	Cri —
	Name -> Aleek Sinha Polino .709 Reg. No -> 11904710
	Reg. No -> 11904710
(1)	in need of contiguration Management? Why there
	is need of contiguration Management.
MB-7-1	Configuration Management 19 9 Systems engineering
	montes of the solution of the steer of the solution of the sol
	a tribite throughout ite lite (IV) the temporary
	Dorld, Configuration management is an II management
MA F	Dorld, Configuration management 19 an II management process that tracks individual configuration items
97.0	of an IT syskm.
*	It sometime, referred as on II automation. Most
	Configuration management involves a high degree of
	automation to achieve the goal in its
	trains use different tools like Puppet, Ansible,
	Terratory and other Configuration management tool8.
4	By Using automation, it's easier to build in checker and the bundancies, improving the potential for our error and the anuracy
	and rebundancies improving the potential too
	omiggions due to homan error and the actually
-	Joy Keeping a 880175 in the desited state.
	U
	1/2/2 2 2000 Day 20 2001 ) H Class Card on more larker!
	"You can pay me now ,ou you can pay me lake".
	Ouis and sepalies well to some flower flow Management
	This quote applies weed to configure tion management and it describe the need of it.
	UND I'M GEOLOGICE THE THEORY OF IT

1	DATE :// PAGE :
1->	Reduced risks of outages and Devrity breaches through visibility and tracking of the changes to your System.
27	Cost Reduction by having deteriled knowledge of all the elements of your configuration, avoiding wasteful elements.
	Improving experience for our customers and internal atent by rapidly detecting and correcting improper configurations.
u-7	enforcing formal policies and procedures that govern again identification, steedus, monitoring and auditing.
5.7	efficient change movement by lenowing our baseline configuration, and having othe visibility to duign changes.
6.7	Betto Release management and clear startus acrounting.

```
done!
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/m
cab/dic/debian (mecab-dictionary) in auto mode
Setting up libhtml-parser-perl (3.72-5) ...
Setting up libhttp-message-perl (6.22-1) ...
Setting up mysql-server-8.0 (8.0.30-0ubuntu0.20.04.2) ...
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (m
.cnf) in auto mode
Renaming removed key buffer and myisam-recover options (if present)
mysqld will log errors to /var/log/mysql/error.log
mysgld is running as pid 3246
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /li
/systemd/system/mysql.service.
Setting up libcgi-pm-perl (4.46-1) ...
Setting up libhtml-template-perl (2.97-1) ...
Setting up mysgl-server (8.0.30-0ubuntu0.20.04.2) ...
Setting up libcgi-fast-perl (1:2.15-1) ...
Processing triggers for systemd (245.4-4ubuntu3.17) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
ubuntu@ip-172-31-29-203:~$ sudo nano site.pp
ubuntu@ip-172-31-29-203:~$
```

```
GNU nano 4.8
                                      site.pp
$a=['httpd','mysql-service','nginx']
package{$a:
      ensure=>present,
file{'/tmp/s.txt':
     content=> "installed",
                                 Read 7 lines ]
                                                                 ^C Cur Pos
             ^O Write Out ^W Where Is
^G Get Help
                                       ^K Cut Text
                                                    ^J Justify
             ^R Read File ^\
                                          Paste Text To Spell
^X Exit
                                       ^U
                             Replace
                                                                    Go To Line
```

 $\times$ 

Run "sudo yum update" to apply all updates. [ec2-user@ip-172-31-20-230 ~]\$ sudo yum install httpd php Loaded plugins: extras suggestions, langpacks, priorities, update-motd omplete!

ec2-user@ip-172-31-20-230 ~]\$ sudo yum install gcc glibc glibc-common

```
Complete!
[ec2-user@ip-172-31-20-230 ~]$ sudo yum install gd gd-devel
```

```
Complete!
[ec2-user@ip-172-31-20-230 ~]$ sudo adduser -m nagios
e.
```

```
Complete!
[ec2-user@ip-172-31-20-230 ~]$ sudo adduser -m nagios
[ec2-user@ip-172-31-20-230 ~]$ sudo passwd nagios
[hanging password for user nagios.
[New password:
[BAD PASSWORD: The password is shorter than 7 characters
[Retype new password:
[Basswd: all authentication tokens updated successfully.
[ec2-user@ip-172-31-20-230 ~]$ [
```

```
[ec2-user@ip-172-31-20-230 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-20-230 ~]$ sudo usermod -a -G nagcmd nagios
[ec2-user@ip-172-31-20-230 ~]$ mkdir ~/downloads
[ec2-user@ip-172-31-20-230 ~]$ cd ~/downloads
[ec2-user@ip-172-31-20-230 downloads]$ wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
--2022-10-19 13:37:59-- http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
Resolving prdownloads.sourceforge.net (prdownloads.sourceforge.net)... 204.68.11
l.105
Connecting to prdownloads.sourceforge.net (prdownloads.sourceforge.net)|204.68.1
l1.105|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.
```

```
[ec2-user@ip-172-31-20-230 downloads]$ wget http://nagios-plugins.org/download/n 🔺
agios-plugins-2.0.3.tar.gz
--2022-10-19 13:38:49-- http://nagios-plugins.org/download/nagios-plugins-2.0.3
.tar.qz
Resolving nagios-plugins.org (nagios-plugins.org)... 45.56.123.251
Connecting to nagios-plugins.org (nagios-plugins.org) | 45.56.123.251 | :80... conne
cted.
HTTP request sent, awaiting response... 200 OK
Length: 2659772 (2.5M) [application/x-gzip]
Saving to: 'nagios-plugins-2.0.3.tar.gz'
2022-10-19 13:38:49 (9.54 MB/s) - 'nagios-plugins-2.0.3.tar.gz' saved [2659772/2
6597721
[ec2-user@ip-172-31-20-230 downloads]$ tar zxvf nagios-4.0.8.tar.gz
nagios-4.0.8/
nagios-4.0.8/.gitignore
nagios-4.0.8/Changelog
nagios-4.0.8/INSTALLING
nagios-4.0.8/LEGAL
nagios-4.0.8/LICENSE
nagios-4.0.8/Makefile.in
```

```
[ec2-user@ip-172-31-20-230 downloads]$ cd nagios-4.0.8
[ec2-user@ip-172-31-20-230 nagios-4.0.8]$ ./configure --with-command-group=nagcm
checking for a BSD-compatible install... /usr/bin/install -c
checking build system type... x86 64-unknown-linux-gnu
checking host system type... x86 64-unknown-linux-gnu
checking for gcc... gcc
checking for C compiler default output file name... a.out
checking whether the C compiler works... yes
checking whether we are cross compiling... no
checking for suffix of executables...
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
```

```
[ec2-user@ip-172-31-20-230 nagios-4.0.8]$ make all
cd ./base && make
make[1]: Entering directory `/home/ec2-user/downloads/nagios-4.0.8/base'
gcc -Wall -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nagios.o nagios.c
gcc -Wall -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o broker.o broker.c
gcc -Wall -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o ../common/shared.o ../commo
n/shared.c
gcc -Wall -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nerd.o nerd.c
gcc -Wall -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o query-handler.o query-handler.c
```

make[1]: Leaving directory `/home/ec2-user/downloads/nagios-4.0.8'
[ec2-user@ip-172-31-20-230 nagios-4.0.8]\$ sudo make install-init

^^ INIC SCRIPT INSTALLED ^^^

ec2-user@ip-172-31-20-230 nagios-4.0.8]\$ sudo make install-config

[ec2-user@ip-172-31-20-230 nagios-4.0.8]\$ sudo make install-commandmode

```
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.

[ec2-user@ip-172-31-20-230 nagios-4.0.8]$ sudo make install-commandmode /usr/bin/install -c -m 775 -o nagios -g nagcmd -d /usr/local/nagios/var/rw chmod g+s /usr/local/nagios/var/rw

*** External command directory configured ***

[ec2-user@ip-172-31-20-230 nagios-4.0.8]$ sudo vim /usr/local/nagios/etc/object
```

```
[ec2-user@ip-172-31-20-230 nagios-4.0.8]$ sudo vim /usr/local/nagios/etc/object
s/contacts.cfg // change email.
4 files to edit
[ec2-user@ip-172-31-20-230 nagios-4.0.8]$ sudo make install-webconf
/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/httpd/conf.d/nagios.con
f

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

[ec2-user@ip-172-31-20-230 nagios-4.0.8]\$ sudo htpasswd -c /usr/local/nagios/etc /htpasswd.users nagiosadmin New password: Re-type new password: Adding password for user nagiosadmin [ec2-user@ip-172-31-20-230 nagios-4.0.8]\$

```
ec2-user@ip-172-31-20-230 nagios-4.0.8]$ sudo htpasswd -c /usr/local/nagios/etc
htpasswd.users nagiosadmin
lew password:
le-type new password:
dding password for user nagiosadmin
ec2-user@ip-172-31-20-230 nagios-4.0.8]$ sudo service httpd restart
dedirecting to /bin/systemctl restart httpd.service
ec2-user@ip-172-31-20-230 nagios-4.0.8]$ cd ~/downloads
ec2-user@ip-172-31-20-230 downloads]$ tar zxvf nagios-plugins-2.0.3.tar.gz
agios-plugins-2.0.3/
agios-plugins-2.0.3/perlmods/
agios-plugins-2.0.3/perlmods/Config-Tiny-2.14.tar.gz
agios-plugins-2.0.3/perlmods/parent-0.226.tar.gz
agios-plugins-2.0.3/perlmods/Test-Simple-0.98.tar.qz
agios-plugins-2.0.3/perlmods/Makefile.in
agios-plugins-2.0.3/perlmods/version-0.9903.tar.gz
agios-plugins-2.0.3/perlmods/Makefile.am
agios-plugins-2.0.3/perlmods/Module-Runtime-0.013.tar.gz
agios-plugins-2.0.3/perlmods/Module-Metadata-1.000014.tar.gz
agios-plugins-2.0.3/perlmods/Params-Validate-1.08.tar.gz
agios-plugins-2.0.3/perlmods/Class-Accessor-0.34.tar.gz
```

--with-trusted-path: /bin:/sbin:/usr/bin:/usr/sbin

--enable-libtap: no

```
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/$file; \
   done; \
  else \
  fi
  make[1]: Leaving directory `/home/ec2-user/downloads/nagios-plugins-2.0.3/po'
  make[1]: Entering directory `/home/ec2-user/downloads/nagios-plugins-2.0.3'
  make[2]: Entering directory `/home/ec2-user/downloads/nagios-plugins-2.0.3'
  make[2]: Nothing to be done for `install-exec-am'.
  make[2]: Nothing to be done for `install-data-am'.
  make[2]: Leaving directory `/home/ec2-user/downloads/nagios-plugins-2.0.3'
  make[1]: Leaving directory `/home/ec2-user/downloads/nagios-plugins-2.0.3'
  [ec2-user@ip-172-31-20-230 nagios-plugins-2.0.3]$ sudo chkconfig --add nagios
  [ec2-user@ip-172-31-20-230 nagios-plugins-2.0.3]$ sudo chkconfig --add nagios
  [ec2-user@ip-172-31-20-230 nagios-plugins-2.0.3]$ sudo chkconfig nagios on
  [ec2-user@ip-172-31-20-230 nagios-plugins-2.0.3]$ sudo chkconfig nagios on
[ec2-user@ip-172-31-20-230 nagios-plugins-2.0.3]$
```

```
ec2-user@ip-172-31-20-230:~/downloads/nagios-plugins-2.0.3
        Checked 8 services.
       Checked 1 hosts.
       Checked 1 host groups.
       Checked 0 service groups.
       Checked 1 contacts.
       Checked 1 contact groups.
       Checked 24 commands.
       Checked 5 time periods.
        Checked 0 host escalations.
       Checked 0 service escalations.
Checking for circular paths...
       Checked 1 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:
Things look okay - No serious problems were detected during the pre-flight check
[ec2-user@ip-172-31-20-230 nagios-plugins-2.0.3]$ sudo service nagios start
```

```
ec2-user@ip-172-31-20-230:~/downloads/nagios-plugins-2.0.3
Checking for circular paths...
        Checked 1 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
[ec2-user@ip-172-31-20-230 nagios-plugins-2.0.3]$ sudo service nagios start
Starting nagios (via systemctl):
[ec2-user@ip-172-31-20-230 nagios-plugins-2.0.3]$ http://ec2-xx-xxxx-xxxx-xxx.ap
-west-1.compute.amazonaws.com/nagios/
```