd d3 && unzip -u ../d3-3.5.17.zip)
Archive: ../d3-3.5.17.zip
  inflating: bower.json
  inflating: d3.js
  inflating: d3.min.js
  inflating: LICENSE
  inflating: README.md
make[1]: Leaving directory '/tmp/nagioscore-nagios-4.4.14/html'
if [ xyes = yes ]; then \
  cd ./module && make; \
fi
make[1]: Entering directory '/tmp/nagioscore-nagios-4.4.14/module'
gcc -L. -fPIC -g -O2 -DHAVE_CONFIG_H -o helloworld.o helloworld.c -shared -lssl -lcrypto
make[1]: Leaving directory '/tmp/nagioscore-nagios-4.4.14/module'
cd ./worker && make all
make[1]: Entering directory '/tmp/nagioscore-nagios-4.4.14/worker'
cd ./ping && make all
make[2]: Entering directory '/tmp/nagioscore-nagios-4.4.14/worker/ping'
gcc -L. -I ../.. -include -I ../.. -g -O2 -DHAVE_CONFIG_H -o worker-ping worker-ping.c -L ../lib -l nagios -lssl -lcrypto
make[2]: Leaving directory '/tmp/nagioscore-nagios-4.4.14/worker/ping'
make[1]: Leaving directory '/tmp/nagioscore-nagios-4.4.14/worker'

*** Exfoliation theme installed ***
NOTE: Use 'make install-classicui' to revert to classic Nagios theme

make[1]: Leaving directory '/tmp/nagioscore-nagios-4.4.14'
make install-basic
make[1]: Entering directory '/tmp/nagioscore-nagios-4.4.14'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var/archives
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var/spool/checkresults
chmod g+s /usr/local/nagios/var/spool/checkresults

*** Main program, CGIs and HTML files installed ***

You can continue with installing Nagios as follows (type 'make'
without any arguments for a list of all possible options):

  make install-init
    - This installs the init script in /lib/systemd/system

  make install-commandmode
    - This installs and configures permissions on the
      directory for holding the external command file

  make install-config
    - This installs sample config files in /usr/local/nagios/etc

make[1]: Leaving directory '/tmp/nagioscore-nagios-4.4.14'
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# |
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# make install-daemoninit
/usr/bin/install -c -m 755 -d -o root -g root /lib/systemd/system
/usr/bin/install -c -m 755 -o root -g root startup/default-service /lib/systemd/system/nagios.service
Created symlink /etc/systemd/system/multi-user.target.wants/nagios.service - /lib/systemd/system/nagios.service.

*** Init script installed ***
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# |
```



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

```
*** Main program, CGIs and HTML files installed ***
```

```
You can continue with installing Nagios as follows (type 'make'
without any arguments for a list of all possible options):
```

```
make install-init
- This installs the init script in /lib/systemd/system

make install-commandmode
- This installs and configures permissions on the
  directory for holding the external command file

make install-config
- This installs sample config files in /usr/local/nagios/etc
```

```
make[1]: Leaving directory '/tmp/nagioscore-nagios-4.4.14'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw
```

```
*** External command directory configured ***
```

```
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# make install-commandmode
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw
```

```
*** External command directory configured ***
```

```
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# |
```

```
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# make install-config
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc/objects
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/nagios.cfg /usr/local/nagios
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/cgi.cfg /usr/local/nagios/et
/usr/bin/install -c -b -m 660 -o nagios -g nagios sample-config/resource.cfg /usr/local/nagi
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/templates.cf
cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/commands.cf
g
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/contacts.cf
g
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/timeperiods.
ods.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/localhost.cf
cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/windows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/printer.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/switch.cfg /
```

```
*** Config files installed ***
```

```
Remember, these are "SAMPLE" config files. You'll need to read
the documentation for more information on how to actually define
services, hosts, etc. to fit your particular needs.
```

```
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14#
```

```
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# make install-webconf
/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/apache2/sites-enabled/nagios.conf
if [ 0 -eq 1 ]; then \
    ln -s /etc/apache2/sites-enabled/nagios.conf /etc/apache2/sites-enabled/nagios.conf;
fi
```

```
*** Nagios/Apache conf file installed ***
```

```
root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14#
```



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

8 Ringkasan hasil compile nagios-core.

*** Configuration summary for nagios 4.4.14 2023-08-01 ***:

General Options:

```
-----
Nagios executable: nagios
Nagios user/group: nagios,nagios
Command user/group: nagios,nagios
Event Broker: yes
Install ${prefix}: /usr/local/nagios
Install ${includedir}: /usr/local/nagios/include/nagios
Lock file: /run/nagios.lock
Check result directory: /usr/local/nagios/var/spool/checkresults
Init directory: /lib/systemd/system
Apache conf.d directory: /etc/apache2/sites-enabled
Mail program: /bin/mail
Host OS: linux-gnu
IOBroker Method: epoll
```

Web Interface Options:

```
-----
HTML URL: http://localhost/nagios/
CGI URL: http://localhost/nagios/cgi-bin/
Traceroute (used by WAP): /usr/sbin/traceroute
```

Review the options above for accuracy. If they look okay,
type 'make all' to compile the main program and CGIs.

root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# |



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

*** Compile finished ***

If the main program and CGIs compiled without any errors, you can continue with testing or installing Nagios as follows (type 'make' without any arguments for a list of all possible options):

make test

- This runs the test suite

make install

- This installs the main program, CGIs, and HTML files

make install-init

- This installs the init script in /lib/systemd/system

make install-daemoninit

- This will initialize the init script
in /lib/systemd/system

make install-groups-users

- This adds the users and groups if they do not exist

make install-commandmode

- This installs and configures permissions on the
directory for holding the external command file

make install-config

- This installs *SAMPLE* config files in /usr/local/nagios/etc
You'll have to modify these sample files before you can
use Nagios. Read the HTML documentation for more info
on doing this. Pay particular attention to the docs on
object configuration files, as they determine what/how
things get monitored!

make install-webconf

- This installs the Apache config file for the Nagios
web interface

make install-exfoliation

- This installs the Exfoliation theme for the Nagios
web interface

make install-classicui

- This installs the classic theme for the Nagios
web interface

*** Support Notes *****

If you have questions about configuring or running Nagios,
please make sure that you:

- Look at the sample config files
- Read the documentation on the Nagios Library at:
<https://library.nagios.com>

before you post a question to one of the mailing lists.
Also make sure to include pertinent information that could
help others help you. This might include:

- What version of Nagios you are using
- What version of the plugins you are using
- Relevant snippets from your config files
- Relevant error messages from the Nagios log file

For more information on obtaining support for Nagios, visit:

<https://support.nagios.com>

Enjoy.

root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# |



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

9	Rewrite module & cgi	<pre>root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# a2enmod rewrite Enabling module rewrite. To activate the new configuration, you need to run: systemctl restart apache2 root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# a2enmodcgi -bash: a2enmodcgi: command not found root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# a2enmod cgi Enabling module cgi. To activate the new configuration, you need to run: systemctl restart apache2 root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# </pre>
10	Set password nagiosadmin.	<pre>root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin New password: Re-type new password: Adding password for user nagiosadmin root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# </pre> <pre>admin@ip-10-61-1-114: ~ GNU nano 7.2 /usr/local/nagios/etc/htpasswd.users * nagiosdzakeff:\$apr1\$y6UcYcMu\$GBhOG6PyAgHuE4P0FUb6L0</pre>
11	Start service apache2	<pre>root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# systemctl start apache2 root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# systemctl start nagios.service root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# </pre>
12	Start service nagios	<pre>root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# systemctl start apache2 root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# systemctl start nagios.service root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# </pre>
Install Nagios-Plugins		
13	Install pre-requisites package	<pre>root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# apt list autoconf g essential snmp libnet-snmp-perl gettext Listing... Done autoconf/stable,now 2.71-3 all [installed] bc/stable,now 1.07.1-3+b1 amd64 [installed] build-essential/stable,now 12.9 amd64 [installed] dc/stable,now 1.07.1-3+b1 amd64 [installed] gawk/stable,now 1:5.2.1-2 amd64 [installed] gcc/stable,now 4:12.2.0-3 amd64 [installed] gettext/stable,now 0.21-12 amd64 [installed] libc6/stable,stable-security,now 2.36-9+deb12u7 amd64 [installed] libmcrypt-dev/stable,now 2.5.8-7 amd64 [installed] libnet-snmp-perl/stable,now 6.0.1-7 all [installed] libssl-dev/stable,now 3.0.13-1~deb12u1 amd64 [installed] make/stable,now 4.3-4.1 amd64 [installed] snmp/stable,now 5.9.3+dfsg-2 amd64 [installed] wget/stable,now 1.21.3-1+b2 amd64 [installed] root@ip-10-61-1-226:/tmp/nagioscore-nagios-4.4.14# </pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

14	Download & extract Nagios-Plugins.	<pre>root@ip-10-61-1-226:/tmp# wget --no-check-certificate -O nagios-plugins.tar.gz https://github.com/nagios-plugins/nagios-plugins/archive/2.4.6.tar.gz --2024-08-26 05:19:28-- https://github.com/nagios-plugins/nagios-plugins/archive/2.4.6.tar.gz Resolving github.com (github.com)... 140.82.112.3 Connecting to github.com (github.com)[140.82.112.3]:443... connected. HTTP request sent, awaiting response... 302 Found Location: https://codeload.github.com/nagios-plugins/nagios-plugins/tar.gz/refs/tags/release-2.4.6 [following] --2024-08-26 05:19:28-- https://codeload.github.com/nagios-plugins/nagios-plugins/tar.gz/refs/tags/release-2.4.6 Resolving codeload.github.com (codeload.github.com)... 140.82.112.9 Connecting to codeload.github.com (codeload.github.com)[140.82.112.9]:443... connected. HTTP request sent, awaiting response... 200 OK Length: unspecified [application/x-gzip] Saving to: 'nagios-plugins.tar.gz' nagios-plugins.tar.gz [<>] 2.00M 11.6MB/s in 0.2s 2024-08-26 05:19:28 (11.6 MB/s) - 'nagios-plugins.tar.gz' saved [2095974] root@ip-10-61-1-226:/tmp# root@ip-10-61-1-226:/tmp# tar xzf nagios-plugins.tar.gz root@ip-10-61-1-226:/tmp#</pre>
15	Compile & Install Nagios-Plugins **Cantumkan lebih dari satu SS	<pre>root@ip-10-61-1-226:/tmp/nagios-plugins-release-2.4.6# ./tools/setup Found GNU Make at /usr/bin/gmake ... good. configure.ac:46: installing 'build-aux/compile' configure.ac:12: installing 'build-aux/config.guess' configure.ac:12: installing 'build-aux/config.sub' configure.ac:9: installing 'build-aux/install-sh' configure.ac:9: installing 'build-aux/missing' Makefile.am: installing './INSTALL' gl/Makefile.am: installing 'build-aux/depcomp' parallel-tests: installing 'build-aux/test-driver' configure.ac:47: warning: The macro 'AC_GNU_SOURCE' is obsolete. configure.ac:47: You should run autoupdate. ./lib/autoconf/specific.m4:312: AC_GNU_SOURCE is expanded from... gl/m4/gnulib-comp.m4:34: gl_EARLY is expanded from... configure.ac:47: the top level configure.ac:47: warning: The macro 'AC_HELP_STRING' is obsolete. configure.ac:47: You should run autoupdate. ./lib/autoconf/general.m4:204: AC_HELP_STRING is expanded from... gl/m4/threadlib.m4:36: gl_THREADLIB_EARLY_BODY is expanded from... gl/m4/threadlib.m4:29: gl_THREADLIB_EARLY is expanded from... gl/m4/gnulib-comp.m4:34: gl_EARLY is expanded from... configure.ac:47: the top level configure.ac:49: warning: The macro 'AC_PROG_LIBTOOL' is obsolete. configure.ac:49: You should run autoupdate. gl/m4/libtool.m4:107: AC_PROG_LIBTOOL is expanded from... configure.ac:49: the top level configure.ac:119: warning: The macro 'AC_HELP_STRING' is obsolete. configure.ac:119: You should run autoupdate. ./lib/autoconf/general.m4:204: AC_HELP_STRING is expanded from... m4/ax_with_python.m4:14: AX_WITH_PYTHON is expanded from... configure.ac:119: the top level configure.ac:135: warning: The macro 'AC_HELP_STRING' is obsolete. configure.ac:135: You should run autoupdate. ./lib/autoconf/general.m4:204: AC_HELP_STRING is expanded from... configure.ac:135: the top level configure.ac:177: warning: The macro 'AC_HELP_STRING' is obsolete.</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

```
admin@ip-10-61-1-226: ~  
root@ip-10-61-1-226:/tmp# cd nagios-plugins-release-2.4.6/  
root@ip-10-61-1-226:/tmp/nagios-plugins-release-2.4.6# ./configure  
checking for a BSD-compatible install... /usr/bin/install -c  
checking whether build environment is sane... yes  
checking for a race-free mkdir -p... /usr/bin/mkdir -p  
checking for gawk... gawk  
checking whether make sets $(MAKE)... yes  
checking whether make supports nested variables... yes  
checking whether to enable maintainer-specific portions of Makefiles... yes  
checking build system type... x86_64-pc-linux-gnu  
checking host system type... x86_64-pc-linux-gnu  
checking for gcc... gcc  
checking whether the C compiler works... yes  
checking for C compiler default output file name... a.out  
checking for suffix of executables...  
checking whether we are cross compiling... no  
checking for suffix of object files... o  
checking whether the compiler supports GNU C... yes  
checking whether gcc accepts -g... yes  
checking for gcc option to enable C11 features... none needed  
checking whether gcc understands -c and -o together... yes  
checking whether make supports the include directive... yes (GNU style)  
checking dependency style of gcc... gcc3  
checking how to run the C preprocessor... gcc -E  
checking for grep that handles long lines and -e... /usr/bin/grep  
checking for egrep... /usr/bin/grep -E  
checking for Minix Amsterdam compiler... no  
checking for ar... ar  
checking for ranlib... ranlib  
checking for stdio.h... yes  
checking for stdlib.h... yes  
checking for string.h... yes  
checking for inttypes.h... yes  
checking for stdint.h... yes  
checking for strings.h... yes  
checking for sys/stat.h... yes  
  
admin@ip-10-61-1-226: ~  
..../gl/openssl.h:94:1: warning: 'SHA1_Final' is deprecated: Since OpenSSL 3.0 [-Wdeprecated-declarations]  
94 | { OPENSSL_FN (_Final) ((unsigned char *) res, (_gl_Ctx *) ctx); return res; }  
    | ^  
/usr/include/openssl/sha.h:51:27: note: declared here  
51 | OSSL_DEPRECATEDIN_3_0 int SHA1_Final(unsigned char *md, SHA_CTX *c);  
    | ^  
..../gl/openssl.h: In function 'sha1_read_ctx':  
..../gl/openssl.h:108:3: warning: 'SHA1_Final' is deprecated: Since OpenSSL 3.0 [-Wdeprecated-declarations]  
108 | OPENSSL_FN (_Final) ((unsigned char *) res, &tmp_ctx);  
    | ^  
/usr/include/openssl/sha.h:51:27: note: declared here  
51 | OSSL_DEPRECATEDIN_3_0 int SHA1_Final(unsigned char *md, SHA_CTX *c);  
    | ^  
mv -f .deps/check_icmp.Tpo .deps/check_icmp.Po  
/bin/bash ../libtool --tag=CC --mode=link gcc -DNP_VERSION='"2.4.6.git"' -g -O2 -L -o check_icmp check_icmp.o ../plug  
o.o ../plugins/utills.o ../lib/libnagiosplug.a ../gl/libgnu.a -lnsl -lresolv -lnsl -lresolv -lssl -lcrypto -lpthread -ldl  
libtool: link: gcc -DNP_VERSION='"2.4.6.git"' -g -O2 -o check_icmp check_icmp.o ../plugins/netutills.o ../plugins/utills.o  
libnagiosplug.a ../gl/libgnu.a -lnsl -lresolv -lssl -lcrypto -lpthread -ldl  
make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins-root'  
Making all in po  
make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6/po'  
test ! -f ./nagios-plugins.pot || \  
test -z "fr.gmo de.gmo" || make fr.gmo de.gmo  
make[3]: Entering directory '/tmp/nagios-plugins-release-2.4.6/po'  
cd . && rm -f fr.gmo && /usr/bin/msgfmt -c --statistics -o t-fr.gmo fr.po && (mv t-fr.gmo fr.gmo 2>/dev/null || true)  
fr.po:10: warning: header field 'Language' still has the initial default value  
761 translated messages, 125 fuzzy translations, 560 untranslated messages.  
cd . && rm -f de.gmo && /usr/bin/msgfmt -c --statistics -o t-de.gmo de.po && (mv t-de.gmo de.gmo 2>/dev/null || true)  
71 translated messages, 208 fuzzy translations, 1167 untranslated messages.  
make[3]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/po'  
touch stamp-po  
make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/po'  
make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6'  
make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6'  
make[3]: Leaving directory '/tmp/nagios-plugins-release-2.4.6'  
root@ip-10-61-1-226:/tmp/nagios-plugins-release-2.4.6#
```



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		<pre>admin@ip-10-61-1-226: ~ make[2]: Nothing to be done for 'all'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/tap' Making all in lib make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6/lib' Making all in . make[3]: Entering directory '/tmp/nagios-plugins-release-2.4.6/lib' make[3]: Nothing to be done for 'all-am'. make[3]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/lib' Making all in tests make[3]: Entering directory '/tmp/nagios-plugins-release-2.4.6/lib/tests' make[3]: Nothing to be done for 'all'. make[3]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/lib/tests' make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/lib' Making all in plugins make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6/plugins' 2.4.6.git make[2]: Nothing to be done for 'all'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins' Making all in plugins-scripts make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6/plugins-scripts' 2.4.6.git make[2]: Nothing to be done for 'all'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins-scripts' Making all in plugins-root make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6/plugins-root' 2.4.6.git make[2]: Nothing to be done for 'all'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins-root' Making all in po make[2]: Nothing to be done for 'all'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/po' make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6' make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6' make[1]: Leaving directory '/tmp/nagios-plugins-release-2.4.6' root@ip-10-61-1-226:/tmp/nagios-plugins-release-2.4.6#</pre>
Install check_nrpe-plugins		
16	Download & extract check_nrpe-plugins.	<pre>try 'wget --help' for more options. root@ip-10-61-1-226:/tmp# wget --no-check-certificate -O nagios-nrpe.tar.gz https://github.com/NagiosEnterprises/nrpe/releases/download/nrpe-4.1.0/nrpe-4.1.0.tar.gz --2024-08-26 05:34:59-- https://github.com/NagiosEnterprises/nrpe/releases/download/nrpe-4.1.0/nrpe-4.1.0.tar.gz Resolving github.com (github.com)... 140.82.113.3 Connecting to github.com (github.com) 140.82.113.3 :443... connected. HTTP request sent, awaiting response... 302 Found Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/16119653/15952b1c-13e6-4e48-939d-292348427f8c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=aws4_request&X-Amz-Date=20240826T053500Z&X-Amz-Expires=300&X-Amz-Signature=09c8c39e3b3af9cf6c42b80907a5416de3b6949627f25752ab4c0a090970185&X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=16119653&response-content-disposition=attachment%3Bfilename%3Dnrpe-4.1.0.tar.gz&response-content-type=application%2Foctet-stream [following] --2024-08-26 05:35:00-- https://objects.githubusercontent.com/github-production-release-asset-2e65be/16119653/15952b1c-13e6-4e48-939d-292348427f8c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=aws4_request&X-Amz-Date=20240826T053500Z&X-Amz-Expires=300&X-Amz-Signature=09c8c39e3b3af9cf6c42b80907a5416de3b6949627f25752ab4c0a090970185&X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=16119653&response-content-disposition=attachment%3Bfilename%3Dnrpe-4.1.0.tar.gz&response-content-type=application%2Foctet-stream Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.111.133, 185.199.108.133, 185.199.109.133, ... Connecting to objects.githubusercontent.com (objects.githubusercontent.com) 185.199.111.133 :443... connected. HTTP request sent, awaiting response... 200 OK Length: 528228 (516K) [application/octet-stream] Saving to: 'nagios-nrpe.tar.gz' nagios-nrpe.tar.gz 100%[=====] 515.85K --.-KB/s in 0.02s 2024-08-26 05:35:00 (27.4 MB/s) - 'nagios-nrpe.tar.gz' saved [528228/528228] root@ip-10-61-1-226:/tmp# tar xzf nagios-nrpe.tar.gz root@ip-10-61-1-226:/tmp#</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

17 Compile & Install check_nrpe-
plugins.

**Cantumkan lebih dari satu SS.

admin@ip-10-61-1-226: ~

```
root@ip-10-61-1-226:/tmp# tar xzf nagios-nrpe.tar.gz
root@ip-10-61-1-226:/tmp# cd nrpe-4.1.0/
root@ip-10-61-1-226:/tmp/nrpe-4.1.0# ./configure
-bash: ./configure: command not found
root@ip-10-61-1-226:/tmp/nrpe-4.1.0# ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking what the operating system is ... linux
checking what the distribution type is ... debian
checking what init system is being used ... systemd
checking what inetd is being used ... systemd
checking for which paths to use ... default
checking for which init file to use ... default-service
checking for which inetd files to use ... default-socket
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking whether make sets $(MAKE)... yes
checking how to run the C preprocessor... gcc -E
checking for grep that handles long lines and -e... /usr/bin/grep
checking for egrep... /usr/bin/grep -E
checking for ANSI C header files... yes
checking whether time.h and sys/time.h may both be included... yes
checking for sys/wait.h that is POSIX.1 compatible... yes
checking for sys/types.h... yes
checking for sys/stat.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
```

```
root@ip-10-61-1-226:/tmp/nrpe-4.1.0# make check_nrpe
cd ./src; make
make[1]: Entering directory '/tmp/nrpe-4.1.0/src'
gcc -g -O2 -DHAVE_CONFIG_H -I ../include -I ../include -o nrpe ./nrpe.c ./utils.c ./acl.c -lssl -lcrypto -lnsl
gcc -g -O2 -DHAVE_CONFIG_H -I ../include -I ../include -o check_nrpe ./check_nrpe.c ./utils.c -lssl -lcrypto -lnsl
make[1]: Leaving directory '/tmp/nrpe-4.1.0/src'
root@ip-10-61-1-226:/tmp/nrpe-4.1.0#
root@ip-10-61-1-226:/tmp/nrpe-4.1.0# make install-plugin
cd ./src; make install-plugin
make[1]: Entering directory '/tmp/nrpe-4.1.0/src'
/usr/bin/install -c -m 755 -d /usr/local/nagios/bin
/usr/bin/install -c -m 755 ../uninstall /usr/local/nagios/bin/nrpe-uninstall
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec
/usr/bin/install -c -m 775 -o nagios -g nagios check_nrpe /usr/local/nagios/libexec
make[1]: Leaving directory '/tmp/nrpe-4.1.0/src'
root@ip-10-61-1-226:/tmp/nrpe-4.1.0#
```



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

18	Ringkasan hasil instalasi check_nrpe-plugins.	<pre>*** Configuration summary for nrpe 4.1.0 2022-07-18 ***: General Options: ----- NRPE port: 5666 NRPE user: nagios NRPE group: nagios Nagios user: nagios Nagios group: nagios Review the options above for accuracy. If they look okay, type 'make all' to compile the NRPE daemon and client or type 'make' to get a list of make options. root@ip-10-61-1-226:/tmp/nrpe-4.1.0# </pre>
19	Konfigurasi file nagios.cfg	<pre>make[1]: Leaving directory '/tmp/nrpe-4.1.0/src' root@ip-10-61-1-226:/tmp/nrpe-4.1.0# cd /usr/local/nagios/etc root@ip-10-61-1-226:/usr/local/nagios/etc# mkdir -p /usr/local/nagios/etc/servers root@ip-10-61-1-226:/usr/local/nagios/etc# ls cgi.cfg cgi.cfg~ httpasswd.users nagios.cfg nagios.cfg~ objects resource.cfg resource.cfg~ servers root@ip-10-61-1-226:/usr/local/nagios/etc# GNU nano 7.2 nagios.cfg * cfg_file=/usr/local/nagios/etc/objects/localhost.cfg # Definitions for monitoring a Windows machine #cfg_file=/usr/local/nagios/etc/objects/windows.cfg # Definitions for monitoring a router/switch #cfg_file=/usr/local/nagios/etc/objects/switch.cfg # Definitions for monitoring a network printer #cfg_file=/usr/local/nagios/etc/objects/printer.cfg # You can also tell Nagios to process all config files (with a .cfg # extension) in a particular directory by using the cfg_dir # directive as shown below: cfg_dir=/usr/local/nagios/etc/servers #cfg_dir=/usr/local/nagios/etc/printers #cfg_dir=/usr/local/nagios/etc/switches #cfg_dir=/usr/local/nagios/etc/routers</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

20	Konfigurasi file contacts.cfg **gunakan email sch.id	<pre>GNU nano 7.2 objects/contacts.cfg * # definitions. # # You don't need to keep these definitions in a separate file from your # other object definitions. This has been done just to make things # easier to understand. # ##### ##### # CONTACTS # ##### # Just one contact defined by default - the Nagios admin (that's you) # This contact definition inherits a lot of default values from the # 'generic-contact' template which is defined elsewhere. define contact { contact_name nagiosadmin ; Short name of user use generic-contact ; Inherit default values from g alias Nagios Admin ; Full name of user email muhamaddzakwanarefendi@smkwikrama.sch.id ; <<***** CHAN }</pre>
21	Konfigurasi file commands.cfg	<pre>admin@ip-10-61-1-226: ~ GNU nano 7.2 objects/commands.cfg * ##### # # SAMPLE PERFORMANCE DATA COMMANDS # # These are sample performance data commands that can be used to send performance # data output to two text files (one for hosts, another for services). If you # plan on simply writing performance data out to a file, consider using the # host_perfdata_file and service_perfdata_file options in the main config file. # ##### define command { command_name process-host-perfdata command_line /usr/bin/printf "%b" "\$LASTHOSTCHECK\$\t\$HOSTNAME\$\t\$HOSTSTATES\t\$ } define command { command_name process-service-perfdata command_line /usr/bin/printf "%b" "\$LASTSERVICECHECK\$\t\$HOSTNAME\$\t\$SERVICEDES } define command{ command_name check_nrpe command_line \$USER1\$/check_nrpe -H \$HOSTADDRESS\$ -c \$ARG1\$ }</pre>

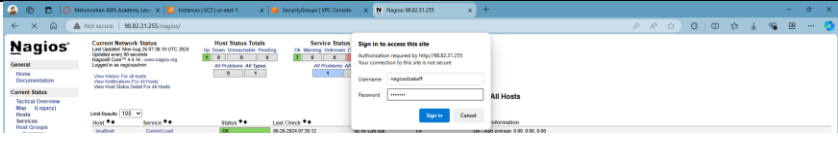
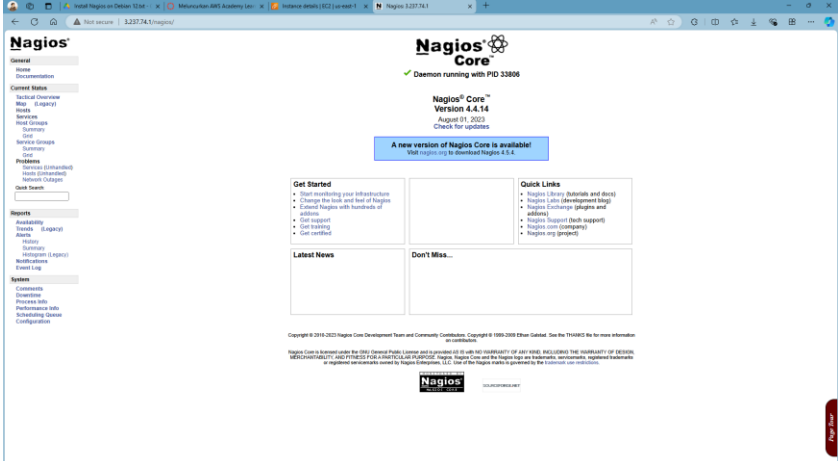
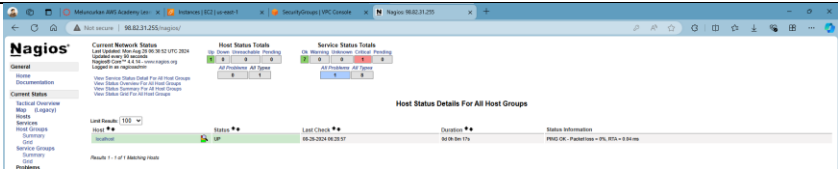


**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

22	Stop, start, enable, restart, dan cek status nagios.service	<pre>root@ip-10-61-1-226:/usr/local/nagios/etc# systemctl stop nagios.service root@ip-10-61-1-226:/usr/local/nagios/etc# systemctl start nagios.service root@ip-10-61-1-226:/usr/local/nagios/etc# systemctl enable nagios.service root@ip-10-61-1-226:/usr/local/nagios/etc# systemctl restart nagios.service root@ip-10-61-1-226:/usr/local/nagios/etc# systemctl status --no-pager nagios.service ● nagios.service - Nagios Core 4.4.14 Loaded: loaded (/lib/systemd/system/nagios.service; enabled; preset: enabled) Active: active (running) since Mon 2024-08-26 05:44:57 UTC; 25s ago Docs: https://www.nagios.org/documentation Process: 33804 ExecStartPre=/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS) Process: 33805 ExecStart=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS) Main PID: 33806 (nagios) Tasks: 6 (limit: 2345) Memory: 14.1M CPU: 24ms CGroup: /system.slice/nagios.service └─33806 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg └─33807 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh └─33808 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh └─33809 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh └─33810 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh └─33811 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: qh: Socket '/usr/local/nagios/var/rw/nagios.qh' successfully initialized Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: qh: core query handler registered Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: qh: echo service query handler registered Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: qh: help for the query handler registered Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: wproc: Successfully registered manager as @wproc with query handler Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: wproc: Registry request: name=Core Worker 33810;pid=33810 Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: wproc: Registry request: name=Core Worker 33809;pid=33809 Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: wproc: Registry request: name=Core Worker 33808;pid=33808 Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: wproc: Registry request: name=Core Worker 33807;pid=33807 Aug 26 05:44:57 ip-10-61-1-226 nagios[33806]: Successfully launched command file worker with pid 33811 root@ip-10-61-1-226:/usr/local/nagios/etc#</pre>
Uji coba 1 – Akses NMS Nagios via Browser		
23	Login ke web interface Nagios.	
24	Tampilan dashboard NMS Nagios.	
25	Akses menu Hosts.	



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

26	Akses menu Services. **Pastikan services OK.	
----	---	--

2. Tambahkan instance **Web Server** untuk di Monitoring dengan NMS Nagios

No	Keterangan Konfigurasi	Hasil (Gambar)
1	Remote SSH ke web instance.	
2	Update & install pre-requisites package.	



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		<pre>root@ip-10-61-1-75:~# apt list autoconf gcc libmbedtls-dev make libssl-dev dc build-essential gettext Listing... Done autoconf/stable,now 2.71-3 all [installed] build-essential/stable,now 12.9 amd64 [installed] dc/stable,now 1.07.1-3+b1 amd64 [installed] gcc/stable,now 4:12.2.0-3 amd64 [installed] gettext/stable,now 0.21-12 amd64 [installed] libmbedtls-dev/stable,now 2.5.8-7 amd64 [installed] libssl-dev/stable,now 3.0.13-1-deb12u1 amd64 [installed] make/stable,now 4.3-4.1 amd64 [installed] root@ip-10-61-1-75:~#</pre>
Install Nagios-Plugins		
3	Download & install Nagios-plugins	<pre>root@ip-10-61-1-75:/tmp# wget --no-check-certificate -O nagios-plugins.tar.gz https://github.com/nagios-plugins/nagios-plugins/archive/ /release-2.4.6.tar.gz --2024-08-26 06:36:02-- https://github.com/nagios-plugins/nagios-plugins/archive/release-2.4.6.tar.gz Resolving github.com (github.com)... 140.82.112.3 Connecting to github.com (github.com)[140.82.112.3]:443... connected. HTTP request sent, awaiting response... 302 Found Location: https://codeload.github.com/nagios-plugins/nagios-plugins/tar.gz/refs/tags/release-2.4.6 [following] --2024-08-26 06:36:02-- https://codeload.github.com/nagios-plugins/nagios-plugins/tar.gz/refs/tags/release-2.4.6 Resolving codeload.github.com (codeload.github.com)... 140.82.113.9 Connecting to codeload.github.com (codeload.github.com)[140.82.113.9]:443... connected. HTTP request sent, awaiting response... 200 OK Length: 2095974 (2.0M) [application/x-gzip] Saving to: 'nagios-plugins.tar.gz' nagios-plugins.tar.gz 100%[=====] 2.00M --.-KB/s in 0.02s 2024-08-26 06:36:03 (82.8 MB/s) - 'nagios-plugins.tar.gz' saved [2095974/2095974] root@ip-10-61-1-75:/tmp# tar xzf nagios-plugins.tar.gz root@ip-10-61-1-75:/tmp#</pre>
4	Compile & Install Nagios-plugins **Cantumkan lebih dari satu SS.	<pre>admin@ip-10-61-1-75: ~ root@ip-10-61-1-75:/tmp/nagios-plugins-release-2.4.6# ./tools/setup -bash: ./tools/setup: No such file or directory root@ip-10-61-1-75:/tmp/nagios-plugins-release-2.4.6# ./tools/setup Found GNU Make at /usr/bin/gmake ... good. configure.ac:46: installing 'build-aux/compile' configure.ac:12: installing 'build-aux/config.guess' configure.ac:12: installing 'build-aux/config.sub' configure.ac:9: installing 'build-aux/install-sh' configure.ac:9: installing 'build-aux/missing' Makefile.am: installing './INSTALL' gl/Makefile.am: installing 'build-aux/depcomp' parallel-tests: installing 'build-aux/test-driver' configure.ac:47: warning: The macro 'AC_GNU_SOURCE' is obsolete. configure.ac:47: You should run autoupdate. ./lib/autoconf/specific.m4:312: AC_GNU_SOURCE is expanded from... gl/m4/gnulib-comp.m4:34: gl_EARLY is expanded from... configure.ac:47: the top level configure.ac:47: warning: The macro 'AC_HELP_STRING' is obsolete. configure.ac:47: You should run autoupdate. ./lib/autoconf/general.m4:204: AC_HELP_STRING is expanded from... gl/m4/threadlib.m4:36: gl_THREADLIB_EARLY_BODY is expanded from... gl/m4/threadlib.m4:29: gl_THREADLIB_EARLY is expanded from... gl/m4/gnulib-comp.m4:34: gl_EARLY is expanded from... configure.ac:47: the top level configure.ac:49: warning: The macro 'AC_PROG_LIBTOOL' is obsolete. configure.ac:49: You should run autoupdate. gl/m4/libtool.m4:107: AC_PROG_LIBTOOL is expanded from... configure.ac:49: the top level configure.ac:119: warning: The macro 'AC_HELP_STRING' is obsolete. configure.ac:119: You should run autoupdate. ./lib/autoconf/general.m4:204: AC_HELP_STRING is expanded from... m4/ax_with_python.m4:14: AX_WITH_PYTHON is expanded from... configure.ac:119: the top level configure.ac:135: warning: The macro 'AC_HELP_STRING' is obsolete. configure.ac:135: You should run autoupdate. ./lib/autoconf/general.m4:204: AC_HELP_STRING is expanded from...</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

admin@ip-10-61-1-75: ~

```
configure.ac:1940: warning: AC_OUTPUT should be used without arguments.
configure.ac:1940: You should run autoupdate.
root@ip-10-61-1-75:/tmp/nagios-plugins-release-2.4.6# ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
checking for a race-free mkdir -p... /usr/bin/mkdir -p
checking for gawk... no
checking for mawk... mawk
checking whether make sets $(MAKE)... yes
checking whether make supports nested variables... yes
checking whether to enable maintainer-specific portions of Makefiles... yes
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether the compiler supports GNU C... yes
checking whether gcc accepts -g... yes
checking for gcc option to enable C11 features... none needed
checking whether gcc understands -c and -o together... yes
checking whether make supports the include directive... yes (GNU style)
checking dependency style of gcc... gcc3
checking how to run the C preprocessor... gcc -E
checking for grep that handles long lines and -e... /usr/bin/grep
checking for egrep... /usr/bin/grep -E
checking for Minix Amsterdam compiler... no
checking for ar... ar
checking for ranlib... ranlib
checking for stdio.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
```

admin@ip-10-61-1-75: ~

```
depbase=`echo c-ctype.o | sed 's|/|$.deps/&;s|\.o$||'`; \
gcc -DHAVE_CONFIG_H -I. -I.. -g -O2 -MT c-ctype.o -MD -MP -MF $depbase.Tpo -c -o c-ctype.o c-ctype.c && \
mv -f $depbase.Tpo $depbase.Po
depbase=`echo c-strncasecmp.o | sed 's|/|$.deps/&;s|\.o$||'`; \
gcc -DHAVE_CONFIG_H -I. -I.. -g -O2 -MT c-strncasecmp.o -MD -MP -MF $depbase.Tpo -c -o c-strncasecmp.o c-strncasecmp.c && \
mv -f $depbase.Tpo $depbase.Po
depbase=`echo c-strncasecmp.o | sed 's|/|$.deps/&;s|\.o$||'`; \
gcc -DHAVE_CONFIG_H -I. -I.. -g -O2 -MT c-strncasecmp.o -MD -MP -MF $depbase.Tpo -c -o c-strncasecmp.o c-strncasecmp.c && \
mv -f $depbase.Tpo $depbase.Po
depbase=`echo sha1.o | sed 's|/|$.deps/&;s|\.o$||'`; \
gcc -DHAVE_CONFIG_H -I. -I.. -g -O2 -MT sha1.o -MD -MP -MF $depbase.Tpo -c -o sha1.o sha1.c && \
mv -f $depbase.Tpo $depbase.Po
In file included from sha1.h:37,
from sha1.c:29:
g1_openssl.h: In function 'sha1_init_ctx':
g1_openssl.h:79:1: warning: 'SHA1_Init' is deprecated: Since OpenSSL 3.0 [-Wdeprecated-declarations]
79 | { (void) OPENSSL_FN (_Init) ((G1_CTX *) ctx); }
    | ^
In file included from sha1.h:26:
/usr/include/openssl/sha.h:49:27: note: declared here
49 | OSSL_DEPRECATEDIN_3_0 int SHA1_Init(SHA_CTX *c);
    | ^
g1_openssl.h: In function 'sha1_process_bytes':
g1_openssl.h:85:1: warning: 'SHA1_Update' is deprecated: Since OpenSSL 3.0 [-Wdeprecated-declarations]
85 | { OPENSSL_FN (_Update) ((G1_CTX *) ctx, buf, len); }
    | ^
/usr/include/openssl/sha.h:50:27: note: declared here
50 | OSSL_DEPRECATEDIN_3_0 int SHA1_Update(SHA_CTX *c, const void *data, size_t len);
    | ^
g1_openssl.h: In function 'sha1_finish_ctx':
g1_openssl.h:94:1: warning: 'SHA1_Final' is deprecated: Since OpenSSL 3.0 [-Wdeprecated-declarations]
94 | { OPENSSL_FN (_Final) ((unsigned char *) res, (G1_CTX *) ctx); return res; }
    | ^
/usr/include/openssl/sha.h:51:27: note: declared here
51 | OSSL_DEPRECATEDIN_3_0 int SHA1_Final(unsigned char *md, SHA_CTX *c);
    | ^
```



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		<pre>admin@ip-10-61-1-75: ~ make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6/plugins-root' 2.4.6.git /usr/bin/install -c check_dhcp /usr/local/nagios/libexec/check_dhcp chown root /usr/local/nagios/libexec/check_dhcp chmod ug=rx,us /usr/local/nagios/libexec/check_dhcp /usr/bin/install -c check_icmp /usr/local/nagios/libexec/check_icmp chown root /usr/local/nagios/libexec/check_icmp chmod ug=rx,us /usr/local/nagios/libexec/check_icmp make[2]: Nothing to be done for 'install-data-am'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins-root' make[1]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins-root' Making install in po make[1]: Entering directory '/tmp/nagios-plugins-release-2.4.6/po' /usr/bin/mkdir -p /usr/local/nagios/share installing fr.gmo as /usr/local/nagios/share/locale/fr/LC_MESSAGES/nagios-plugins.mo installing de.gmo as /usr/local/nagios/share/locale/de/LC_MESSAGES/nagios-plugins.mo if test "nagios-plugins" = "gettext-tools"; then \ /usr/bin/mkdir -p /usr/local/nagios/share/gettext/po; \ for file in Makefile.in.in remove-potcdate.sin Makevars.template; do \ /usr/bin/install -c -m 644 ./file \ /usr/local/nagios/share/gettext/po/\$file; \ done; \ for file in Makevars; do \ rm -f /usr/local/nagios/share/gettext/po/\$file; \ done; \ else \ : ; \ fi make[1]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/po' make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6' make[2]: Nothing to be done for 'install-exec-am'. make[2]: Nothing to be done for 'install-data-am'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6' make[1]: Leaving directory '/tmp/nagios-plugins-release-2.4.6' root@ip-10-61-1-75: /tmp/nagios-plugins-release-2.4.6#</pre>
Install NRPE Agent		
5	Install pre-requisites package.	<pre>admin@ip-10-61-1-75: ~ root@ip-10-61-1-75: /tmp# apt-get install -y autoconf gcc libnc6 libncrypt-dev make libssl-dev wget bc gawk dc build-ess et-snmpp-perl gettext Reading package lists... Done Building dependency tree... Done Reading state information... Done autoconf is already the newest version (2.71-3). gcc is already the newest version (4:12.2.0-3). libnc6 is already the newest version (2.36-9+deb12u7). libncrypt-dev is already the newest version (2.5.8-7). make is already the newest version (4.3-4.1). libssl-dev is already the newest version (3.0.13-1+deb12u1). wget is already the newest version (1.21.3-1+b2). bc is already the newest version (1.07.1-3+b1). dc is already the newest version (1.07.1-3+b1). build-essential is already the newest version (12.9). gettext is already the newest version (0.21-12). The following additional packages will be installed: libsensors-config libsensors5 libsigsegv2 libsnmp-base libsnmp40 Suggested packages: gawk-doc libncrypt-dev-perl libdigest-hmac-perl libio-socket-inet6-perl lm-sensors snmp-mibs-downloader The following NEW packages will be installed: bc gawk libnet-snmpp-perl libsensors-config libsensors5 libsigsegv2 libsnmp-base libsnmp40 snmp 0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded. Need to get 5444 kB of archives. After this operation, 12.3 MB of additional disk space will be used. Get:1 file:/etc/apt/mirrors/debian.list Mirrorlist [38 B] Get:2 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 libsigsegv2 amd64 2.14-1 [37.2 kB] Get:3 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 gawk amd64 1:5.2.1-2 [673 kB] Get:4 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 bc amd64 1.07.1-3+b1 [110 kB] Get:5 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 libnet-snmpp-perl all 6.0.1-7 [94.7 kB] Get:6 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 libsensors-config all 1:3.6.0-7.1 [14.3 kB] Get:7 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 libsensors5 amd64 1:3.6.0-7.1 [34.2 kB] Get:8 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 libsnmp-base all 5.9.3+dfsg-2 [1753 kB] Get:9 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 libsnmp40 amd64 5.9.3+dfsg-2 [2556 kB] Get:10 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 snmp amd64 5.9.3+dfsg-2 [172 kB] Fetched 5444 kB in 0s (41.9 MB/s)</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

6	Download & extract NRPE agent	<pre>root@ip-10-61-1-75:/tmp# wget --no-check-certificate -O nagios-nrpe.tar.gz https://github.com/NagiosEnterprises/nrpe/releases/download/nrpe-4.1.0/nrpe-4.1.0.tar.gz --2024-08-26 06:52:01-- https://github.com/NagiosEnterprises/nrpe/releases/download/nrpe-4.1.0/nrpe-4.1.0.tar.gz Resolving github.com (github.com)... 140.82.114.4 Connecting to github.com (github.com)[140.82.114.4]:443... connected. HTTP request sent, awaiting response... 302 Found Location: https://objects.githubusercontent.com/github-production-release-asset-2665be/16119653/15952b1c-13e6-4e48-939d-292348427f8c7X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20240826%2Fus-east-1%2F%2Faws4_request&X-Amz-Date=20240826T065201Z&X-Amz-Expires=300&X-Amz-Signature=5f371db9ef3b15915e6b56e80562cb279d802790fa97383784a4d7b7332629d36X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=16119653&response-content-disposition=attachment%3B%20filename%3Dnrpe-4.1.0.tar.gz&response-content-type=application%2Foctet-stream [following] --2024-08-26 06:52:01-- https://objects.githubusercontent.com/github-production-release-asset-2665be/16119653/15952b1c-13e6-4e48-939d-292348427f8c7X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20240826%2Fus-east-1%2F%2Faws4_request&X-Amz-Date=20240826T065201Z&X-Amz-Expires=300&X-Amz-Signature=5f371db9ef3b15915e6b56e80562cb279d802790fa97383784a4d7b7332629d36X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=16119653&response-content-disposition=attachment%3B%20filename%3Dnrpe-4.1.0.tar.gz&response-content-type=application%2Foctet-stream Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.108.133, 185.199.109.133, 185.199.110.133, ... Connecting to objects.githubusercontent.com (objects.githubusercontent.com)[185.199.108.133]:443... connected. HTTP request sent, awaiting response... 200 OK Length: 528228 (516K) [application/octet-stream] Saving to: 'nagios-nrpe.tar.gz' nagios-nrpe.tar.gz 100%[=====] 515.85K --.-KB/s in 0.01s 2024-08-26 06:52:02 (43.4 MB/s) - 'nagios-nrpe.tar.gz' saved [528228/528228] root@ip-10-61-1-75:/tmp# tar xzf nagios-nrpe.tar.gz root@ip-10-61-1-75:/tmp# cd nrpe-4.1.0/ root@ip-10-61-1-75:/tmp/nrpe-4.1.0#</pre>
7	Compile & install NRPE agent **Cantumkan lebih dari satu SS.	<pre>admin@ip-10-61-1-75: ~ checking for suffix of object files... o checking whether we are using the GNU C compiler... yes checking whether gcc accepts -g... yes checking for gcc option to accept ISO C89... none needed checking whether make sets \$(MAKE)... yes checking how to run the C preprocessor... gcc -E checking for grep that handles long lines and -e... /usr/bin/grep checking for egrep... /usr/bin/grep -E checking for ANSI C header files... yes checking whether time.h and sys/time.h may both be included... yes checking for sys/wait.h that is POSIX.1 compatible... yes checking for sys/types.h... yes checking for sys/stat.h... yes checking for stdlib.h... yes checking for string.h... yes checking for memory.h... yes checking for strings.h... yes checking for inttypes.h... yes checking for stdint.h... yes checking for unistd.h... yes checking ctype.h usability... yes checking ctype.h presence... yes checking for ctype.h... yes checking dirent.h usability... yes checking dirent.h presence... yes checking for dirent.h... yes checking errno.h usability... yes checking errno.h presence... yes checking for errno.h... yes checking fcntl.h usability... yes checking fcntl.h presence... yes checking for fcntl.h... yes checking getopt.h usability... yes checking getopt.h presence... yes checking for getopt.h... yes checking grp.h usability... yes </pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		<pre>root@ip-10-61-1-75:/tmp/nrpe-4.1.0# make all cd ./src/; make make[1]: Entering directory '/tmp/nrpe-4.1.0/src' gcc -g -O2 -I/usr/include/openssl -DHAVE_CONFIG_H -I ../include -I ../include -I linux-gnu -lssl -lcrypto -lnsl gcc -g -O2 -I/usr/include/openssl -DHAVE_CONFIG_H -I ../include -I ../include -I 64-linux-gnu -lssl -lcrypto -lnsl make[1]: Leaving directory '/tmp/nrpe-4.1.0/src' *** Compile finished *** You can now continue with the installation or upgrade process. Read the PDF documentation (docs/NRPE.pdf) for information on the next steps you should take to complete the installation or upgrade. root@ip-10-61-1-75:/tmp/nrpe-4.1.0# root@ip-10-61-1-75:/tmp/nrpe-4.1.0# make install-groups-users groupadd -r nagios useradd -r -g nagios nagios root@ip-10-61-1-75:/tmp/nrpe-4.1.0# useradd -r -g nagios nagios root@ip-10-61-1-75:/tmp/nrpe-4.1.0# make install cd ./src/; make install make[1]: Entering directory '/tmp/nrpe-4.1.0/src' make install-plugin make[2]: Entering directory '/tmp/nrpe-4.1.0/src' /usr/bin/install -c -m 755 -d /usr/local/nagios/bin /usr/bin/install -c -m 755 ../uninstall /usr/local/nagios/bin/nrpe-uninstall /usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec /usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec /usr/bin/install -c -m 775 -o nagios -g nagios check_nrpe /usr/local/nagios/libexec make[2]: Leaving directory '/tmp/nrpe-4.1.0/src' make install-daemon make[2]: Entering directory '/tmp/nrpe-4.1.0/src' /usr/bin/install -c -m 755 -d /usr/local/nagios/bin /usr/bin/install -c -m 755 ../uninstall /usr/local/nagios/bin/nrpe-uninstall /usr/bin/install -c -m 755 nrpe /usr/local/nagios/bin /usr/bin/install -c -m 755 -o nagios -g nagios -d /usr/local/nagios/var /usr/bin/install -c -m 755 -d /usr/lib/tmpfiles.d /usr/bin/install -c -m 644 ../startup/tmpfile.conf /usr/lib/tmpfiles.d/nrpe.conf make[2]: Leaving directory '/tmp/nrpe-4.1.0/src' make[1]: Leaving directory '/tmp/nrpe-4.1.0/src' root@ip-10-61-1-75:/tmp/nrpe-4.1.0# make[1]: Leaving directory '/tmp/nrpe-4.1.0/src' root@ip-10-61-1-75:/tmp/nrpe-4.1.0# make install-config /usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc /usr/bin/install -c -m 644 -o nagios -g nagios sample-config/nrpe.cfg /usr/local/nagios/etc root@ip-10-61-1-75:/tmp/nrpe-4.1.0# root@ip-10-61-1-75:/tmp/nrpe-4.1.0# make install-init /usr/bin/install -c -m 644 startup/default-service /lib/systemd/system/nrpe.service root@ip-10-61-1-75:/tmp/nrpe-4.1.0# </pre>
8	Ringkasan hasil instalasi NRPE agent.	<pre>*** Configuration summary for nrpe 4.1.0 2022-07-18 ***: General Options: ----- NRPE port: 5666 NRPE user: nagios NRPE group: nagios Nagios user: nagios Nagios group: nagios Review the options above for accuracy. If they look okay, type 'make all' to compile the NRPE daemon and client or type 'make' to get a list of make options. root@ip-10-61-1-75:/tmp/nrpe-4.1.0# </pre>



9 Konfigurasi file nrpe.cfg

- Baris ke 61
- Baris ke 106
- Baris ke 306

****Cantumkan lebih dari satu SS.**

```
admin@ip-10-61-1-75: ~
GNU nano 7.2                                nrpe.cfg *

# PORT NUMBER
# Port number we should wait for connections on.
# NOTE: This must be a non-privileged port (i.e. > 1024).
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd

server_port=5666

# SERVER ADDRESS
# Address that nrpe should bind to in case there are more than one interface
# and you do not want nrpe to bind on all interfaces.
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd

server_address=0.0.0.0

# LISTEN QUEUE SIZE
# Listen queue size (backlog) for serving incoming connections.
# You may want to increase this value under high load.

#listen_queue_size=5

admin@ip-10-61-1-75: ~
GNU nano 7.2                                nrpe.cfg *

# ALLOWED HOST ADDRESSES
# This is an optional comma-delimited list of IP address or hostnames
# that are allowed to talk to the NRPE daemon. Network addresses with a bit mask
# (i.e. 192.168.1.0/24) are also supported. Hostname wildcards are not currently
# supported.
#
# Note: The daemon only does rudimentary checking of the client's IP
# address. I would highly recommend adding entries in your /etc/hosts.allow
# file to allow only the specified host to connect to the port
# you are running this daemon on.
#
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd

allowed_hosts=127.0.0.1, 10.61.1.114|

admin@Web-Instance-Dzakeff: ~
GNU nano 7.2                                /usr/local/nagios/etc/nrpe.cfg

# on the machine that this daemon is running on! The examples below
# assume that you have plugins installed in a /usr/local/nagios/libexec
# directory. Also note that you will have to modify the definitions below
# to match the argument format the plugins expect. Remember, these are
# examples only!

# The following examples use hardcoded command arguments...
# This is by far the most secure method of using NRPE

command[check_users]=/usr/local/nagios/libexec/check_users -w 5 -c 10
command[check_load]=/usr/local/nagios/libexec/check_load -r -w .15,.10,.05 -c .30,.25,.20
command[check_hda1]=/usr/local/nagios/libexec/check_disk -w 20% -c 10% -p /dev/hda1
command[check_zombie_procs]=/usr/local/nagios/libexec/check_procs -w 5 -c 10 -s Z
command[check_total_procs]=/usr/local/nagios/libexec/check_procs -w 150 -c 200

# check_nrpe script for Web-Instance.

command[check_root]=/usr/local/nagios/libexec/check_disk -w 20% -c 10% -p /
command[check_ping]=/usr/local/nagios/libexec/check_ping -H 10.61.1.75 -w 100.0,20% -c 500.0,60% -p 5
command[check_ssh]=/usr/local/nagios/libexec/check_ssh -4 10.61.1.75
command[check_http]=/usr/local/nagios/libexec/check_http 10.61.1.75
command[check_apt]=/usr/local/nagios/libexec/check_apt
```



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

10	Start service NRPE agent.	<pre>root@ip-10-61-1-75:/usr/local/nagios/etc# nano nrpe.cfg root@ip-10-61-1-75:/usr/local/nagios/etc# systemctl start nrpe.service root@ip-10-61-1-75:/usr/local/nagios/etc# systemctl enable nrpe.service Created symlink /etc/systemd/system/multi-user.target.wants/nrpe.service → /lib/systemd/system/nrpe.service. root@ip-10-61-1-75:/usr/local/nagios/etc# systemctl status --no-pager nrpe.service ● nrpe.service - Nagios Remote Plugin Executor Loaded: loaded (/lib/systemd/system/nrpe.service; enabled; preset: enabled) Active: active (running) since Mon 2024-08-26 07:02:34 UTC; 24s ago Docs: http://www.nagios.org/documentation Main PID: 20368 (nrpe) Tasks: 1 (limit: 1137) Memory: 1.0M CPU: 8ms CGroup: /system.slice/nrpe.service └─20368 /usr/local/nagios/bin/nrpe -c /usr/local/nagios/etc/nrpe.cfg -f Aug 26 07:02:34 ip-10-61-1-75 systemd[1]: Started nrpe.service - Nagios Remote Plugin Executor. Aug 26 07:02:34 ip-10-61-1-75 nrpe[20368]: Starting up daemon Aug 26 07:02:34 ip-10-61-1-75 nrpe[20368]: Server listening on 0.0.0.0 port 5666. Aug 26 07:02:34 ip-10-61-1-75 nrpe[20368]: Listening for connections on port 5666 Aug 26 07:02:34 ip-10-61-1-75 nrpe[20368]: Allowing connections from: 127.0.0.1, 10.61.1.114 root@ip-10-61-1-75:/usr/local/nagios/etc#</pre>
Konfigurasi di NMS Nagios Instance		
11	Cek NRPE agent menggunakan plugins check_nrpe.	<pre>admin@ip-10-61-1-114:~\$ sudo su - root@ip-10-61-1-114:~# /usr/local/nagios/libexec/check_nrpe -H 10.61.1.75 NRPE v4.1.0 root@ip-10-61-1-114:~# </pre>
12	Buat file hosts.cfg dan services.cfg	<pre>root@ip-10-61-1-114:~# cd /usr/local/nagios/etc/ root@ip-10-61-1-114:/usr/local/nagios/etc# touch hosts.cfg root@ip-10-61-1-114:/usr/local/nagios/etc# touch services.cfg root@ip-10-61-1-114:/usr/local/nagios/etc#</pre>
13	Konfigurasi file nagios.cfg * Tambahkan path ke hosts.cfg dan services.cfg	<pre>admin@ip-10-61-1-114: ~ GNU nano 7.2 /usr/local/nagios/etc/nagios.cfg cfg_file=/usr/local/nagios/etc/objects/contacts.cfg cfg_file=/usr/local/nagios/etc/objects/timeperiods.cfg cfg_file=/usr/local/nagios/etc/objects/templates.cfg # Definitions for monitoring the local (Linux) host cfg_file=/usr/local/nagios/etc/objects/localhost.cfg # Definitions for monitoring a Windows machine #cfg_file=/usr/local/nagios/etc/objects/windows.cfg # Definitions for monitoring a router/switch #cfg_file=/usr/local/nagios/etc/objects/switch.cfg # Definitions for monitoring a network printer #cfg_file=/usr/local/nagios/etc/objects/printer.cfg # Define host & services monitoring cfg_file=/usr/local/nagios/etc/hosts.cfg cfg_file=/usr/local/nagios/etc/services.cfg</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

14	<p>Konfigurasi file host.cfg</p> <p>** Sesuaikan host_name dan ip.</p> <p>Link Script : hosts.cfg https://bit.ly/host-services-cfg salin yang A nomor 1</p>	<pre>admin@ip-10-61-1-114: ~ GNU nano 7.2 hosts.cfg * ## Default Linux Host Template ## define host{ name linux-box ; Name of this template use generic-host ; Inherit default values check_period 24x7 check_interval 5 retry_interval 1 max_check_attempts 10 check_command check-host-alive notification_period 24x7 notification_interval 30 notification_options d,r contact_groups admins register 0 } ## Define Host - Web Instance define host{ use linux-box ; Inherit default values from a template host_name Web-Instance-Dzakeff ; The name we're giving to this server alias debian ; A longer name for the server address 10.61.1.75 ; IP address of Remote Linux host }</pre>
15	<p>Konfigurasi file services.cfg</p> <p>** Sesuaikan host_name dan ip.</p> <p>Link Script : hosts.cfg https://bit.ly/host-services-cfg salin yang A nomor 2</p>	<pre>admin@ip-10-61-1-114: ~ GNU nano 7.2 services.cfg define service{ use generic-service host_name Web-Instance-Dzakeff service_description Root check_command check_nrpe!check_root } define service{ use generic-service host_name Web-Instance-Dzakeff service_description APT check_command check_nrpe!check_apt } define service{ use generic-service host_name Web-Instance-Dzakeff service_description CPU Load check_command check_nrpe!check_load } define service{ use generic-service host_name Web-Instance-Dzakeff service_description Total Processes check_command check_nrpe!check_total_procs } define service{</pre>



YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

16	Cek konfigurasi nagios.	<pre>admin@ip-10-61-1-114: ~ Copyright (c) 2009-present Nagios Core Development Team and Community Contributors Copyright (c) 1999-2009 Ethan Galstad Last Modified: 2023-08-01 License: GPL Website: https://www.nagios.org Reading configuration data... Read main config file okay... Read object config files okay... Running pre-flight check on configuration data... Checking objects... Checked 15 services. Checked 2 hosts. Checked 1 host groups. Checked 0 service groups. Checked 1 contacts. Checked 1 contact groups. Checked 25 commands. Checked 5 time periods. Checked 0 host escalations. Checked 0 service escalations. Checking for circular paths... Checked 2 hosts Checked 0 service dependencies Checked 0 host dependencies Checked 5 timeperiods Checking global event handlers... Checking obsessive compulsive processor commands... Checking misc settings... Total Warnings: 0 Total Errors: 0 Things look okay - No serious problems were detected during the pre-flight check</pre>
17	Restart Service nagios	<pre>root@ip-10-61-1-114:/usr/local/nagios/etc# nano services.cfg root@ip-10-61-1-114:/usr/local/nagios/etc# systemctl restart nagios.service root@ip-10-61-1-114:/usr/local/nagios/etc# </pre>

Uji coba 2 – Pastikan Monitoring Web Instance Berhasil

18	Tampilan menu hosts	
----	---------------------	--



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

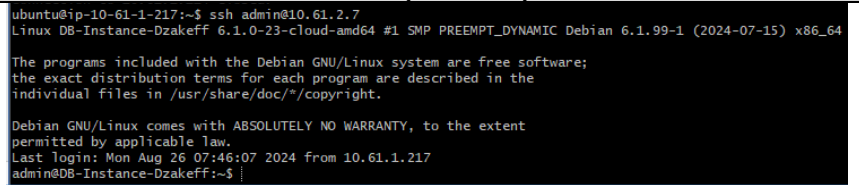
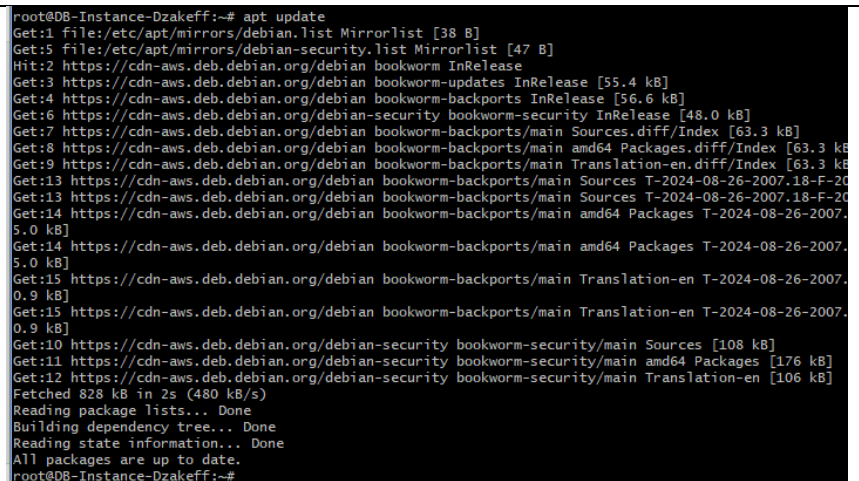
Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

19	<p>Tampilan menu services</p> <p>**Pastikan services OK.</p>	
----	---	--

3. Tambahkan instance **Database** untuk di Monitoring dengan NMS Nagios

No	Keterangan Konfigurasi	Hasil (Gambar)
1	Remote SSH ke DBInstance.	
2	Update & install pre-requisites package.	



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		<pre>Processing triggers for libc-bin (2.30-8ubuntu7) ... root@DB-Instance-Dzakeff:~# apt list autoconf gcc libmbedtls-dev make Listing... Done autoconf/stable,now 2.71-3 all [installed] build-essential/stable,now 12.9 amd64 [installed] dc/stable,now 1.07.1-3+b1 amd64 [installed] gcc/stable,now 4:12.2.0-3 amd64 [installed] gettext/stable,now 0.21-12 amd64 [installed] libdbd-mysql-perl/stable,now 4.050-5+b1 amd64 [installed] libmbedtls-dev/stable,now 2.5.8-7 amd64 [installed] libssl-dev/stable,now 3.0.13-1~deb12u1 amd64 [installed] make/stable,now 4.3-4.1 amd64 [installed] root@DB-Instance-Dzakeff:~# </pre>
Install Nagios-Plugins		
3	Download & install Nagios-plugins	<pre>root@DB-Instance-Dzakeff:/tmp# wget --no-check-certificate -O nagios-plugins.tar.gz https://github.com/nagios-plugins/nagios-plugins/archive/release-2.4.6.tar.gz --2024-08-27 01:27:35-- https://github.com/nagios-plugins/nagios-plugins/archive/release-2.4.6.tar.gz Resolving github.com (github.com)... 140.82.113.3 Connecting to github.com (github.com)[140.82.113.3]:443... connected. HTTP request sent, awaiting response... 302 Found Location: https://codeload.github.com/nagios-plugins/nagios-plugins/tar.gz/refs/tags/release-2.4.6 [following] --2024-08-27 01:27:35-- https://codeload.github.com/nagios-plugins/nagios-plugins/tar.gz/refs/tags/release-2.4.6 Resolving codeload.github.com (codeload.github.com)... 140.82.114.10 Connecting to codeload.github.com (codeload.github.com)[140.82.114.10]:443... connected. HTTP request sent, awaiting response... 200 OK Length: unspecified [application/x-gzip] Saving to: 'nagios-plugins.tar.gz' nagios-plugins.tar.gz [<=>] 2.00M 11.7MB/s in 0.2s 2024-08-27 01:27:36 (11.7 MB/s) - 'nagios-plugins.tar.gz' saved [2095974] root@DB-Instance-Dzakeff:/tmp# tar xzf nagios-plugins.tar.gz root@DB-Instance-Dzakeff:/tmp# </pre>
4	Compile & Install Nagios-plugins **Cantumkan lebih dari satu SS.	<pre>root@DB-Instance-Dzakeff:/tmp/nagios-plugins-release-2.4.6# ./tools/setup Found GNU Make at /usr/bin/gmake ... good. configure.ac:1940: You should run autoupdate. root@DB-Instance-Dzakeff:/tmp/nagios-plugins-release-2.4.6# ./configure checking for a BSD-compatible install... /usr/bin/install -c checking whether build environment is sane... yes checking for a race-free mkdir -p... /usr/bin/mkdir -p checking for gawk... gawk checking whether make sets \$(MAKE)... yes checking whether make supports nested variables... yes checking whether to enable maintainer-specific portions of Makefiles... yes checking build system type... x86_64-pc-linux-gnu checking host system type... x86_64-pc-linux-gnu checking for gcc... gcc checking whether the C compiler works... yes checking for C compiler default output file name... a.out checking for suffix of executables... checking whether we are cross compiling... no checking for suffix of object files... o checking whether the compiler supports GNU C... yes checking whether gcc accepts -g... yes checking for gcc option to enable C11 features... none needed checking whether gcc understands -c and -o together... yes checking whether make supports the include directive... yes (GNU style) checking dependency style of gcc... gcc3 checking how to run the C preprocessor... gcc -E checking for grep that handles long lines and -e... /usr/bin/grep checking for egrep... /usr/bin/grep -E checking for Minix Amsterdams compiler... no checking for ar... ar checking for ranlib... ranlib checking for stdio.h... yes</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

admin@DB-Instance-Dzakeff: ~

```
gl_openssl.h: In function 'sha1_init_ctx':
gl_openssl.h:79:1: warning: 'SHA1_Init' is deprecated: Since Op
 79 | { (void) OPENSSL_FN (_Init) ((_gl_CTX *) ctx); }
    | ^
In file included from sha1.h:26:
/usr/include/openssl/sha.h:49:27: note: declared here
 49 | OSSL_DEPRECATEDIN_3_0 int SHA1_Init(SHA_CTX *c);
    | ^~~~~~
gl_openssl.h: In function 'sha1_process_bytes':
gl_openssl.h:85:1: warning: 'SHA1_Update' is deprecated: Since
 85 | { OPENSSL_FN (_Update) ((_gl_CTX *) ctx, buf, len); }
    | ^
/usr/include/openssl/sha.h:50:27: note: declared here
 50 | OSSL_DEPRECATEDIN_3_0 int SHA1_Update(SHA_CTX *c, const
    | ^~~~~~
gl_openssl.h: In function 'sha1_finish_ctx':
gl_openssl.h:94:1: warning: 'SHA1_Final' is deprecated: Since O
 94 | { OPENSSL_FN (_Final) ((unsigned char *) res, (_gl_CTX
    | ^
/usr/include/openssl/sha.h:51:27: note: declared here
 51 | OSSL_DEPRECATEDIN_3_0 int SHA1_Final(unsigned char *md,
    | ^~~~~~
gl_openssl.h: In function 'sha1_read_ctx':
gl_openssl.h:105:3: warning: 'SHA1_Final' is deprecated: Since
 105 | OPENSSL_FN (_Final) ((unsigned char *) res, &tmp_ctx)
    | ^~~~~~
/usr/include/openssl/sha.h:51:27: note: declared here
 51 | OSSL_DEPRECATEDIN_3_0 int SHA1_Final(unsigned char *md,
    | ^~~~~~
depbased=`echo dirname.o | sed 's|[/]*$|.deps/&;s|\.o$||'`; \
gcc -DHAVE_CONFIG_H -I. -I.. -g -O2 -MT dirname.o -MD -MP -
mv -f $depbased.Tpo $depbased.Po
depbased=`echo basename.o | sed 's|[/]*$|.deps/&;s|\.o$||'`; \
gcc -DHAVE_CONFIG_H -I. -I.. -g -O2 -MT basename.o -MD -MP -
mv -f $depbased.Tpo $depbased.Po
```



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		<pre>admin@DB-Instance-Dzakeff: ~ libtool: install: /usr/bin/install -c negate /usr/local/nagios/libexec/negate libtool: install: /usr/bin/install -c remove_perfdata /usr/local/nagios/libexec/remove_perfdata libtool: install: /usr/bin/install -c urlize /usr/local/nagios/libexec/urlize libtool: install: /usr/bin/install -c check_ide_smart /usr/local/nagios/libexec/check_ide_smart libtool: install: /usr/bin/install -c check_uptime /usr/local/nagios/libexec/check_uptime libtool: install: /usr/bin/install -c check_procs /usr/local/nagios/libexec/check_procs libtool: install: /usr/bin/install -c check_nagios /usr/local/nagios/libexec/check_nagios libtool: install: /usr/bin/install -c check_by_ssh /usr/local/nagios/libexec/check_by_ssh libtool: install: /usr/bin/install -c check_swap /usr/local/nagios/libexec/check_swap libtool: install: /usr/bin/install -c check_apt /usr/local/nagios/libexec/check_apt libtool: install: /usr/bin/install -c check_nt /usr/local/nagios/libexec/check_nt make install-exec-hook make[3]: Entering directory '/tmp/nagios-plugins-release-2.4.6/plugins' 2.4.6.git cd /usr/local/nagios/libexec && \ for i in check_ftp check_imap check_nntp check_pop check_udp check_clamd check_simap check_ldap \ do rm -f \$i; ln -s check_tcp \$i; done; \ if [-x check_ldap]; then rm -f check_ldaps; ln -s check_ldap check_ldaps; fi make[3]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins' make[2]: Nothing to be done for 'install-data-am'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins' make[1]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins' Making install in plugins-scripts make[1]: Entering directory '/tmp/nagios-plugins-release-2.4.6/plugins-scripts' 2.4.6.git make[2]: Entering directory '/tmp/nagios-plugins-release-2.4.6/plugins-scripts' 2.4.6.git /usr/bin/mkdir -p '/usr/local/nagios/libexec' /usr/bin/install -c check_breeze check_disk_smb check_flexlm check_ircd check_log check_ifstatus check_ifoperstatus check_mailq check_file_age check_ssl_validity utils.sh util \ make[2]: Nothing to be done for 'install-data-am'. make[2]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins-scripts' make[1]: Leaving directory '/tmp/nagios-plugins-release-2.4.6/plugins-scripts' Making install in plugins-root make[1]: Entering directory '/tmp/nagios-plugins-release-2.4.6/plugins-root' 2.4.6.git</pre>
Install NRPE Agent		
5	Install pre-requisites package.	<pre>root@DB-Instance-Dzakeff:/tmp/nagios-plugins-release-2.4.6# apt list Listing... Done autoconf/stable,now 2.71-3 all [installed] automake/stable,now 1:1.16.5-1.3 all [installed] gcc/stable,now 4:12.2.0-3 amd64 [installed] libc6/stable,stable-security,now 2.36-9+deb12u7 amd64 [installed] libmcrypt-dev/stable,now 2.5.8-7 amd64 [installed] libssl-dev/stable,now 3.0.13-1~deb12u1 amd64 [installed] make/stable,now 4.3-4.1 amd64 [installed] root@DB-Instance-Dzakeff:/tmp/nagios-plugins-release-2.4.6#</pre>
6	Download & extract NRPE agent	<pre>root@DB-Instance-Dzakeff:/tmp# wget --no-check-certificate -O nagios-nrpe.tar.gz https://github.com/NagiosEnterprises/nrpe/releases/download/nrpe-4.1.0/nrpe-4.1.0.tar.gz 2024-08-27 01:38:42-- https://github.com/NagiosEnterprises/nrpe/releases/download/nrpe-4.1.0/nrpe-4.1.0.tar.gz Resolving github.com (github.com)... 140.82.114.3 Connecting to github.com (github.com)[140.82.114.3]:443... connected. HTTP request sent, awaiting response... 202 Found Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/16119653/15952b1c-13e6-4e48-939d-292348427f8c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20240827%2Fus-east-1%2F%2Faws4_request&X-Amz-Date=20240827T013806Z&X-Amz-Expires=300&X-Amz-Signature=6237e2882967b623d0a87626039b87d80c4729ac7025ce2f5f7a8ec295647b6f&X-Amz-SignedHeaders=host&actor-id=0&key-id=0&repo-id=16119653&response-content-disposition=attachment%3B%20filename%3Dnrpe-4.1.0.tar.gz&response-content-type=application%2Foctet-stream [following] --2024-08-27 01:38:42-- https://objects.githubusercontent.com/github-production-release-asset-2e65be/16119653/15952b1c-13e6-4e48-939d-292348427f8c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20240827%2Fus-east-1%2F%2Faws4_request&X-Amz-Date=20240827T013806Z&X-Amz-Expires=300&X-Amz-Signature=6237e2882967b623d0a87626039b87d80c4729ac7025ce2f5f7a8ec295647b6f&X-Amz-SignedHeaders=host&actor-id=0&key-id=0&repo-id=16119653&response-content-disposition=attachment%3B%20filename%3Dnrpe-4.1.0.tar.gz&response-content-type=application%2Foctet-stream Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.110.133, 185.199.111.133, 185.199.108.133, ... Connecting to objects.githubusercontent.com (objects.githubusercontent.com)[185.199.110.133]:443... connected. HTTP request sent, awaiting response... 200 OK Length: 528228 (516K) [application/octet-stream] Saving to: 'nagios-nrpe.tar.gz' nagios-nrpe.tar.gz 100%[=====] 515.85K --.-KB/s in 0.008s 2024-08-27 01:38:42 (64.2 MB/s) - 'nagios-nrpe.tar.gz' saved [528228/528228] root@DB-Instance-Dzakeff:/tmp# tar xzf nagios-nrpe.tar.gz root@DB-Instance-Dzakeff:/tmp#</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

7	<p>Compile & install NRPE agent</p> <p>**Cantumkan lebih dari satu SS.</p>	<pre>root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0# ./configure --enable-command-args root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0# make all cd ./src; make make[1]: Entering directory '/tmp/nrpe-4.1.0/src' gcc -g -O2 -I/usr/include/openssl -DHAVE_CONFIG_H -I ../include -I ../include linux-gnu -lssl -lcrypto -lnsl root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0# make install-groups-users groupadd -r nagios useradd -r -g nagios nagios root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0# useradd -r -g nagios nagios root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0# make install cd ./src; make install make[1]: Entering directory '/tmp/nrpe-4.1.0/src' make install-plugin make[2]: Entering directory '/tmp/nrpe-4.1.0/src' /usr/bin/install -c -m 755 -d /usr/local/nagios/bin /usr/bin/install -c -m 755 ../uninstall /usr/local/nagios /usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios /usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios /usr/bin/install -c -m 775 -o nagios -g nagios check_nrpe make[2]: Leaving directory '/tmp/nrpe-4.1.0/src' make install-daemon make[2]: Entering directory '/tmp/nrpe-4.1.0/src' root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0# make install-config /usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios /usr/bin/install -c -m 644 -o nagios -g nagios sample-config/nrpe.cfg root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0# root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0# make install-init /usr/bin/install -c -m 644 startup/default-service /lib/systemd/system/nrpe.service root@DB-Instance-Dzakeff:/tmp/nrpe-4.1.0#</pre>
8	<p>Ringkasan hasil instalasi NRPE agent.</p>	<pre>*** Configuration summary for nrpe 4.1.0 2022-07-18 ***: General Options: ----- NRPE port: 5666 NRPE user: nagios NRPE group: nagios Nagios user: nagios Nagios group: nagios Review the options above for accuracy. If they look okay, type 'make all' to compile the NRPE daemon and client or type 'make' to get a list of make options.</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

9	<p>Konfigurasi file nrpe.cfg</p> <ul style="list-style-type: none">- Baris ke 61- Baris ke 106- Baris ke 306 <p>**Beri pagar di command HTTP **Cantumkan lebih dari satu SS.</p>	<pre># SERVER ADDRESS # Address that nrpe should bind to # and you do not want nrpe to bind to # NOTE: This option is ignored if NRPE is run as a daemon server_address=0.0.0.0 # # NOTE: This option is ignored if NRPE is run as a daemon allowed_hosts=127.0.0.1,10.61.1.114 # The following examples use hardcoded command arguments... # This is by far the most secure method of using NRPE command[check_users]=usr/local/nagios/libexec/check_users -w 5 -c 10 command[check_load]=usr/local/nagios/libexec/check_load -r .15,.10,.05 -c .30,.25,.20 command[check_hddal]=usr/local/nagios/libexec/check_disk -w 20% -c 10% -p /dev/hdal command[check_zombie_procs]=usr/local/nagios/libexec/check_procs -w 5 -c 10 -s Z command[check_total_procs]=usr/local/nagios/libexec/check_procs -w 150 -c 200 command[check_root]=usr/local/nagios/libexec/check_disk -w 20% -c 10% -p / command[check_ping]=usr/local/nagios/libexec/check_ping -H 10.61.2.7 -w 100.0,20% -c 500.0,60% -p 5 command[check_ssh]=usr/local/nagios/libexec/check_ssh -4 10.61.2.7 #command[check_http]=usr/local/nagios/libexec/check_http 10.61.2.7 command[check_apt]=usr/local/nagios/libexec/check_apt</pre>
10	<p>Start service NRPE agent.</p>	<pre>root@DB-Instance-Dzakeff:/usr/local/nagios/etc# systemctl restart nrpe.service root@DB-Instance-Dzakeff:/usr/local/nagios/etc# systemctl start nrpe root@DB-Instance-Dzakeff:/usr/local/nagios/etc#</pre>
Install check_mysql_health plugin		
11	<p>Download & extract check_mysql_health plugin</p>	<pre>root@DB-Instance-Dzakeff:/tmp# wget https://labs.consol.de/assets/downloads/nagios/check_mysql_health-2.2.2.tar.gz --2024-08-27 02:09:41-- https://labs.consol.de/assets/downloads/nagios/check_mysql_health-2.2.2.tar.gz Resolving labs.consol.de (labs.consol.de)... 94.185.89.33, 2a03:3680:0:2::21 Connecting to labs.consol.de (labs.consol.de) 94.185.89.33 :443... connected. HTTP request sent, awaiting response... 200 OK Length: 140250 (137K) [application/octet-stream] Saving to: 'check_mysql_health-2.2.2.tar.gz' check_mysql_health-2.2.2.tar.gz 100%[=====] 136.96K 445KB/s in 0.3s 2024-08-27 02:09:42 (445 KB/s) - 'check_mysql_health-2.2.2.tar.gz' saved [140250/140250] root@DB-Instance-Dzakeff:/tmp# tar xzf check_mysql_health-2.2.2.tar.gz root@DB-Instance-Dzakeff:/tmp#</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

12	Compile & install check_mysql_health plugin **Cantumkan lebih dari satu SS.	<pre>root@DB-Instance-Dzakeff:/tmp/check_mysql_health-2.2.2# ./configure checking for a BSD-compatible install... /usr/bin/install -c checking whether build environment is sane... yes checking for a thread-safe mkdir -p... /usr/bin/mkdir -p checking for gawk... gawk checking whether make sets \$(MAKE)... yes checking whether make supports nested variables... yes checking how to create a pax tar archive... gnutar checking whether to enable maintainer-specific portions of Makefiles... no checking build system type... x86_64-unknown-linux-gnu checking host system type... x86_64-unknown-linux-gnu variable with_statefiles_dir is /var/tmp/check_mysql_health variable with_mymodules_dir is /usr/local/nagios/libexec variable with_mymodules_dyn_dir is /usr/local/nagios/libexec checking whether make sets \$(MAKE)... (cached) yes checking for echo... /usr/bin/echo checking for sed... /usr/bin/sed checking for grep... /usr/bin/grep checking for cat... /usr/bin/cat checking for sh... /usr/bin/sh checking for perl... /usr/bin/perl checking for gzip... /usr/bin/gzip checking for gawk... /usr/bin/gawk checking that generated files are newer than configure... root@DB-Instance-Dzakeff:/tmp/check_mysql_health-2.2.2# make Making all in plugins-scripts make[1]: Entering directory '/tmp/check_mysql_health-2.2.2/plugins-scripts' /usr/bin/echo "#! #PERL# -w" /usr/bin/gawk -f ./subst > check_mysql_health /usr/bin/echo "# nagios: -epn" >> check_mysql_health root@DB-Instance-Dzakeff:/tmp/check_mysql_health-2.2.2# cp plugins-scripts/check_mysql_health /usr/local/nagios/libexec/</pre>
13	Buat userdatabase Baru	<pre>MariaDB [(none)]> create user 'nagiosdzakeff'@'%' identified by 'pass123'; Query OK, 0 rows affected (0.008 sec) MariaDB [(none)]> grant select, process, super on *.* to 'nagiosdzakeff'@'%'; Query OK, 0 rows affected (0.001 sec) MariaDB [(none)]> flush privileges; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corre ht syntax to use near 'priviledges' at line 1 MariaDB [(none)]> flush privileges; Query OK, 0 rows affected (0.000 sec) MariaDB [(none)]></pre>
14	Restart NRPE Agent.	<pre>root@DB-Instance-Dzakeff:/tmp/check_mysql_health-2.2.2# systemctl restart nrpe.service root@DB-Instance-Dzakeff:/tmp/check_mysql_health-2.2.2# systemctl status --no-pager nrpe.service ● nrpe.service - Nagios Remote Plugin Executor Loaded: loaded (/lib/systemd/system/nrpe.service; disabled; preset: enabled) Active: active (running) since Tue 2024-08-27 02:21:51 UTC; 14s ago Docs: http://www.nagios.org/documentation Main PID: 18962 (nrpe) Tasks: 1 (limit: 1137) Memory: 1.0M CPU: 8ms CGroup: /system.slice/nrpe.service └─18962 /usr/local/nagios/bin/nrpe -c /usr/local/nagios/etc/nrpe.cfg -f Aug 27 02:21:51 DB-Instance-Dzakeff systemd[1]: nrpe.service: Deactivated successfully. Aug 27 02:21:51 DB-Instance-Dzakeff systemd[1]: Stopped nrpe.service - Nagios Remote Plugin Executor. Aug 27 02:21:51 DB-Instance-Dzakeff systemd[1]: Started nrpe.service - Nagios Remote Plugin Executor. Aug 27 02:21:51 DB-Instance-Dzakeff nrpe[18962]: Starting up daemon Aug 27 02:21:51 DB-Instance-Dzakeff nrpe[18962]: Server listening on 0.0.0.0 port 5666. Aug 27 02:21:51 DB-Instance-Dzakeff nrpe[18962]: Listening for connections on port 5666 Aug 27 02:21:51 DB-Instance-Dzakeff nrpe[18962]: Allowing connections from: 127.0.0.1,10.61.1.114 root@DB-Instance-Dzakeff:/tmp/check_mysql_health-2.2.2#</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

Konfigurasi di NMS Nagios Instance

15	Install pre-requisites package	<pre>Processing triggers for man-db (2.11.2-2) ... root@ip-10-61-1-114:~# apt list libdbd-mysql-perl Listing... Done libdbd-mysql-perl/stable,now 4.050-5+b1 amd64 [installed] root@ip-10-61-1-114:~# </pre>
16	Download & extract check_mysql_health plugin.	<pre>root@ip-10-61-1-114:/tmp# wget https://labs.consol.de/assets/downloads/nagios/check_mysql_health-2.2.2.tar.gz --2024-08-27 02:34:58-- https://labs.consol.de/assets/downloads/nagios/check_mysql_health-2.2.2.tar.gz Resolving labs.consol.de (labs.consol.de)... 94.185.89.33, 2a03:3680:02::21 Connecting to labs.consol.de (labs.consol.de)[94.185.89.33]:443... connected. HTTP request sent, awaiting response... 200 OK Length: 140250 (137K) [application/octet-stream] Saving to: 'check_mysql_health-2.2.2.tar.gz' check_mysql_health-2.2.2.tar.gz 100%[=====] 136.96K 446KB/s in 0.3s 2024-08-27 02:34:59 (446 KB/s) - 'check_mysql_health-2.2.2.tar.gz' saved [140250/140250] root@ip-10-61-1-114:/tmp# </pre>
17	Compile & install check_mysql_health plugin. **Cantumkan lebih dari satu SS.	<pre>root@ip-10-61-1-114:/tmp/check_mysql_health-2.2.2# ./configure checking for a BSD-compatible install... /usr/bin/install -c checking whether build environment is sane... yes checking for a thread-safe mkdir -p... /usr/bin/mkdir -p checking for gawk... gawk checking whether make sets \$(MAKE)... yes checking whether make supports nested variables... yes checking how to create a pax tar archive... gnutar checking whether to enable maintainer-specific portions of Makefiles... no checking build system type... </pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

		<pre>--with-nagios-group: nagios --with-mymodules-dir: /usr/local/nagios/libexec --with-mymodules-dyn-dir: /usr/local/nagios/libexec root@ip-10-61-1-114:/tmp/check_mysql_health-2.2.2# make Making all in plugins-scripts make[1]: Entering directory '/tmp/check_mysql_health-2.2.2/plugins-sc /usr/bin/echo "#! #PERL# -w" /usr/bin/gawk -f ./subst > check_mysql /usr/bin/echo "# nagios: -epn" >> check_mysql_health /usr/bin/echo >> check_mysql_health /usr/bin/echo "my %ERRORS=(OK => 0, WARNING => 1, CRITICAL => 2, UNK /usr/bin/echo "my %ERRORCODES=(0 => 'OK', 1 => 'WARNING', 2 => 'CRIT for m in Nagios/DBD/MySQL/Server/Instance/Innodb.pm Nagios/DBD/MySQL/ ation.pm Nagios/DBD/MySQL/Server/Instance.pm Nagios/DBD/MySQL/Server. /usr/bin/sed -e 's/^1;/g' < \$m /usr/bin/gawk -f ./subst done if [-d "/usr/local/nagios/libexec"]; then \ for m in /usr/local/nagios/libexec/CheckMySQLHealthExt*.pm; d if [-f \$m]; then \ /usr/bin/echo found \$m; \ /usr/bin/sed -e 's/^1;/g' < \$m /usr/bin/ga h; \ fi \ done \ fi /usr/bin/cat check_mysql_health.pl /usr/bin/grep -v "Ause Nagios" k_mysql_health chmod +x check_mysql_health make[1]: Leaving directory '/tmp/check_mysql_health-2.2.2/plugins-scr Making all in t make[1]: Entering directory '/tmp/check_mysql_health-2.2.2/t' make[1]: Nothing to be done for 'all'. make[1]: Leaving directory '/tmp/check_mysql_health-2.2.2/t' make[1]: Entering directory '/tmp/check_mysql_health-2.2.2' make[1]: Nothing to be done for 'all-am'. make[1]: Leaving directory '/tmp/check_mysql_health-2.2.2' root@ip-10-61-1-114:/tmp/check_mysql_health-2.2.2# </pre>
18	Ujicoba plugin check mysql health dengan cek uptime database mysql.	<pre>root@ip-10-61-1-114:~/check_mysql_health-2.2.2# cd plugins-scripts/ root@ip-10-61-1-114:~/check_mysql_health-2.2.2/plugins-scripts# ./check_mysql_health -H 10.61.2.7 --user nagiosdzakeff --password pass 123 --mode uptime OK - database is up since 111 minutes uptime=6683s root@ip-10-61-1-114:~/check_mysql_health-2.2.2/plugins-scripts#</pre>
19	Edit file commands.cfg	<pre>admin@ip-10-61-1-114: ~ GNU nano 7.2 objects/commands.cfg define command { command_name process-host-perfdata command_line /usr/bin/printf "%b" "\$LASTHOSTCHECKS%\t\$HOSTNAME%\t\$HOSTSTATE%\t\$HOSTATTEMPTS%\t\$HOSTSTATETYPES%\t\$HOST } define command { command_name process-service-perfdata command_line /usr/bin/printf "%b" "\$LASTSERVICECHECKS%\t\$HOSTNAME%\t\$SERVICEDESC%\t\$SERVICESTATE%\t\$SERVICEATTEMPTS% } define command{ command_name check_nrpe command_line \$USER1\$/check_nrpe -H \$HOSTADDRESS\$ -c \$ARG1\$ } define command{ command_name check_mysql_health command_line \$USER1\$/check_mysql_health -H \$ARG1\$ --port \$ARG2\$ --user \$ARG3\$ --password \$ARG4\$ --mode \$ARG5\$ } </pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

20	<p>Konfigurasi file host.cfg</p> <p>** Sesuaikan host_name dan ip.</p> <p>Link Script : hosts.cfg https://bit.ly/host-services-cfg salin yang B nomor 1</p>	<pre>GNU nano 7.2 hosts.cfg * } ## Define Host - Web Instance Dzakeff define host{ use linux-box ; Inherit default values from a template host_name Web-Instance-Dzakeff ; The name we're giving to this server alias debian ; A longer name for the server address 10.61.1.75 ; IP address of Remote Linux host } ##Define Host - DB Instance Dzakeff define host { use linux-server ; Name of host template to use ; This host definition will inherit all variables that are defined ; in (or inherited by) the linux-server host template definition. host_name DB-Instance-Dzakeff alias mysql_server address 10.61.2.7 notification_interval 1 notification_options d,u,r,f,s check_interval 1 retry_interval 1 contact_groups admins notifications_enabled 1 notification_period 24x7 }</pre>
21	<p>Konfigurasi file services.cfg</p> <p>** Sesuaikan host_name dan ip. **Tambahkan username db-instance di sebelah hostname web.</p> <p>Link Script : hosts.cfg https://bit.ly/host-services-cfg salin yang B nomor 2</p>	<pre>admin@ip-10-61-1-114: ~ GNU nano 7.2 services.cfg * define service{ use generic-service host_name Web-Instance-Dzakeff, DB-Instance-Dzakeff service_description Root check_command check_nrpe!check_root } define service{ use generic-service host_name Web-Instance-Dzakeff, DB-Instance-Dzakeff service_description APT check_command check_nrpe!check_apt } define service{ use generic-service host_name Web-Instance-Dzakeff, DB-Instance-Dzakeff service_description CPU Load check_command check_nrpe!check_load } define service{ use generic-service host_name Web-Instance-Dzakeff, DB-Instance-Dzakeff service_description Total Processes check_command check_nrpe!check_total_procs } define service{ use generic-service</pre>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

```
admin@ip-10-61-1-114: ~
GNU nano 7.2 /usr/local/nagios/etc/serv
    host_name      Web-Instance-Dzakeff, DB-Instance-Dzakeff
    service_description Total Processes
    check_command  check_nrpe!check_total_procs
}

define service{
    use                generic-service
    host_name          Web-Instance-Dzakeff, DB-Instance-Dzakeff
    service_description Current Users
    check_command      check_nrpe!check_users
}

define service{
    use                generic-service
    host_name          Web-Instance-Dzakeff, DB-Instance-Dzakeff
    service_description SSH Monitoring
    check_command      check_nrpe!check_ssh
}

## Script untuk mengecek status Web Server (HTTP Service)

define service{
    use                generic-service
    host_name          Web-Instance-Dzakeff
    service_description HTTP
    check_command      check_nrpe!check_http
}

admin@ip-10-61-1-114: ~
GNU nano 7.2 services.cfg *
## Script untuk mengecek status MySQL
define service {
    host_name DB-Instance-Dzakeff
    service_description MySQL Connections
    check_command check_mysql_health!10.61.2.7!3306!nagiosdzakeff!pass123!threads-connected
    notification_interval 1
    notification_options w,u,c,r,f,s
    check_interval 1
    retry_interval 1
    contact_groups admins
    notifications_enabled 1
    notification_period 24x7
    max_check_attempts 3
    check_period 24x7
}

define service {
    host_name DB-Instance-Dzakeff
    service_description MySQL Uptime
    check_command check_mysql_health!10.61.2.7!3306!nagiosdzakeff!pass123!uptime
    check_interval 1
    retry_interval 1
    contact_groups admins
    notifications_enabled 1
    notification_period 24x7
    notification_options w,u,c,r,f,s
    notification_interval 1
    max_check_attempts 3
    check_period 24x7
}
```




**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

16	Cek konfigurasi nagios.	<pre>admin@ip-10-61-1-114: ~ Copyright (c) 1999-2009 Ethan Galstad Last Modified: 2023-08-01 License: GPL Website: https://www.nagios.org Reading configuration data... Read main config file okay... Read object config files okay... Running pre-flight check on configuration data... Checking objects... Checked 24 services. Checked 3 hosts. Checked 1 host groups. Checked 0 service groups. Checked 1 contacts. Checked 1 contact groups. Checked 26 commands. Checked 5 time periods. Checked 0 host escalations. Checked 0 service escalations. Checking for circular paths... Checked 3 hosts Checked 0 service dependencies Checked 0 host dependencies Checked 5 timeperiods Checking global event handlers... Checking obsessive compulsive processor commands... Checking misc settings... Total Warnings: 0 Total Errors: 0 Things look okay - No serious problems were detected during the pre-flight check root@ip-10-61-1-114:/usr/local/nagios/etc# </pre>
17	Restart Service nagios	<pre>Things look okay - No serious problems were detected during the pre-flight check root@ip-10-61-1-114:/usr/local/nagios/etc# systemctl restart nagios.service root@ip-10-61-1-114:/usr/local/nagios/etc# </pre>
Uji coba 3 – Pastikan Monitoring Web Instance Berhasil		



YAYASAN PRAWITAMA SMK WIKRAMA BOGOR

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

18	Tampilan menu hosts	
19	Tampilan menu services **Pastikan services OK.	

4. Clean-Up Labs

No	Keterangan Konfigurasi	Hasil (Gambar)
1	Terminate instance	
2	Delete NAT Gateway	



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website :

www.smkwikrama.net

3	Delete VPC	
4	End Lab	

😊 Selamat Mengerjakan😊