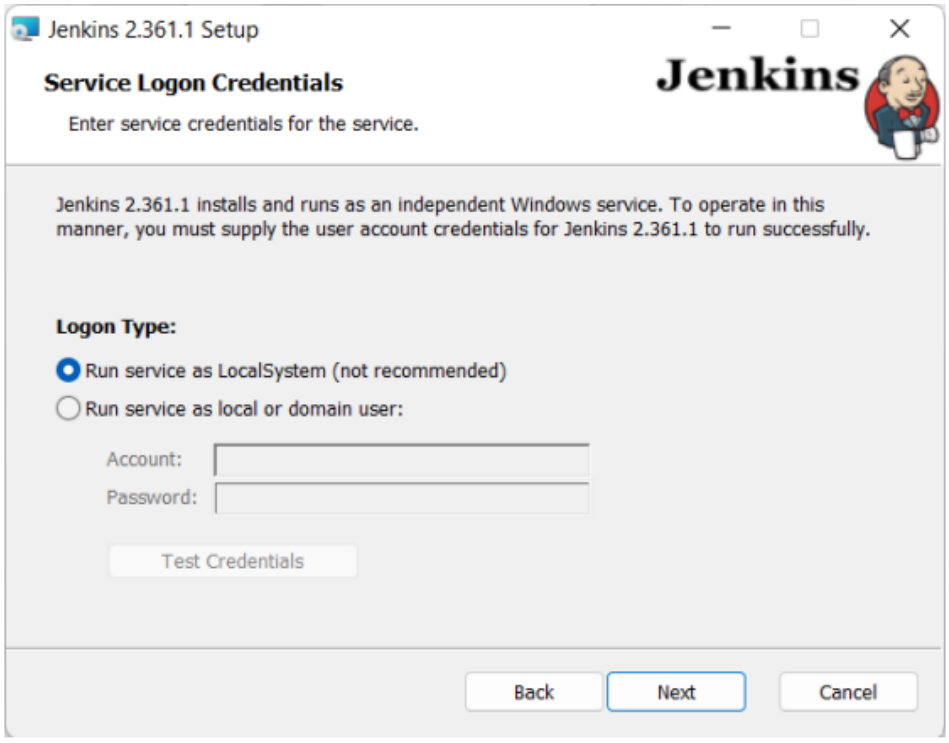
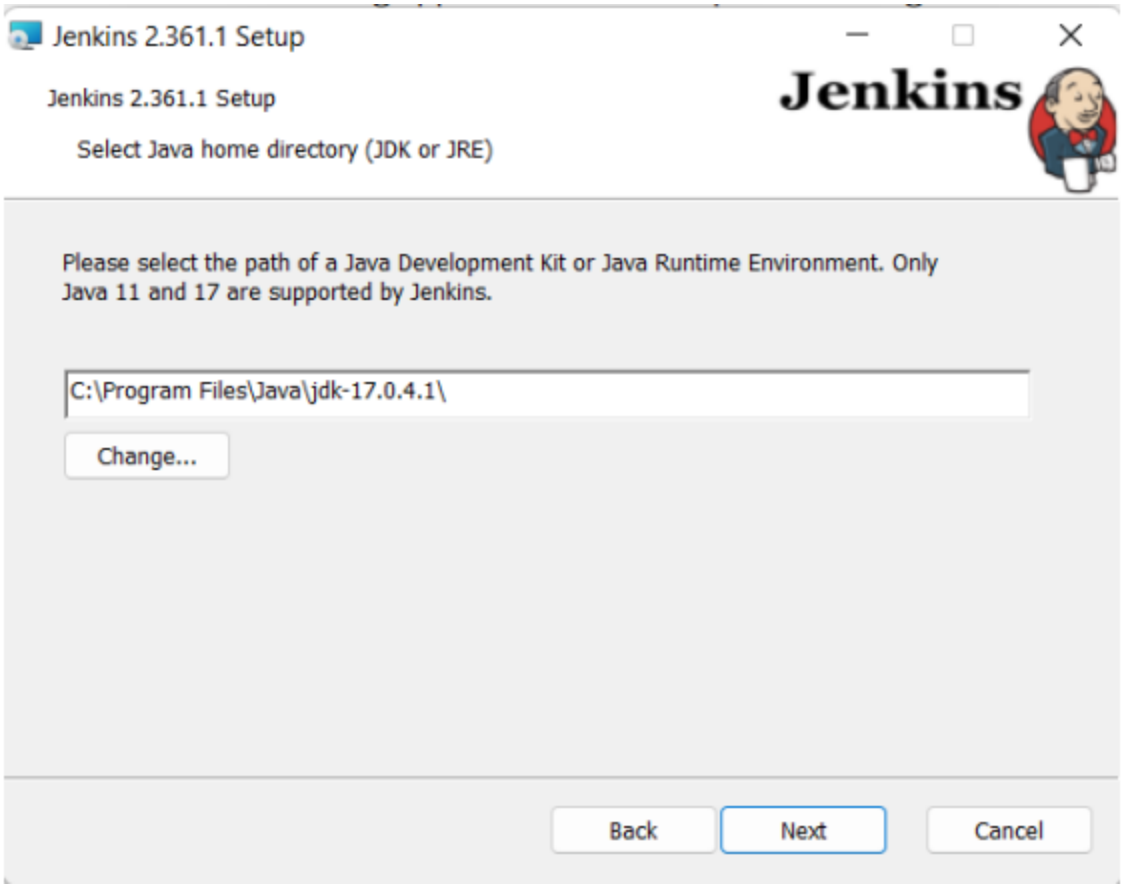
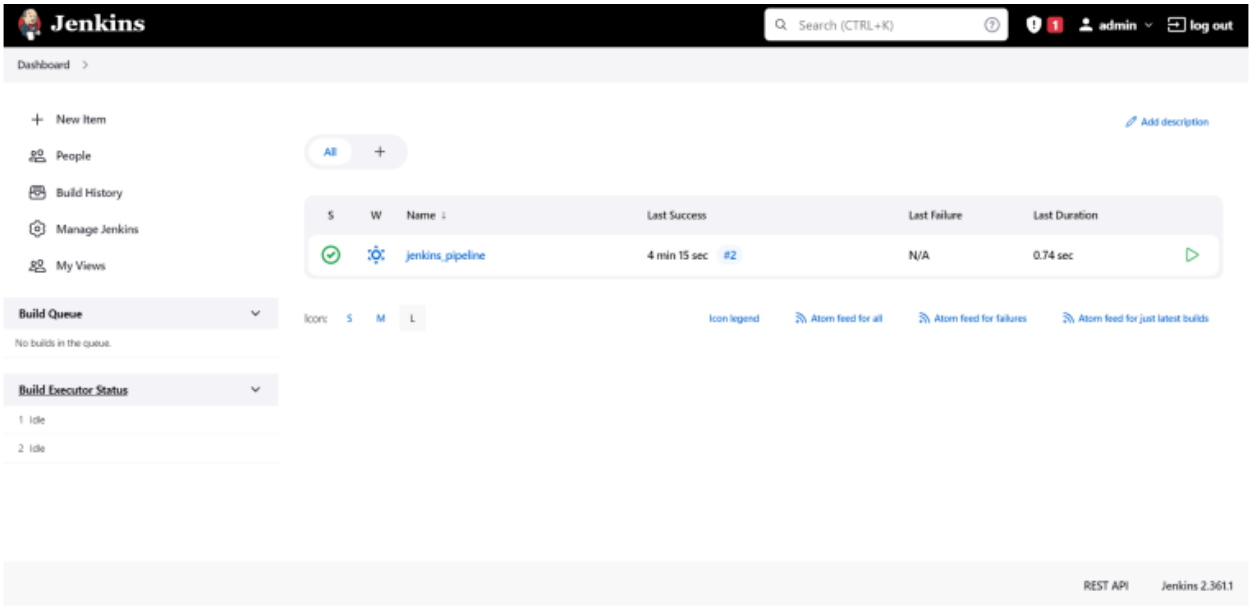
Aim: To understand Continuous integration, Jenkins installation.

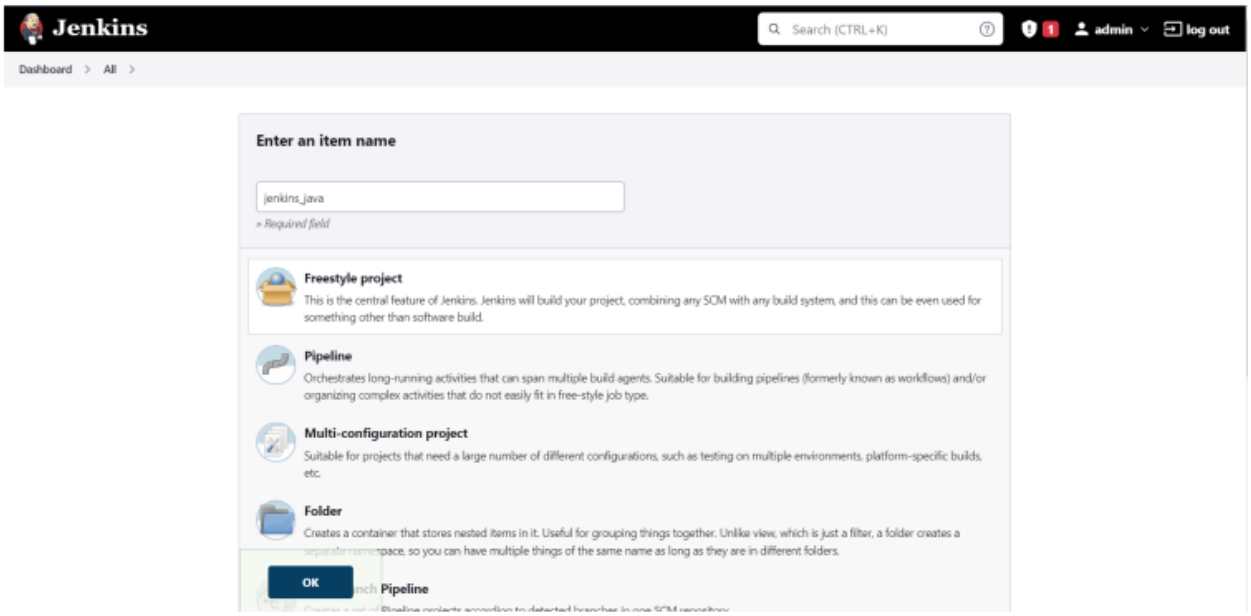


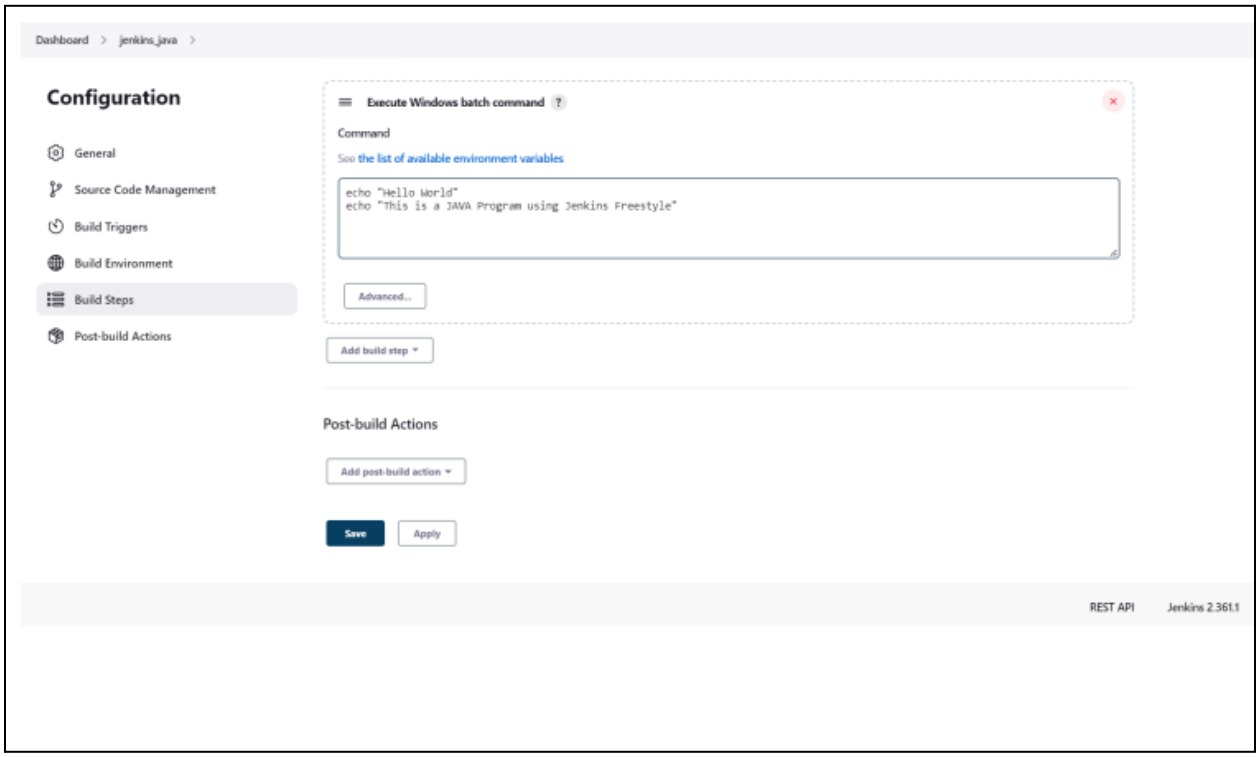

Jenkins 2.361.1 Setup
Jenkins 2.361.1 Setup
Select Java home directory (JDK or JRE)
Jenkins
Please select the path of a Java Development Kit or Java Runtime Environment. Only Java 11 and 17 are supported by Jenkins.
C:\Program Files\Java\jdk-17.0.4.1\
Change...
Back
Next
Cancel

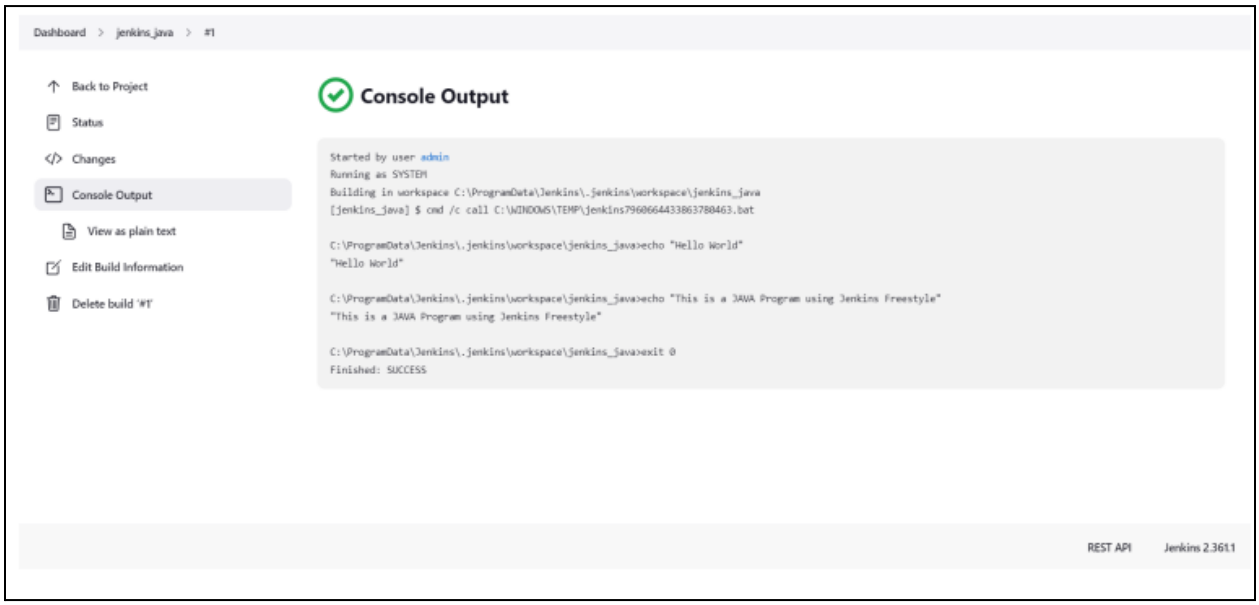
Jenkins 2.361.1 Setup
Completed the Jenkins 2.361.1 Setup Wizard
Click the Finish button to exit the Setup Wizard.
Back
Finish
Cancel

Aim: To Build Java program using Jenkins.

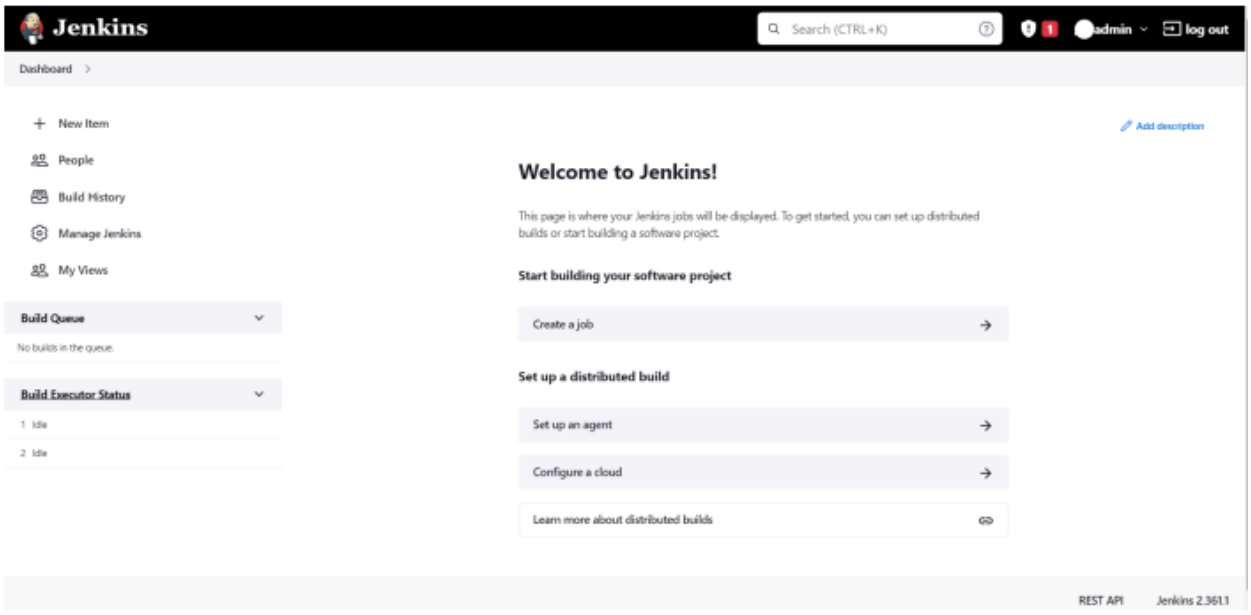


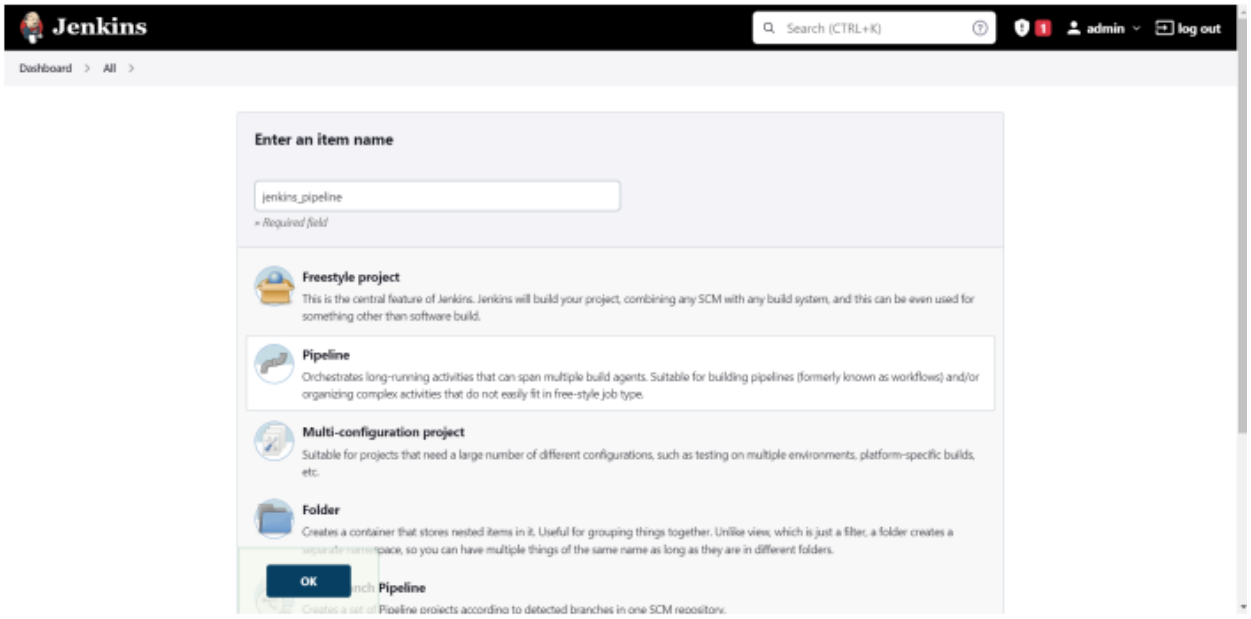


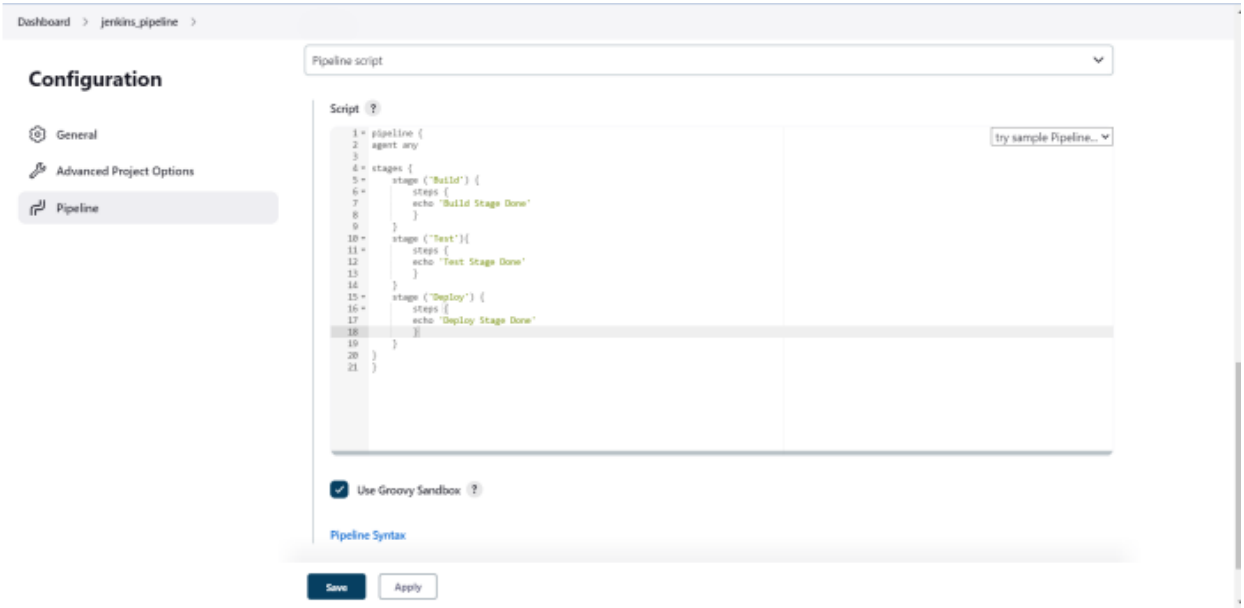

Dashboard > jenkins_java >
Configuration
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
Execute Windows batch command
Command
See the list of available environment variables
echo "Hello World"
echo "This is a JAVA Program using Jenkins Freestyle"
Advanced...
Add build step
Post-build Actions
Add post-build action
Save
Apply
REST API
Jenkins 2.361.1

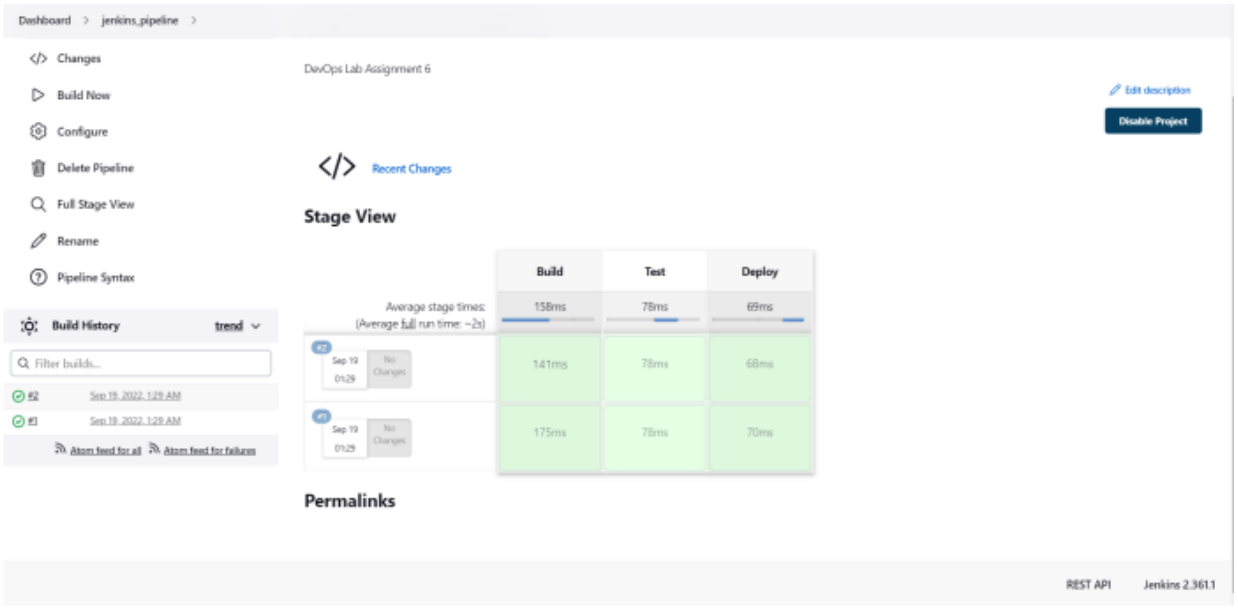

Dashboard > jenkins_java > #1
Back to Project
Status
Changes
Console Output
View as plain text
Edit Build Information
Delete build '#1'
Console Output
Started by user admin
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\jenkins_java
[jenkins_java] $ cmd /c call C:\WINDOWS\TEMP\jenkins7960664433863780463.bat
C:\ProgramData\Jenkins\.jenkins\workspace\jenkins_java>echo "Hello World"
"Hello World"
C:\ProgramData\Jenkins\.jenkins\workspace\jenkins_java>echo "This is a JAVA Program using Jenkins Freestyle"
"This is a JAVA Program using Jenkins Freestyle"
C:\ProgramData\Jenkins\.jenkins\workspace\jenkins_java>exit 0
Finished: SUCCESS
REST API
Jenkins 2.361.1

Aim: To Build pileline using Jenkins.

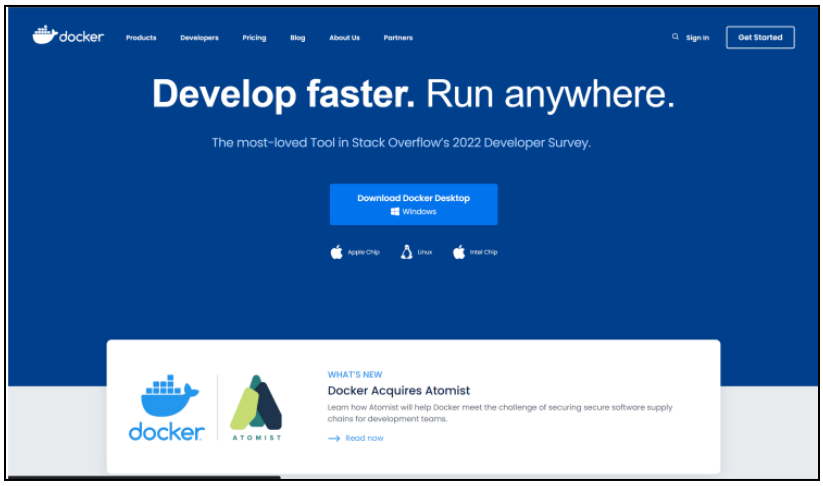


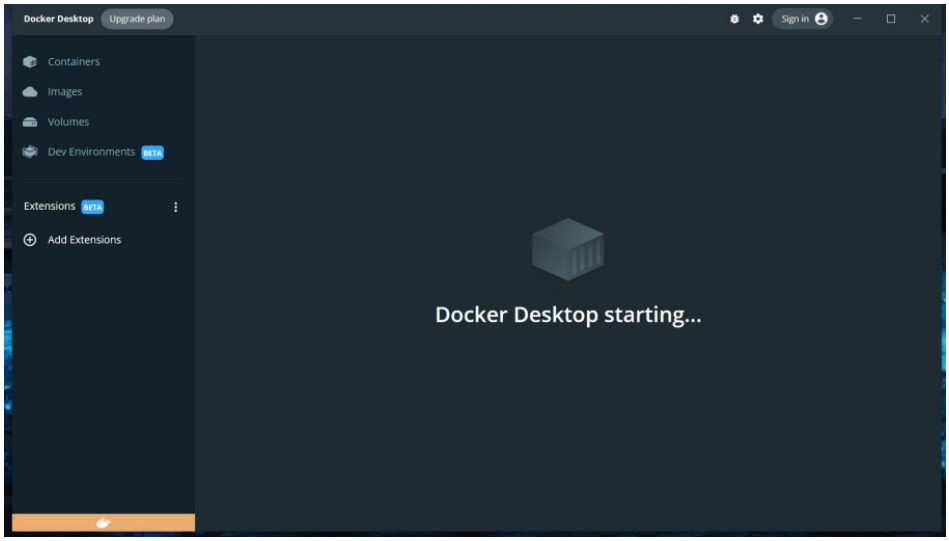


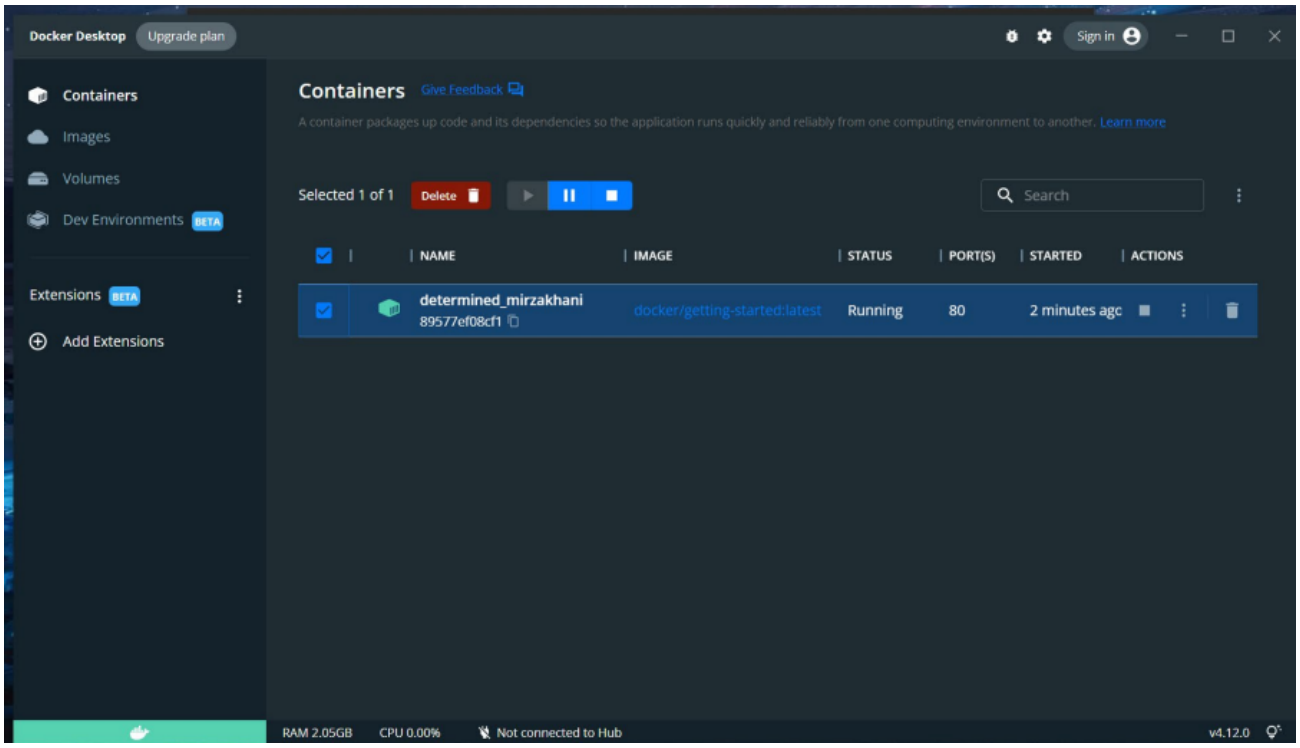

Dashboard > jenkins_pipeline >
Configuration
General
Advanced Project Options
Pipeline
Pipeline script
Script
try sample Pipeline...
pipeline {
agent any
stages {
stage ('Build') {
steps {
echo 'Build Stage Done'
}
}
stage ('Test'){
steps {
echo 'Test Stage Done'
}
}
stage ('Deploy') {
steps {
echo 'Deploy Stage Done'
}
}
}
Use Groovy Sandbox
Pipeline Syntax
Save
Apply

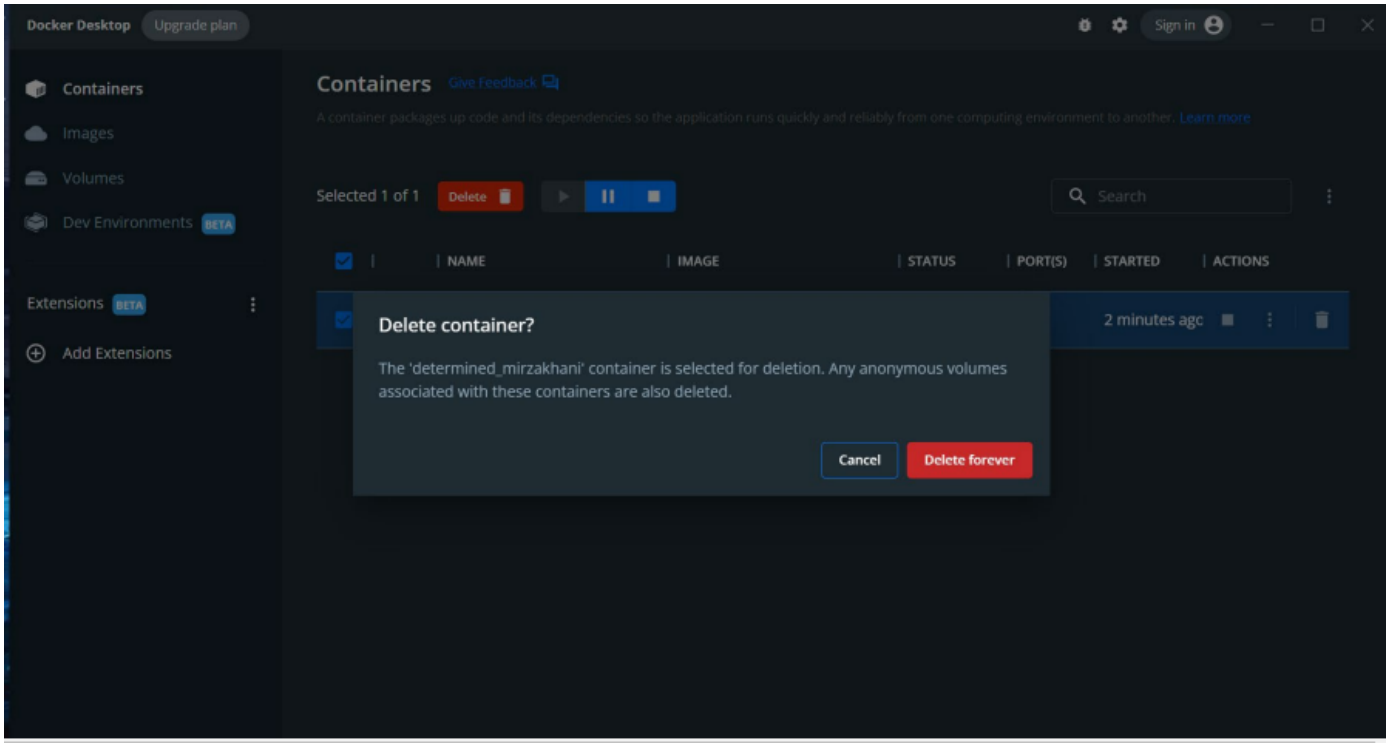

Dashboard > jenkins_pipeline >
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
Rename
Pipeline Syntax
Build History
trend
Filter builds...
#2 Sep 19, 2022, 1:29 AM
#1 Sep 19, 2022, 1:29 AM
Atom feed for all
Atom feed for failures
DevOps Lab Assignment 6
Edit description
Disable Project
Recent Changes
Stage View
Build
Test
Deploy
Average stage times:
(Average full run time: ~2s)
158ms
78ms
69ms
#2
Sep 19
01:29
No Changes
141ms
78ms
68ms
#1
Sep 19
01:29
No Changes
175ms
78ms
70ms
Permalinks
REST API
Jenkins 2.361.1

Aim: Deploying first docker container

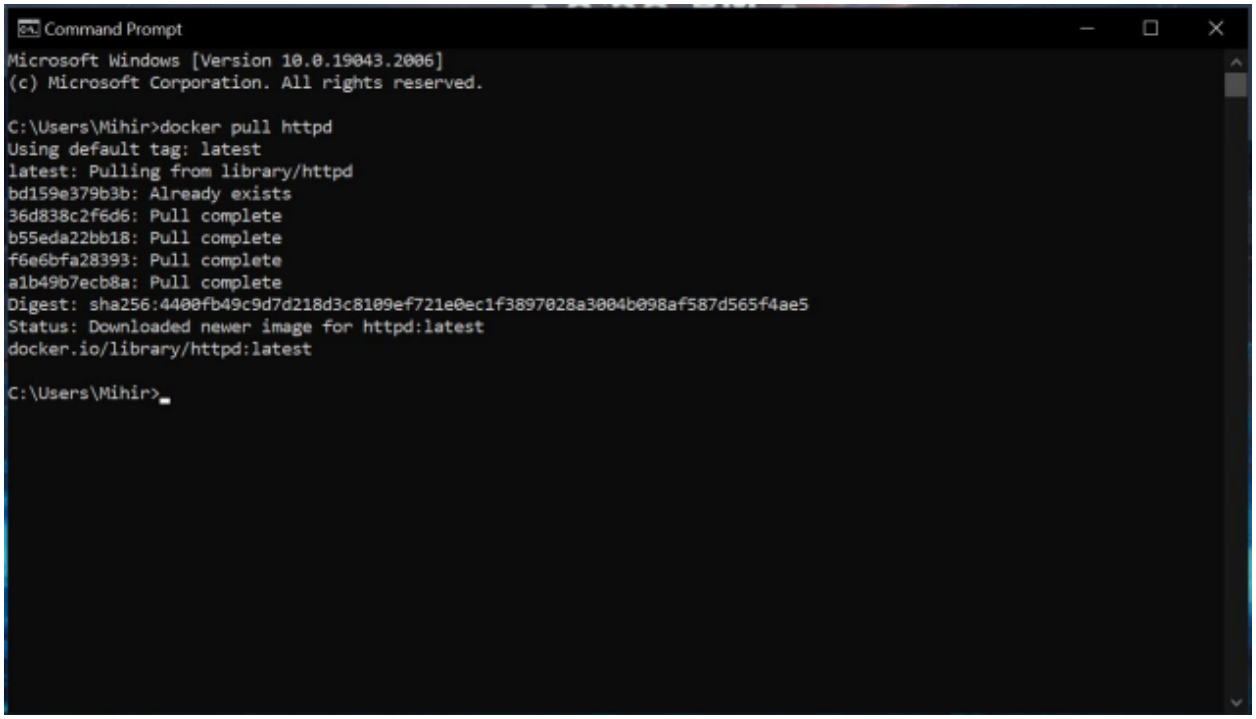


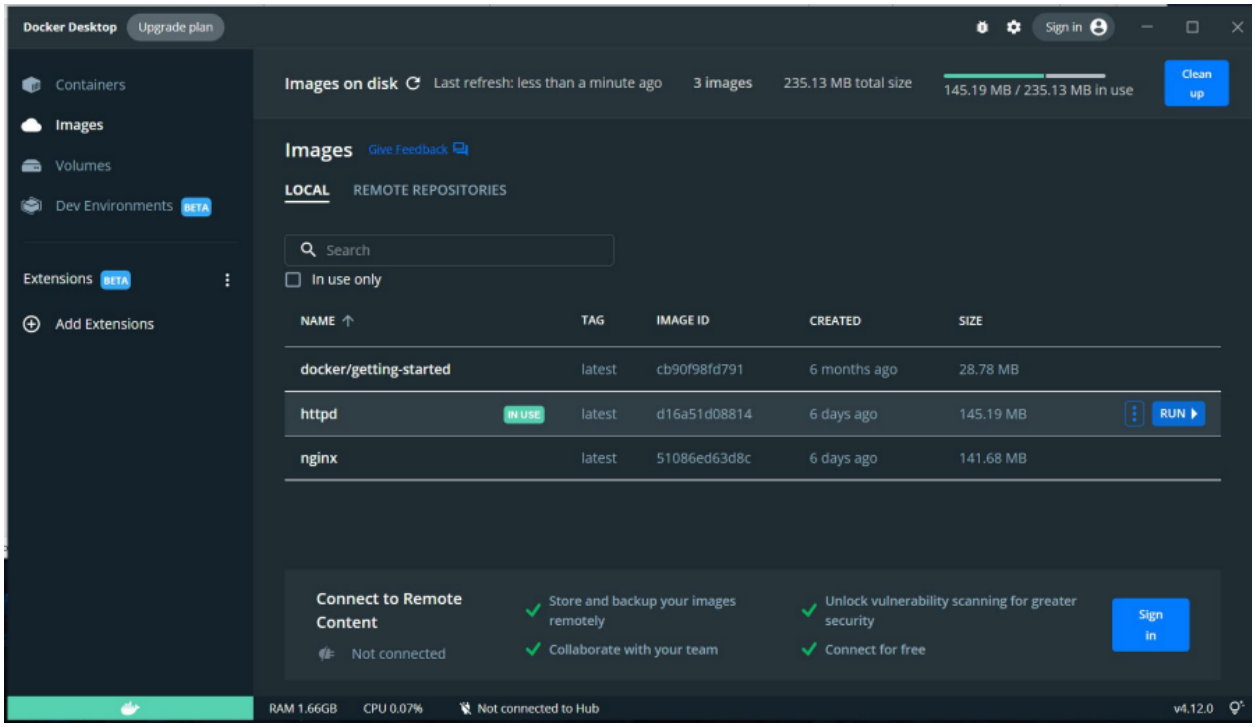


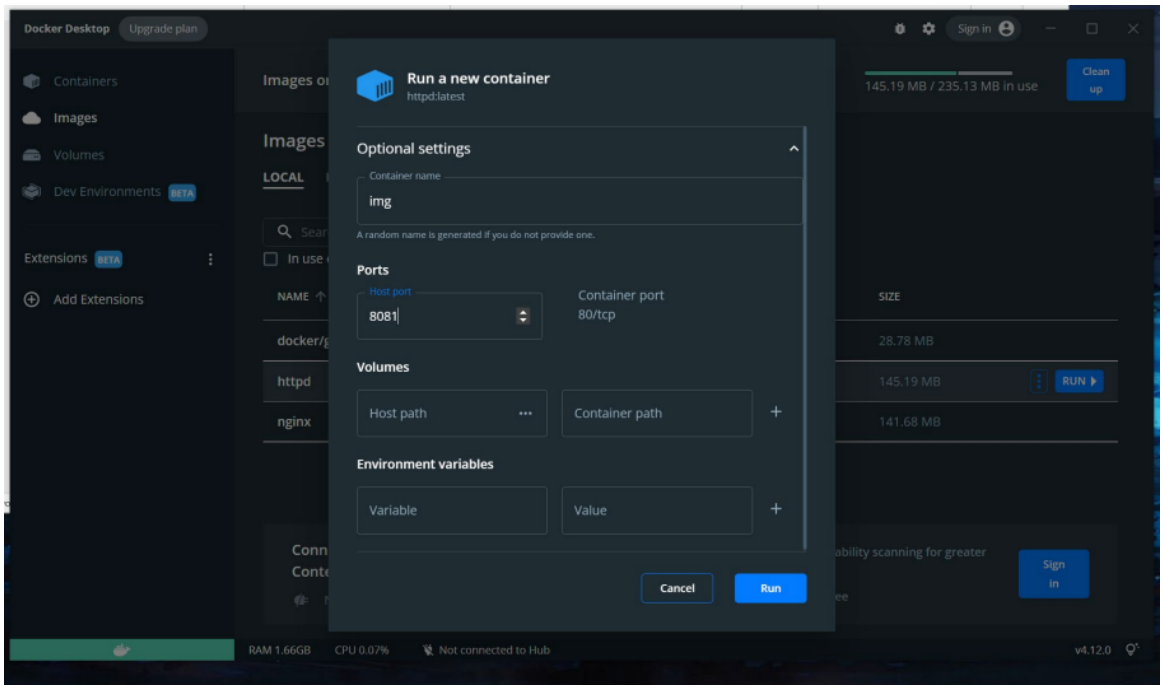

Docker Desktop
Upgrade plan
Sign in
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Containers
Give Feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Selected 1 of 1
Delete
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
determined_mirzakhani
89577ef08cf1
docker/getting-started:latest
Running
80
2 minutes ago
RAM 2.05GB
CPU 0.00%
Not connected to Hub
v4.12.0

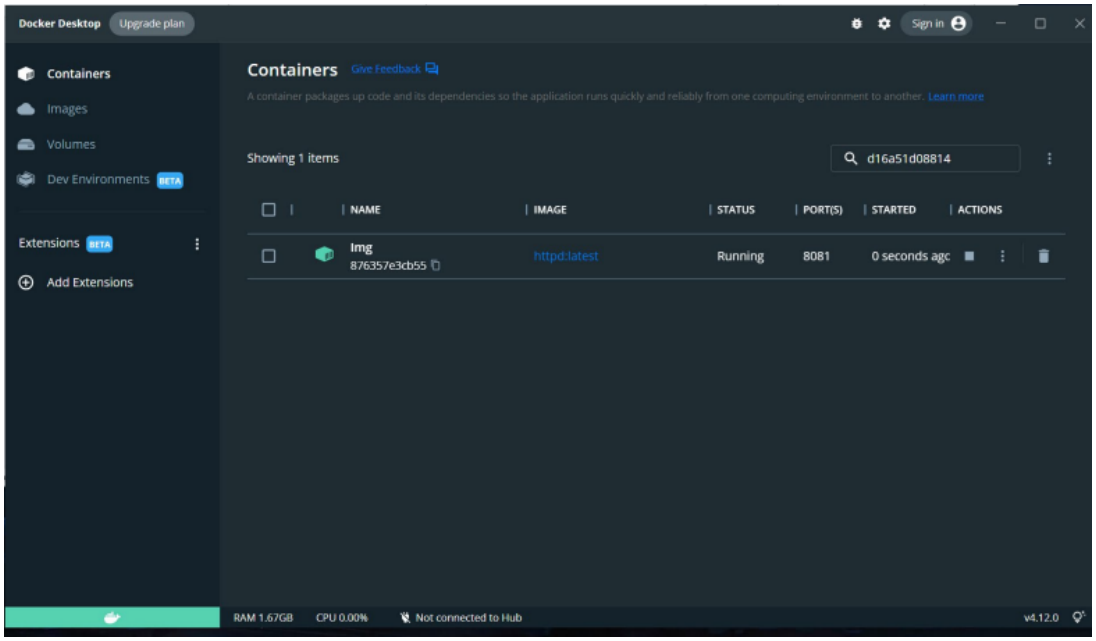

Docker Desktop
Upgrade plan
Sign in
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Containers
Give Feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Selected 1 of 1
Delete
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
2 minutes ago
Delete container?
The 'determined_mirzakhani' container is selected for deletion. Any anonymous volumes associated with these containers are also deleted.
Cancel
Delete forever

Aim: Deploying static web page as a container



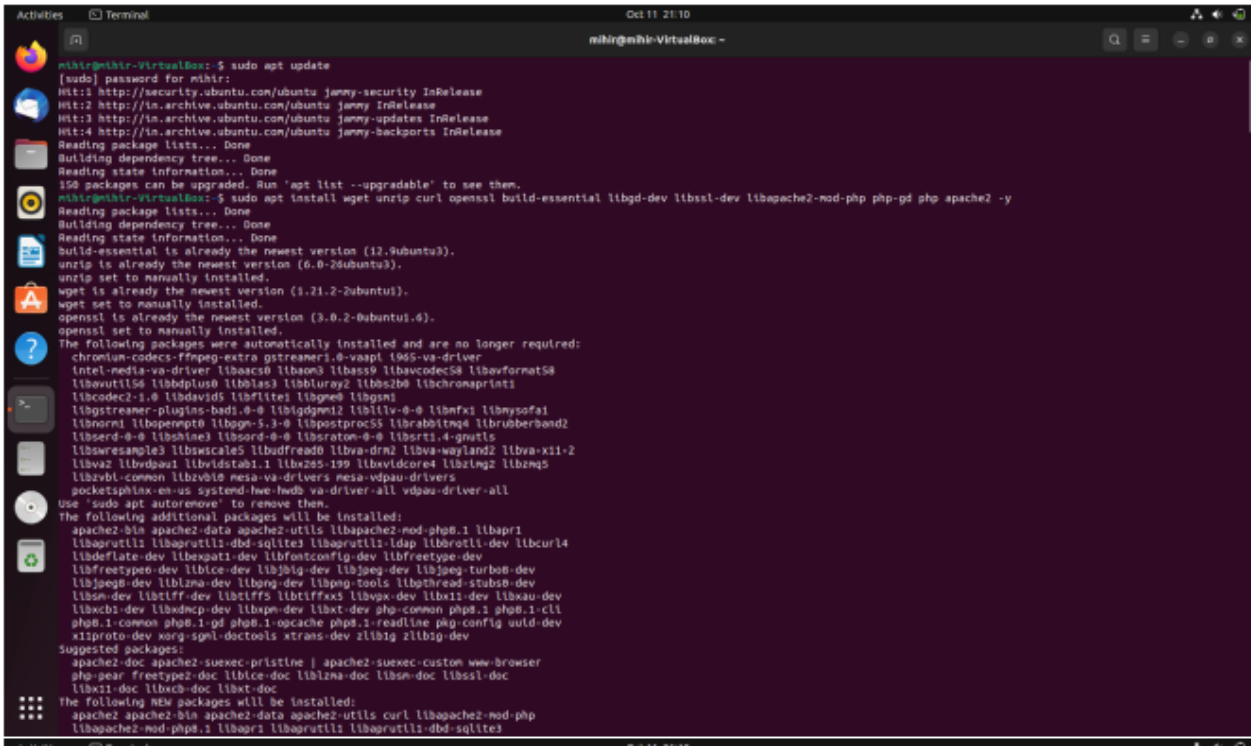


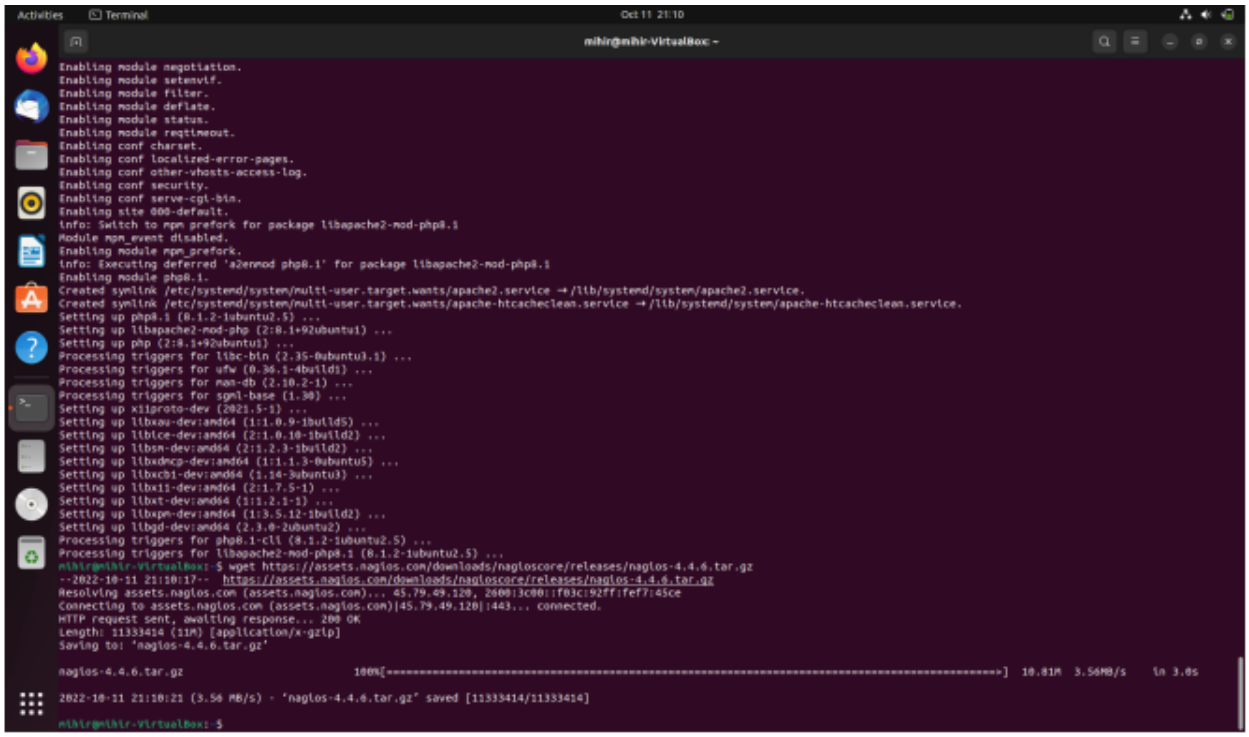

Docker Desktop
Upgrade plan
Sign in
Containers
Images
Volumes
Dev Environments
BETA
Extensions
Add Extensions
Run a new container
httpd:latest
Optional settings
Container name
img
A random name is generated if you do not provide one.
Ports
Host port
8081
Container port
80/tcp
Volumes
Host path
Container path
Environment variables
Variable
Value
Cancel
Run
145.19 MB / 235.13 MB in use
Clean up
LOCAL
NAME
SIZE
28.78 MB
145.19 MB
RUN
141.68 MB
Sign in
RAM 1.66GB
CPU 0.07%
Not connected to Hub
v4.12.0

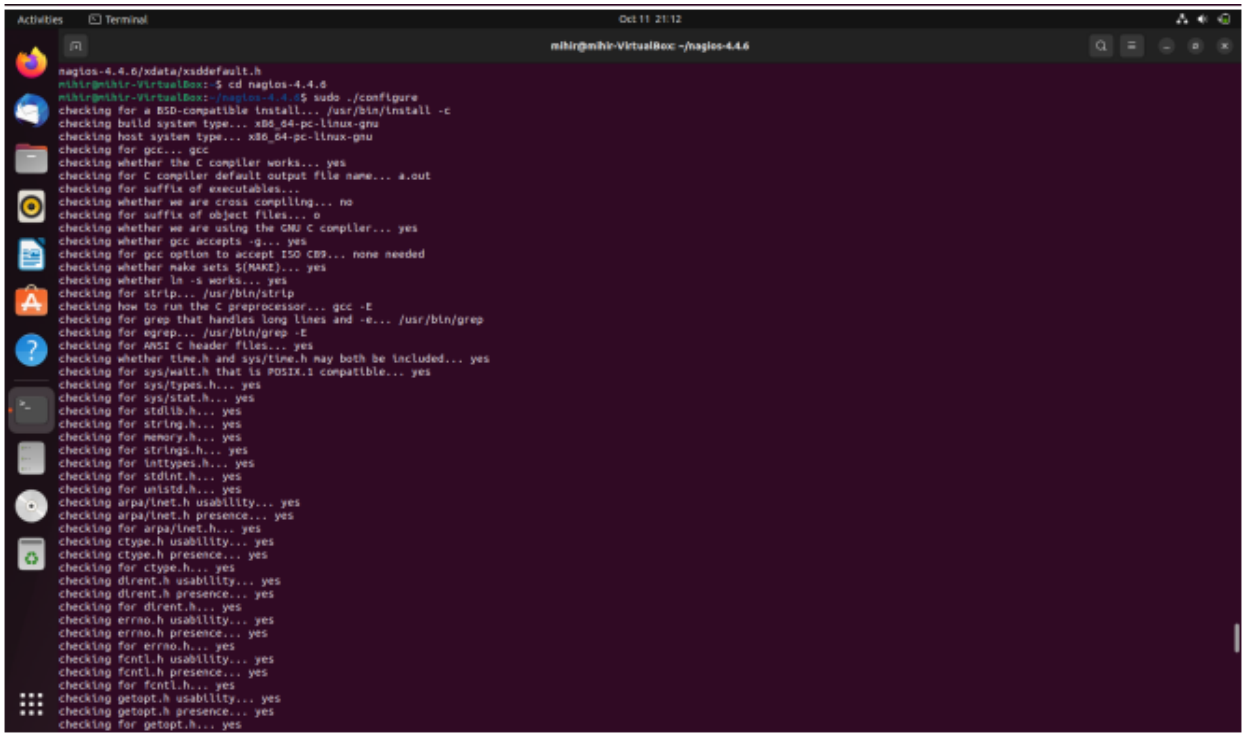

Docker Desktop
Upgrade plan
Sign in
Containers
Images
Volumes
Dev Environments
BETA
Extensions
Add Extensions
Containers
Give Feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Showing 1 items
d16a51d08814
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
Img
876357e3cb55
httpd:latest
Running
8081
0 seconds ago
RAM 1.67GB
CPU 0.00%
Not connected to Hub
v4.12.0

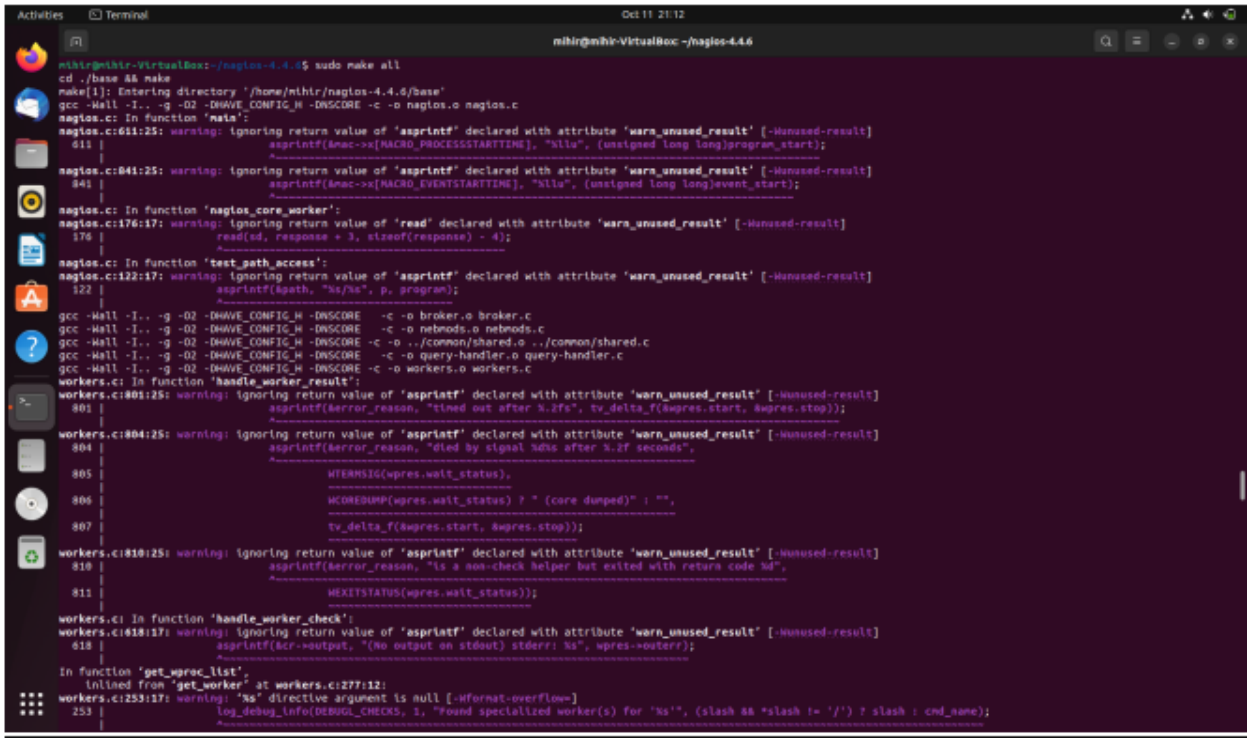
http://localhost:8080
localhost:8081
localhost:8081
It works!

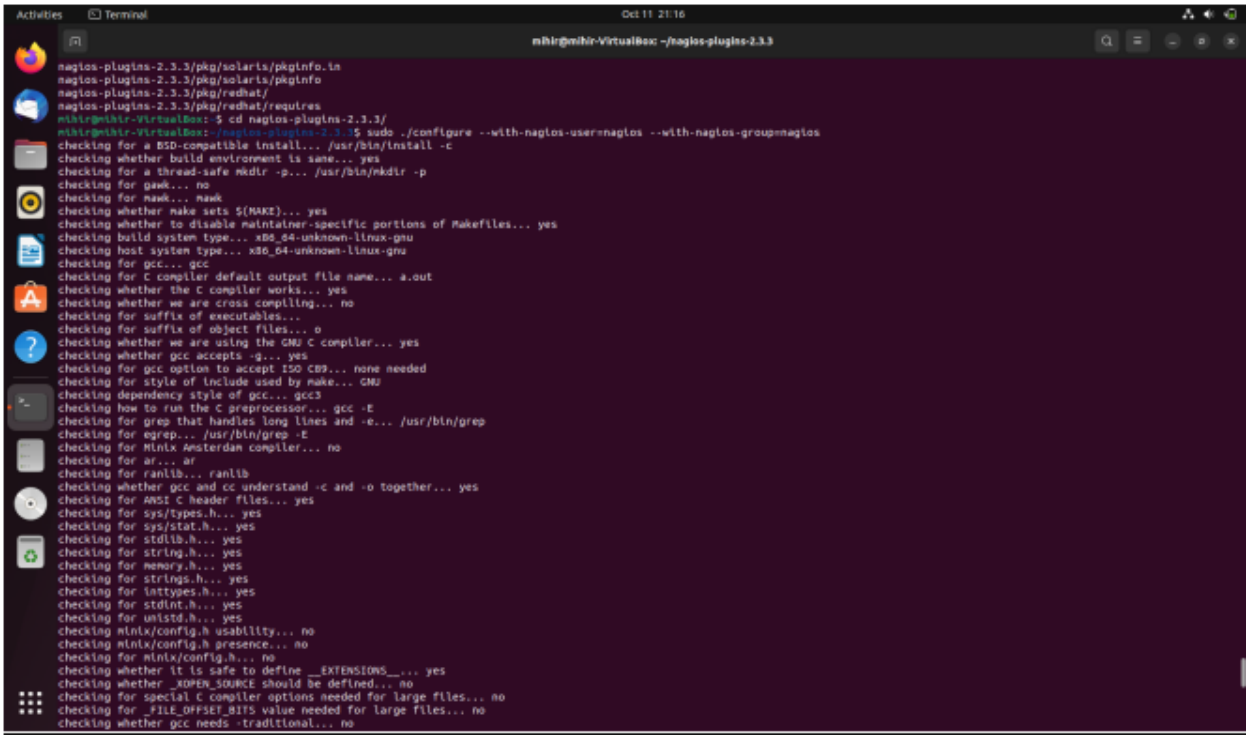
Aim: Installing Nagios on Ubuntu 14.04 and monitoring localhost

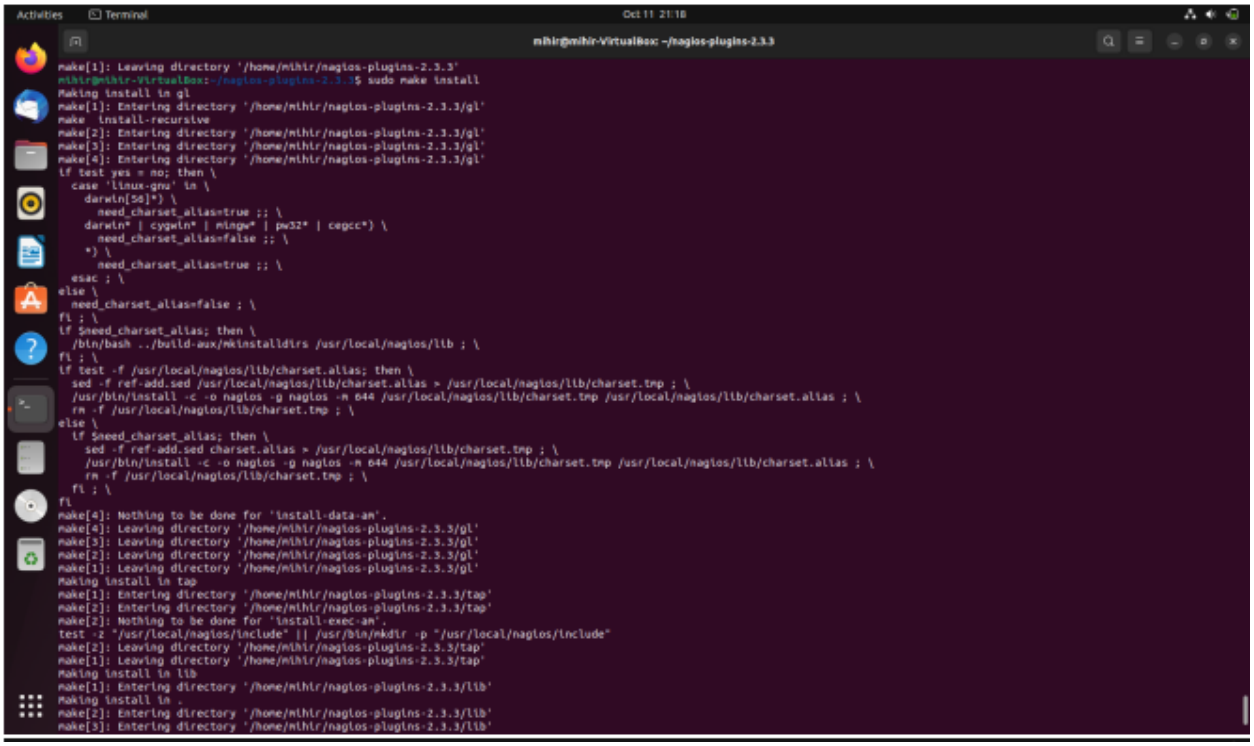





Activities
Terminal
Oct 11 21:12
mihir@mihir-VirtualBox: ~/nagios-4.4.6
nagios-4.4.6/xdata/xsddefault.h
mihir@mihir-VirtualBox: $ cd nagios-4.4.6
mihir@mihir-VirtualBox: ~/nagios-4.4.6$ sudo ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking build system type... x86_64-pc-linux-gnu
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 for unistd.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


Activities
Terminal
Oct 11 21:12
mihir@mihir-VirtualBox: ~/nagios-4.4.6
mihir@mihir-VirtualBox:~/nagios-4.4.6$ sudo make all
cd ./base && make
make[1]: Entering directory '/home/mihir/nagios-4.4.6/base'
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nagios.o nagios.c
nagios.c: In function 'main':
nagios.c:611:25: warning: ignoring return value of 'asprintf' declared with attribute 'warn_unused_result' [-Wunused-result]
611 | asprintf(&mac->x[MACRO_PROCESSSTARTTIME], "%llu", (unsigned long long)program_start);
nagios.c:841:25: warning: ignoring return value of 'asprintf' declared with attribute 'warn_unused_result' [-Wunused-result]
841 | asprintf(&mac->x[MACRO_EVENTSTARTTIME], "%llu", (unsigned long long)event_start);
nagios.c: In function 'nagios_core_worker':
nagios.c:176:17: warning: ignoring return value of 'read' declared with attribute 'warn_unused_result' [-Wunused-result]
176 | read(sd, response + 3, sizeof(response) - 4);
nagios.c: In function 'test_path_access':
nagios.c:122:17: warning: ignoring return value of 'asprintf' declared with attribute 'warn_unused_result' [-Wunused-result]
122 | asprintf(&path, "%s/%s", p, program);
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
workers.c: In function 'handle_worker_result':
workers.c:801:25: warning: ignoring return value of 'asprintf' declared with attribute 'warn_unused_result' [-Wunused-result]
801 | asprintf(&error_reason, "timed out after %.2fs", tv_delta_f(&wpres.start, &wpres.stop));
workers.c:804:25: warning: ignoring return value of 'asprintf' declared with attribute 'warn_unused_result' [-Wunused-result]
804 | asprintf(&error_reason, "died by signal %d%s after %.2f seconds",
805 | WTERMSIG(wpres.wait_status),
806 | WCOREDUMP(wpres.wait_status) ? " (core dumped)" : "",
807 | tv_delta_f(&wpres.start, &wpres.stop));
workers.c:810:25: warning: ignoring return value of 'asprintf' declared with attribute 'warn_unused_result' [-Wunused-result]
810 | asprintf(&error_reason, "is a non-check helper but exited with return code %d",
811 | WEXITSTATUS(wpres.wait_status));
workers.c: In function 'handle_worker_check':
workers.c:618:17: warning: ignoring return value of 'asprintf' declared with attribute 'warn_unused_result' [-Wunused-result]
618 | asprintf(&cr->output, "(No output on stdout) stderr: %s", wpres->outerr);
In function 'get_wproc_list',
inlined from 'get_worker' at workers.c:277:12:
workers.c:253:17: warning: '%s' directive argument is null [-Wformat-overflow=]
253 | log_debug_info(DEBUGL_CHECKS, 1, "Found specialized worker(s) for '%s'", (slash && *slash != '/') ? slash : cmd_name);


Activities
Terminal
Oct 11 21:16
mihir@mihir-VirtualBox: ~/nagios-plugins-2.3.3
nagios-plugins-2.3.3/pkg/solaris/pkginfo.in
nagios-plugins-2.3.3/pkg/solaris/pkginfo
nagios-plugins-2.3.3/pkg/redhat/
nagios-plugins-2.3.3/pkg/redhat/requires
mihir@mihir-VirtualBox: $ cd nagios-plugins-2.3.3/
mihir@mihir-VirtualBox:~/nagios-plugins-2.3.3$ sudo ./configure --with-nagios-user=nagios --with-nagios-group=nagios
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... no
checking for mawk... mawk
checking whether make sets $(MAKE)... yes
checking whether to disable maintainer-specific portions of Makefiles... yes
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
checking for style of include used by make... GNU
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 whether gcc and cc understand -c and -o together... yes
checking for ANSI C header files... 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 minix/config.h usability... no
checking minix/config.h presence... no
checking for minix/config.h... no
checking whether it is safe to define __EXTENSIONS__... yes
checking whether _XOPEN_SOURCE should be defined... no
checking for special C compiler options needed for large files... no
checking for _FILE_OFFSET_BITS value needed for large files... no
checking whether gcc needs -traditional... no


Activities
Terminal
Oct 11 21:18
mihir@mihir-VirtualBox: ~/nagios-plugins-2.3.3
make[1]: Leaving directory '/home/mihir/nagios-plugins-2.3.3'
mihir@mihir-VirtualBox:~/nagios-plugins-2.3.3$ sudo make install
Making install in gl
make[1]: Entering directory '/home/mihir/nagios-plugins-2.3.3/gl'
make install-recursive
make[2]: Entering directory '/home/mihir/nagios-plugins-2.3.3/gl'
make[3]: Entering directory '/home/mihir/nagios-plugins-2.3.3/gl'
make[4]: Entering directory '/home/mihir/nagios-plugins-2.3.3/gl'
if test yes = no; then \
  case 'linux-gnu' in \
    darwin[56]*) \
      need_charset_alias=true ;; \
    darwin* | cygwin* | mingw* | pw32* | cegcc*) \
      need_charset_alias=false ;; \
    *) \
      need_charset_alias=true ;; \
  esac ; \
else \
  need_charset_alias=false ; \
fi ; \
if $need_charset_alias; then \
  /bin/bash ../build-aux/mkinstalldirs /usr/local/nagios/lib ; \
fi ; \
if test -f /usr/local/nagios/lib/charset.alias; then \
  sed -f ref-add.sed /usr/local/nagios/lib/charset.alias > /usr/local/nagios/lib/charset.tmp ; \
  /usr/bin/install -c -o nagios -g nagios -m 644 /usr/local/nagios/lib/charset.tmp /usr/local/nagios/lib/charset.alias ; \
  rm -f /usr/local/nagios/lib/charset.tmp ; \
else \
  if $need_charset_alias; then \
    sed -f ref-add.sed charset.alias > /usr/local/nagios/lib/charset.tmp ; \
    /usr/bin/install -c -o nagios -g nagios -m 644 /usr/local/nagios/lib/charset.tmp /usr/local/nagios/lib/charset.alias ; \
    rm -f /usr/local/nagios/lib/charset.tmp ; \
  fi ; \
fi
make[4]: Nothing to be done for 'install-data-am'.
make[4]: Leaving directory '/home/mihir/nagios-plugins-2.3.3/gl'
make[3]: Leaving directory '/home/mihir/nagios-plugins-2.3.3/gl'
make[2]: Leaving directory '/home/mihir/nagios-plugins-2.3.3/gl'
make[1]: Leaving directory '/home/mihir/nagios-plugins-2.3.3/gl'
Making install in tap
make[1]: Entering directory '/home/mihir/nagios-plugins-2.3.3/tap'
make[2]: Entering directory '/home/mihir/nagios-plugins-2.3.3/tap'
make[2]: Nothing to be done for 'install-exec-am'.
test -z "/usr/local/nagios/include" || /usr/bin/mkdir -p "/usr/local/nagios/include"
make[2]: Leaving directory '/home/mihir/nagios-plugins-2.3.3/tap'
make[1]: Leaving directory '/home/mihir/nagios-plugins-2.3.3/tap'
Making install in lib
make[1]: Entering directory '/home/mihir/nagios-plugins-2.3.3/lib'
Making install in .
make[2]: Entering directory '/home/mihir/nagios-plugins-2.3.3/lib'
make[3]: Entering directory '/home/mihir/nagios-plugins-2.3.3/lib'