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Course/Section: CPE31S5	Date Submitted: 11/15/2023
Instructor: Engr. Roman Richard	Semester and SY: 1st semester/2023-2024

Midterm Skills Exam: Install, Configure, and Manage Log Monitoring tools

1. Objectives

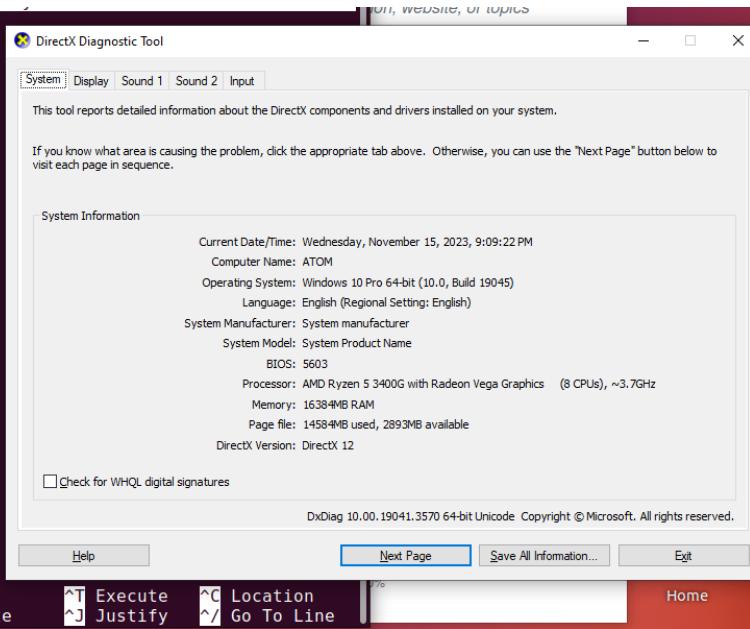
Create and design a workflow that installs, configure and manage enterprise availability, performance and log monitoring tools using Ansible as an Infrastructure as Code (IaC) tool.

2. Instructions

1. Create a repository in your GitHub account and label it CPE_MIDEXAM_SURNAME.
2. Clone the repository and do the following:
 - 2.1. Create an Ansible playbook that does the following with an input of a config.yaml file and arranged Inventory file:
 - 2.2. Install and configure Elastic Stack in separate hosts (Elastic Search, Kibana, Logstash) • Install Nagios in one host
 - 2.3. Install Grafana, Prometheus and Influxdb in separate hosts (Influxdb, Grafana, Prometheus)
 - 2.4. Install Lamp Stack in separate hosts (Httpd + Php, Mariadb)
3. Document all your tasks using this document. Provide proofs of all the ansible playbooks codes and successful installations.
4. Document the push and commit from the local repository to GitHub.
5. Finally, paste also the link of your GitHub repository in the documentation.

3. Output (screenshots and explanations)

Main Playbook



```

---
- hosts: all
  become: true
  pre_tasks:

    - name: install updates Ubuntu
      apt:
        update_cache: yes
        changed_when: false
      when: ansible_distribution == "Ubuntu"

    - name: install updates CentOS
      yum:
        update_only: yes
        update_cache: yes
        use_backend: dnf4
      when: ansible_distribution == "CentOS"

  - hosts: Ubuntu
    become: true
    roles:
      - Ubuntu

  - hosts: CentOS
    become: true
    roles:
      - CentOS

```

- Playbook that update the ubuntu and centos then call the roles of Ubuntu and CentOS

The terminal window shows the configuration of the InfluxDB repository:

```
GNU nano 6.2          influxdb.repo
[Influxdb]
name = InfluxDB Repository - RHEL \$releasever
baseurl =
https://repos.influxdata.com/rhel/\$releasever/\$basearch/stable
enabled = 1
gpgcheck = 1
gpgkey = https://repos.influxdata.com/influxdb.key
```

The DirectX Diagnostic Tool window shows system information:

System Information

- Current Date/Time: Wednesday, November 15, 2023, 9:09:22 PM
- Computer Name: ATOM
- Operating System: Windows 10 Pro 64-bit (10.0, Build 19045)
- Language: English (Regional Setting: English)
- System Manufacturer: System manufacturer
- System Model: System Product Name
- BIOS: 5603
- Processor: AMD Ryzen 5 3400G with Radeon Vega Graphics (8 CPUs), ~3.7GHz
- Memory: 16384MB RAM
- Page file: 14584MB used, 2893MB available
- DirectX Version: DirectX 12

Check for WHQL digital signatures

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Help Next Page Save All Information... Exit

- Repository that install the Influxdb

The terminal window shows the configuration of the Prometheus service:

```
GNU nano 6.2          prometheus.service
[Unit]
Description=ServicePrometheus
After=network.target

[Service]
Type=simple
ExecStart=/usr/local/bin/prometheus --config.file=/usr/local/bin/pro>

[Install]
WantedBy=multi-user.target
```

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GNU nano 6.2 main.yml

```
- name: Install prerequisites
  dnf:
    name:
      - java-1.8.0-openjdk
      - epel-release
      - wget
      - which
    state: latest
  use_backend: dnf4

- name: Add Elasticsearch RPM repository
  shell: rpm --import https://artifacts.elastic.co/GPG-KEY-elasticsearch

- name: Add Elasticsearch YUM repository
  copy:
    content: |
      [elasticsearch-7.x]
      name=Elasticsearch repository for 7.x packages
      baseurl=https://artifacts.elastic.co/packages/7.x/yum
      gpgcheck=1
      gpgkey=https://artifacts.elastic.co/GPG-KEY-elasticsearch
      enabled=1
      autorefresh=1
      type=rpm-md
  dest: /etc/yum.repos.d/elasticsearch.repo
  become: yes
```

G Help W Write Out M Where Is C Cut T Execute L Location J Justify G Go To Line

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Home

GNU nano 6.2 main.yml

```
- name: elasticsearch
  use_backend: dnf4
  state: latest

- name: Install Kibana
  dnf:
    name: kibana
    use_backend: dnf4
    state: latest

- name: Install Logstash for CentOS
  dnf:
    name: logstash
    use_backend: dnf4
    state: latest

- name: install php and httpd for CentOS
  dnf:
    name:
      - php
      - httpd
    state: latest
  use_backend: dnf4
  update_cache: yes

- name: install mariadb for CentOS
```

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GNU nano 6.2 main.yml

```
group: root

- name: Configuring Prometheus#
  shell: |
    cd ~/prometheus/prometheus*
    cp -r . /usr/local/bin/prometheus

- name: Check SELinux status
  command: getenforce
  register: selinux_status

- name: Disable SELinux if enabled
  when: selinux_status.stdout == "Enforcing"
  command: setenforce 0

- name: Modify SELinux configurations
  lineinfile:
    path: /etc/sysconfig/selinux
    regexp: '^SELINUX='
    line: 'SELINUX=disabled'
  when: selinux_status.stdout == "Enforcing"

- name: Reboot system if SELinux was disabled
  command: reboot
  async: 0
  poll: 0
  when: selinux_status.stdout == "Enforcing"
```

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Home

- Code for installation in CentOS

rustom@localmachine: ~/CPE_MIDEXAM_CARINO/roles/Ubuntu/tasks

```
GNU nano 6.2          main.yml
```

```

- name: install nagios for Ubuntu
  apt:
    name:
      - nagios4-core
      - nagios-plugins
  state: latest

- name: Install necessary prerequisites
  apt:
    name:
      - default-jre
      - apt-transport-https
      - curl
      - software-properties-common
    state: latest
  become: yes

- name: Add Elasticsearch GPG key
  apt_key:
    url: https://artifacts.elastic.co/GPG-KEY-elasticsearch
  become: yes

- name: Add Elasticsearch APT repository
  apt_repository:
    repo: "deb https://artifacts.elastic.co/packages/7.x/apt stable main"

```

[Read 137 lines]

G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location ^X Exit ^R Read File ^U Replace ^P Paste ^J Justify ^/ Go To Line

D DirectX Diagnostic Tool

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rustom@localmachine: ~/CPE_MIDEXAM_CARINO/roles/Ubuntu/tasks

```
GNU nano 6.2          main.yml
```

```

- name: install apache2 and php packages for Ubuntu
  apt:
    name:
      - apache2
      - libapache2-mod-php
  state: latest

- name: install mariadb package Ubuntu
  apt:
    name: mariadb-server
  state: latest

- name: "Mariadb- Restarting/Enabling"
  service:
    name: mariadb
  state: restarted
  enabled: true

- name: Install Prometheus for Ubuntu
  apt:
    name: prometheus
  state: latest

- name: Prometheus Start service
  service:

```

[Read 137 lines]

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rustom@localmachine: ~/CPE_MIDEXAM_CARINO/roles/Ubuntu/tasks

```
GNU nano 6.2          main.yml
```

```

- name: Installing dependencies
  apt:
    name:
      - apt-transport-https
      - software-properties-common
      - wget
  state: latest

- name: Adding Influxdb in the repository
  shell:
    | wget -q https://repos.influxdata.com/influxdb.key
    | sleep 5
    | echo '23a1c8836f0afc5ed24e0486339d7cc8f6790b83886c4c969'
    | sleep 5
    | echo 'deb [signed-by=/etc/apt/trusted.gpg.d/influxdb.gpg]

```

- name: Installing Influxdb
 apt:
 name:
 - influxdb
 state: latest

- name: Making sure that the Influxd is enabled and started
 service:
 name: influxdb
 state: started
 enabled: true

[Read 137 lines]

G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location ^X Exit ^R Read File ^U Replace ^P Paste ^J Justify ^/ Go To Line

D DirectX Diagnostic Tool

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- Codes for installation in Ubuntu

Playbook output

```
rustom@localmachine:~/CPE_MIDEXAM_CARINO
rustom@localmachine:~/CPE_MIDEXAM_CARINO$ ansible-playbook --ask-become-pass config.yml
BECOME password:

PLAY [all] ****
TASK [Gathering Facts] ****
ok: [192.168.56.119]
ok: [192.168.56.118]

TASK [install updates Ubuntu] ****
skipping: [192.168.56.118]
ok: [192.168.56.119]

TASK [install updates CentOS] ****
skipping: [192.168.56.119]
ok: [192.168.56.118]

PLAY [Ubuntu] ****
TASK [Gathering Facts] ****
ok: [192.168.56.119]

TASK [Ubuntu : install nagios for Ubuntu] ****
ok: [192.168.56.119]

TASK [Ubuntu : Install necessary prerequisites] ****
ok: [192.168.56.119]

TASK [Ubuntu : Add Elasticsearch GPG key] ****
ok: [192.168.56.119]

TASK [Ubuntu : Add Elasticsearch APT repository] ****
ok: [192.168.56.119]

rustom@localmachine:~/CPE_MIDEXAM_CARINO
TASK [Ubuntu : Add Elasticsearch APT repository] ****
ok: [192.168.56.119]

TASK [Ubuntu : Install Elasticsearch] ****
ok: [192.168.56.119]

TASK [Ubuntu : Install Kibana] ****
ok: [192.168.56.119]

TASK [Ubuntu : Install Logstash] ****
ok: [192.168.56.119]

TASK [Ubuntu : install apache2 and php packages for Ubuntu] ****
ok: [192.168.56.119]

TASK [Ubuntu : install mariadb package Ubuntu] ****
ok: [192.168.56.119]

TASK [Ubuntu : Mariadb- Restarting/Enabling] ****
changed: [192.168.56.119]

TASK [Ubuntu : Install Prometheus for Ubuntu] ****
ok: [192.168.56.119]

TASK [Ubuntu : Prometheus Start service] ****
changed: [192.168.56.119]

TASK [Ubuntu : Install dependencies] ****
ok: [192.168.56.119]

TASK [Ubuntu : Add Grafana APT repository key] ****
ok: [192.168.56.119]

TASK [Ubuntu : Add Grafana APT repository] ****
ok: [192.168.56.119]

TASK [Ubuntu : Install Grafana] ****
ok: [192.168.56.119]

TASK [Ubuntu : Start and enable Grafana service] ****
ok: [192.168.56.119]

TASK [Ubuntu : Installing dependencies] ****
ok: [192.168.56.119]

TASK [Ubuntu : Adding Influxdb in the repository] ****
changed: [192.168.56.119]

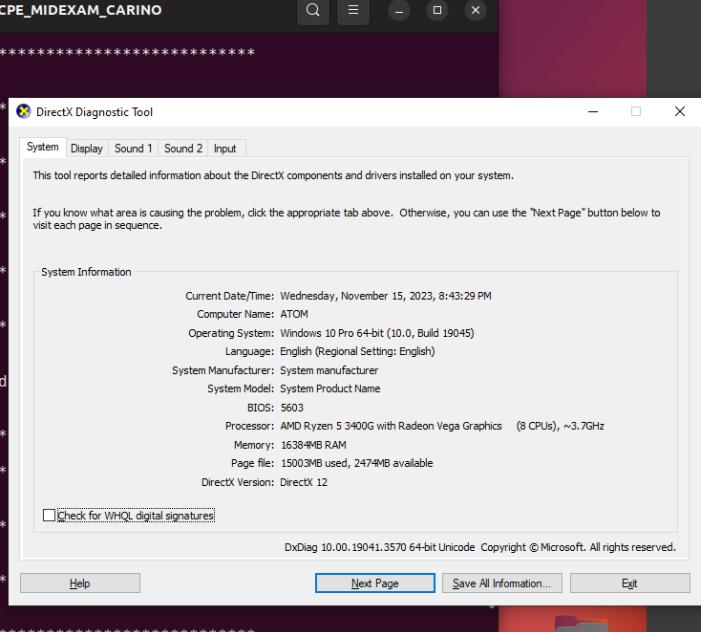
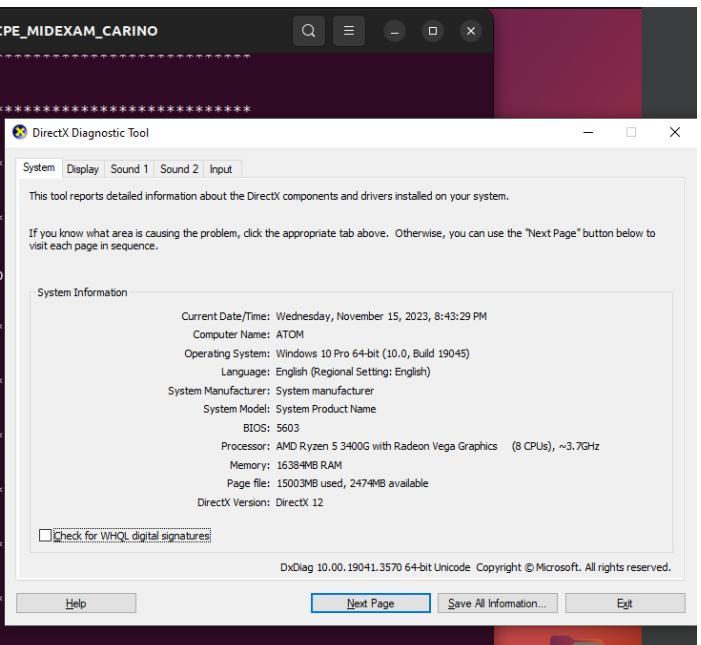
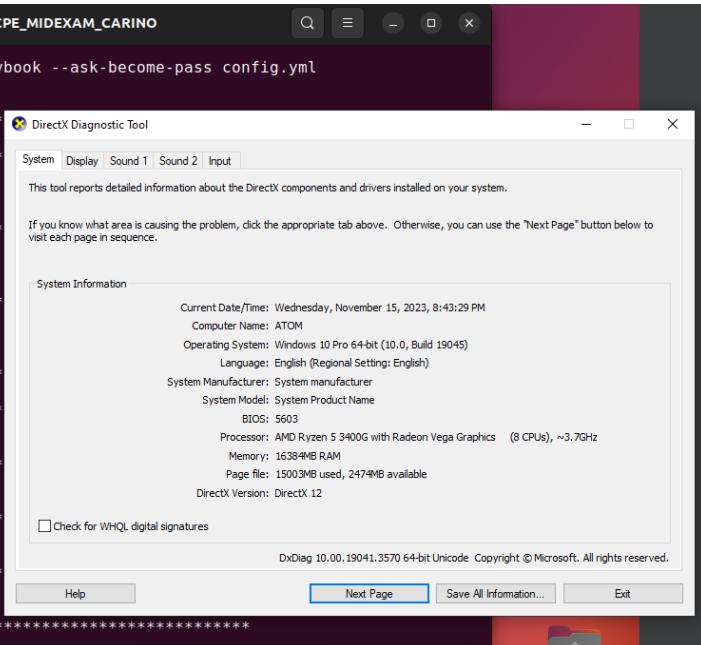
TASK [Ubuntu : Installing Influxdb] ****
ok: [192.168.56.119]

TASK [Ubuntu : Making sure that the Influxd is enabled] ****
ok: [192.168.56.119]

PLAY [CentOS] ****
TASK [Gathering Facts] ****
ok: [192.168.56.118]

TASK [CentOS : Install prerequisites] ****
ok: [192.168.56.118]

TASK [CentOS : Add Elasticsearch RPM repository] ****
changed: [192.168.56.118]
```



```

rustom@localmachine: ~/CPE_MIDEXAM_CARINO
ok: [192.168.56.118]

TASK [CentOS : Add Elasticsearch RPM repository] ****
changed: [192.168.56.118]
ok: [192.168.56.118]

TASK [CentOS : Add Elasticsearch YUM repository] ****
ok: [192.168.56.118]

TASK [CentOS : Install Elasticsearch] ****
ok: [192.168.56.118]

TASK [CentOS : Install Kibana] ****
ok: [192.168.56.118]

TASK [CentOS : Install Logstash for CentOS] ****
ok: [192.168.56.118]

TASK [CentOS : install php and httpd for CentOS] ****
ok: [192.168.56.118]

TASK [CentOS : install mariadb for CentOS] ****
ok: [192.168.56.118]

TASK [CentOS : Mariadb- Restarting/Enabling] ****
changed: [192.168.56.118]
ok: [192.168.56.118]

TASK [CentOS : Prometheus PATH directory] ****
ok: [192.168.56.118]

TASK [CentOS : Creating directory for Prometheus files]
ok: [192.168.56.118]

TASK [CentOS : Install Prometheus for CentOS] ****
ok: [192.168.56.118]

```

DirectX Diagnostic Tool

System Display Sound 1 Sound 2 Input

This tool reports detailed information about the DirectX components and drivers installed on your system.

If you know what area is causing the problem, click the appropriate tab above. Otherwise, you can use the "Next Page" button below to visit each page in sequence.

System Information

Current Date/Time: Wednesday, November 15, 2023, 8:43:29 PM
Computer Name: ATOM
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System Manufacturer: System manufacturer
System Model: System Product Name
BIOS: 5603
Processor: AMD Ryzen 5 3400G with Radeon Vega Graphics (8 CPUs), ~3.7GHz
Memory: 16384MB RAM
Page file: 15003MB used, 2474MB available
DirectX Version: DirectX 12

Check for WHQL digital signatures

Help Next Page Save All Information... Exit

```

rustom@localmachine: ~/CPE_MIDEXAM_CARINO
ok: [192.168.56.118]

TASK [CentOS : Creating directory for Prometheus files] ****
ok: [192.168.56.118]

TASK [CentOS : Install Prometheus for CentOS] ****
ok: [192.168.56.118]

TASK [CentOS : Check SELinux status] ****
changed: [192.168.56.118]
ok: [192.168.56.118]

TASK [CentOS : Disable SELinux if enabled] ****
skipping: [192.168.56.118]

TASK [CentOS : Modify SELinux configurations] ****
skipping: [192.168.56.118]

TASK [CentOS : Create Grafana YUM repository file] ****
ok: [192.168.56.118]

TASK [CentOS : Install Grafana] ****
ok: [192.168.56.118]

TASK [CentOS : Start and enable Grafana service] ****
ok: [192.168.56.118]

TASK [CentOS : Copying the Influxdb repository file] ***
ok: [192.168.56.118]

TASK [CentOS : Adding the executables to the PATH] ****
changed: [192.168.56.118]

TASK [CentOS : Install InfluxDB] ****
ok: [192.168.56.118]

```

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```

rustom@localmachine: ~/CPE_MIDEXAM_CARINO
ok: [192.168.56.118]

TASK [CentOS : Check SELinux status] ****
changed: [192.168.56.118]
ok: [192.168.56.118]

TASK [CentOS : Disable SELinux if enabled] ****
skipping: [192.168.56.118]

TASK [CentOS : Modify SELinux configurations] ****
skipping: [192.168.56.118]

TASK [CentOS : Create Grafana YUM repository file] ***
ok: [192.168.56.118]

TASK [CentOS : Install Grafana] ****
ok: [192.168.56.118]

TASK [CentOS : Start and enable Grafana service] ****
ok: [192.168.56.118]

TASK [CentOS : Copying the Influxdb repository file] ***
ok: [192.168.56.118]

TASK [CentOS : Adding the executables to the PATH] ****
changed: [192.168.56.118]

TASK [CentOS : Install InfluxDB] ****
ok: [192.168.56.118]

```

DirectX Diagnostic Tool

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PLAY RECAP

	ok=22	changed=4	unreachable=0	failed=0	skipped=3	rescued=0
192.168.56.118	: ok=22	changed=4	unreachable=0	failed=0	skipped=3	rescued=0
	ignored=0					
192.168.56.119	: ok=24	changed=3	unreachable=0	failed=0	skipped=1	rescued=0
	ignored=0					

- The output of the playbook is all the installation was successfully after many attempts of the debugging.

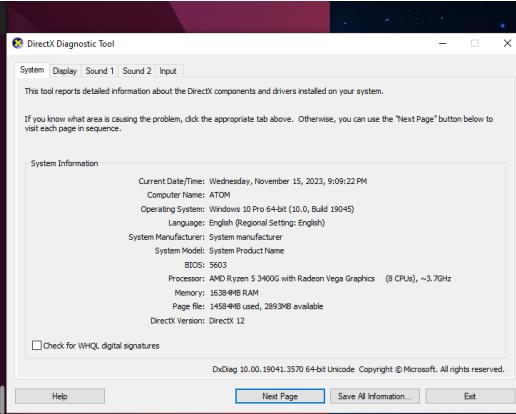
Proof in Ubuntu

```
ruston@server3: ~$ sudo systemctl grafana
[sudo] password for ruston:
Unknown command verb grafana.

ruston@server3: ~$ sudo systemctl status grafana
Unit grafana.service could not be found.

ruston@server3: ~$ sudo systemctl status grafana-server
● grafana-server.service - Grafana instance
   Loaded: loaded (/lib/systemd/system/grafana-server.service; enabled;)
   Active: active (running) since Wed 2023-11-15 18:11:18 CST; 2h 57min ago
     Docs: http://docs.grafana.org
 Main PID: 38982 (grafana)
   Tasks: 16 (limit: 2261)
     Memory: 72.8M
        CPU: 21.448s
      CGroup: /system.slice/grafana-server.service
              └─38982 /usr/share/grafana/bin/grafana server --config=/etc/g

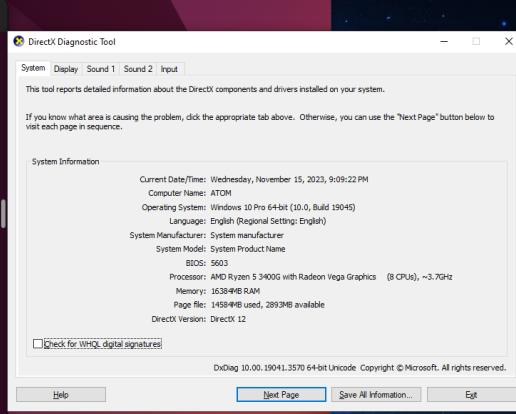
Nov 15 20:41:27 server3 grafana[38982]: logger:cleanup t=2023-11-15T20:41:27+01:00 lvl=info log="cleaning up log files"
Nov 15 20:41:27 server3 grafana[38982]: logger:grafana_update.checker t=2023-11-15T20:41:27+01:00 lvl=info log="Starting update checker"
Nov 15 20:41:27 server3 grafana[38982]: logger:plugins_update.checker t=2023-11-15T20:41:27+01:00 lvl=info log="Starting update checker"
Nov 15 20:43:10 server3 grafana[38982]: logger:infra_usagesetstat t=2023-11-15T20:43:10+01:00 lvl=info log="Starting usage set statistics collection"
Nov 15 20:51:27 server3 grafana[38982]: logger:cleanup t=2023-11-15T20:51:27+01:00 lvl=info log="cleaning up log files"
Nov 15 20:51:27 server3 grafana[38982]: logger:grafana_update.checker t=2023-11-15T20:51:27+01:00 lvl=info log="Starting update checker"
Nov 15 20:51:27 server3 grafana[38982]: logger:plugins_update.checker t=2023-11-15T20:51:27+01:00 lvl=info log="Starting update checker"
Nov 15 21:01:27 server3 grafana[38982]: logger:cleanup t=2023-11-15T21:01:27+01:00 lvl=info log="cleaning up log files"
Nov 15 21:01:27 server3 grafana[38982]: logger:grafana_update.checker t=2023-11-15T21:01:27+01:00 lvl=info log="Starting update checker"
Nov 15 21:01:27 server3 grafana[38982]: logger:plugins_update.checker t=2023-11-15T21:01:27+01:00 lvl=info log="Starting update checker"
[Lines 1-21/21 (END)]
```



- Grafana was successfully installed and enabled in Ubuntu.

```
rustom@server3: ~$ sudo systemctl status nagios4
● nagios4.service - nagios4
   Loaded: loaded (/lib/systemd/system/nagios4.service; enabled; vendor-
     Active: inactive (dead)
       Docs: man:nagios4
lines 1-4/4 (END)
[8]: Stopped          sudo systemctl status nagios4
rustom@server3: ~$ sudo systemctl restart nagios4
rustom@server3: ~$ sudo systemctl status nagios4
● nagios4.service - nagios4
   Loaded: loaded (/lib/systemd/system/nagios4.service; enabled; vendor-
     Active: active (running) since Wed 2023-11-15 21:12:18 CST; 2s ago
       Docs: man:nagios4
      Process: 119111 ExecStartPre=sh -c nagiospipe=$(sed -n "s/^command \[.*\]$/\1/g" /etc/nagios4/nagios.cfg | sed -n "1,${NAGIOS4_MAX_THREADS}p")
 Main PID: 119113 (nagios4)
    Tasks: 6 (limit: 2261)
      Memory: 4.0M
        CPU: 44ms
       CGroup: /system.slice/nagios4.service
               ├─119113 /usr/sbin/nagios4 - /etc/nagios4/nagios.cfg
               ├─119114 /usr/sbin/nagios4 --worker /var/lib/nagios4/rw/nagios4.sock
               ├─119115 /usr/sbin/nagios4 --worker /var/lib/nagios4/rw/nagios4.sock
               ├─119116 /usr/sbin/nagios4 --worker /var/lib/nagios4/rw/nagios4.sock
               ├─119117 /usr/sbin/nagios4 --worker /var/lib/nagios4/rw/nagios4.sock
               └─119119 /usr/sbin/nagios4 - /etc/nagios4/nagios.cfg

Nov 15 21:12:18 server3 nagios4[119113]: wproc: Registry request: name=Co...
```

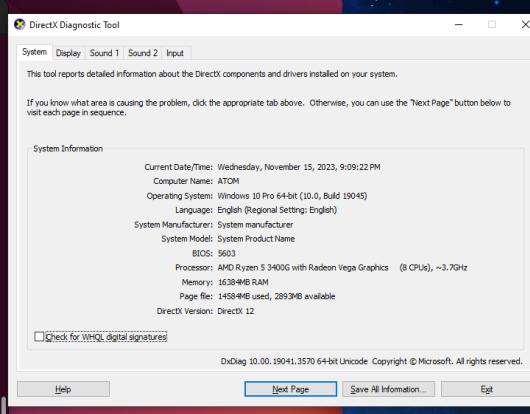


- Nagios was successfully installed and enabled in Ubuntu.

```
rustom@server3: ~
```

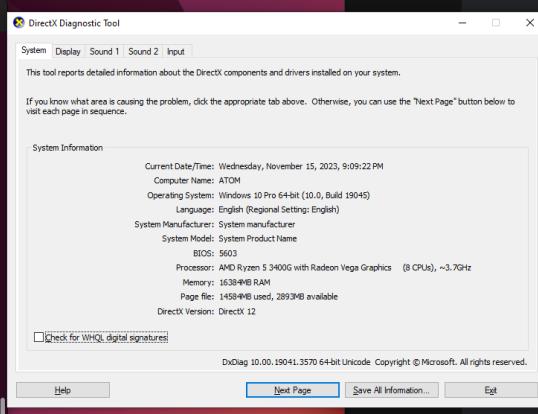
Building dependency tree... Done
Reading state information... Done
elasticsearch is already the newest version (7.17.15).
The following packages were automatically installed and are no longer required:
linux-headers-6.2.0-34-generic linux-hwe-6.2-headers-6.2.0-34
linux-image-6.2.0-34-generic linux-modules-6.2.0-34-generic
linux-modules-extra-6.2.0-34-generic
Use 'sudo apt autoremove' to remove them.
0 to upgrade, 0 to newly install, 0 to remove and 6 not to upgrade.
rustom@server3: ~\$ sudo systemctl status elasticsearch
● elasticsearch.service - Elasticsearch
 Loaded: loaded (/lib/systemd/system/elasticsearch.service; enabled;...
 Active: active (running) since Fri 2023-10-27 21:34:52 CST; 2 weeks...
 Docs: https://www.elastic.co
 Main PID: 15784 (java)
 Tasks: 65 (limit: 2261)
 Memory: 504.3M
 CPU: 10min 6.534s
 CGroup: /system.slice/elasticsearch.service
 └─15784 /usr/share/elasticsearch/jdk/bin/java -Xshare:auto
 ├─15965 /usr/share/elasticsearch/modules/x-pack-ml/platform/...

Oct 27 21:34:03 server3 systemd[1]: Starting Elasticsearch...
Oct 27 21:34:13 server3 systemd-entrypoint[15784]: Oct 27, 2023 9:34:13 P...
Oct 27 21:34:13 server3 systemd-entrypoint[15784]: WARNING: COMPAT locale...
Oct 27 21:34:52 server3 systemd[1]: Started Elasticsearch.
[lines 1-16/16 (END)]



- Elasticsearch was successfully installed and enabled in Ubuntu.

```
rustom@server3:~          Docs: https://www.elastic.co  
Main PID: 16099 (code=exited, status=0/SUCCESS)  
CPU: 2min 54.604s  
  
Oct 27 21:35:05 server3 systemd[1]: Started Kibana.  
Oct 27 21:35:08 server3 kibana[16099]: Kibana is currently running with 1  
Nov 15 17:49:33 server3 systemd[1]: Stopping Kibana...  
Nov 15 17:49:35 server3 systemd[1]: kibana.service: Deactivated successfully  
Nov 15 17:49:35 server3 systemd[1]: Stopped Kibana.  
Nov 15 17:49:35 server3 systemd[1]: kibana.service: Consumed 2min 54.604s  
Lines 1-13 (END)  
14]+  Stopped                  sudo systemctl status kibana  
ustomd@server3:~$ sudo systemctl start kibana  
ustomd@server3:~$ sudo systemctl status kibana  
● kibana.service - Kibana  
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor  
   Active: active (running) since Wed 2023-11-15 21:25:17 CST; 1s ago  
     Docs: https://www.elastic.co  
Main PID: 120820 (node)  
   Tasks: 7 (limit: 2261)  
   Memory: 97.4M  
     CPU: 1.271s  
    CGroup: /system.slice/kibana.service  
           └─120820 /usr/share/kibana/bin/.../node/bin/node /usr/share/kibana/bin/kibana  
  
Nov 15 21:25:17 server3 systemd[1]: Started Kibana.  
Nov 15 21:25:17 server3 kibana[120820]: Kibana is currently running with 1  
Lines 1-13 (END)
```



- Kibana was successfully installed and enabled in Ubuntu.

rustum@server3: ~

```

└─120820 /usr/share/kibana/bin/..node/bin/node /usr/share/kibana/bin/kibana
Nov 15 21:25:17 server3 systemd[1]: Started Kibana.
Nov 15 21:25:17 server3 kibana[120820]: Kibana is currently running with >
[lines 1-13/13 (END)]
[15]+ Stopped                  sudo systemctl status kibana
rustum@server3: $ sudo systemctl status logstash
● logstash.service - logstash
   Loaded: loaded (/etc/systemd/system/logstash.service; enabled; vendor-
   Active: active (running) since Wed 2023-11-15 18:07:51 CST; 3h 18min
   Main PID: 36608 (java)
      Tasks: 22 (limit: 2261)
     Memory: 34.3M
        CPU: 1min 28.481s
       CGroup: /system.slice/logstash.service
               └─36608 /usr/share/logstash/jdk/bin/java -Xms1g -Xmx1g -XX:+S
Nov 15 18:07:51 server3 systemd[1]: Started logstash.
Nov 15 18:07:51 server3 logstash[36608]: Using bundled JDK: /usr/share/lo
Nov 15 18:07:51 server3 logstash[36608]: OpenJDK 64-Bit Server VM warning:
Nov 15 18:08:22 server3 logstash[36608]: Sending Logstash logs to /var/lo
Nov 15 18:08:22 server3 logstash[36608]: [2023-11-15T18:08:22, 589] [INFO] l
Nov 15 18:08:22 server3 logstash[36608]: [2023-11-15T18:08:22, 605] [INFO] l
Nov 15 18:08:22 server3 logstash[36608]: [2023-11-15T18:08:22, 608] [INFO] l
Nov 15 18:08:22 server3 logstash[36608]: [2023-11-15T18:08:22, 608] [INFO] l
Nov 15 18:08:25 server3 logstash[36608]: [2023-11-15T18:08:25, 101] [INFO] l
Nov 15 18:08:25 server3 logstash[36608]: [2023-11-15T18:08:25, 112] [ERROR]
Nov 15 18:08:25 server3 logstash[36608]: [2023-11-15T18:08:25, 203] [INFO] l
[lines 1-20/20 (END)]

```

System Information

This tool reports detailed information about the DirectX components and drivers installed on your system.

If you know what area is causing the problem, click the appropriate tab above. Otherwise, you can use the "Next Page" button below to visit each page in sequence.

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Help Next Page Save All Information... Exit

- Logstash was successfully installed and enabled in Ubuntu.

rustum@server3: ~

```

Nov 15 18:08:25 server3 logstash[36608]: [2023-11-15T18:08:25, 112] [ERROR]
Nov 15 18:08:25 server3 logstash[36608]: [2023-11-15T18:08:25, 203] [INFO] l
[lines 1-20/20 (END)]
[16]+ Stopped                  sudo systemctl status logstash
rustum@server3: $ sudo systemctl status prometheus
● prometheus.service - Monitoring system and time series database
   Loaded: loaded (/lib/systemd/system/prometheus.service; enabled; vendor-
   Active: active (running) since Wed 2023-11-15 20:38:15 CST; 48min ago
     Docs: https://prometheus.io/docs/introduction/overview/
           man:prometheus(1)
   Main PID: 116951 (prometheus)
      Tasks: 8 (limit: 2261)
     Memory: 34.4M
        CPU: 6.905s
       CGroup: /system.slice/prometheus.service
               └─116951 /usr/bin/prometheus
Nov 15 20:38:15 server3 prometheus[116951]: ts=2023-11-15T12:38:15.069Z c>
Nov 15 20:38:15 server3 prometheus[116951]: ts=2023-11-15T12:38:15.973Z c>
Nov 15 20:38:15 server3 prometheus[116951]: ts=2023-11-15T12:38:15.973Z c>
Nov 15 20:38:15 server3 prometheus[116951]: ts=2023-11-15T12:38:15.973Z c>
Nov 15 20:38:15 server3 prometheus[116951]: ts=2023-11-15T12:38:15.979Z c>
Nov 15 20:38:15 server3 prometheus[116951]: ts=2023-11-15T12:38:15.979Z c>
Nov 15 21:00:02 server3 prometheus[116951]: ts=2023-11-15T13:00:02.378Z c>
Nov 15 21:00:02 server3 prometheus[116951]: ts=2023-11-15T13:00:02.396Z c>
Nov 15 21:00:02 server3 prometheus[116951]: ts=2023-11-15T13:00:02.421Z c>
Nov 15 21:00:02 server3 prometheus[116951]: ts=2023-11-15T13:00:02.587Z c>
[lines 1-22/22 (END)]

```

System Information

This tool reports detailed information about the DirectX components and drivers installed on your system.

If you know what area is causing the problem, click the appropriate tab above. Otherwise, you can use the "Next Page" button below to visit each page in sequence.

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Help Next Page Save All Information... Exit

- Prometheus was successfully installed and enabled in Ubuntu.

rustum@server3: ~

```

Nov 15 21:11:44 server3 influxdb[39264]: ts=2023-11-15T13:11:44.005631Z lv
Nov 15 21:11:44 server3 influxdb[39264]: ts=2023-11-15T13:11:45.005986Z lv
[lines 1-21/21 (END)]
[18]+ Stopped                  sudo systemctl status influxdb
rustum@server3: $ sudo systemctl status influxdb
● influxdb.service - InfluxDB is an open-source, distributed, time series
   Loaded: loaded (/lib/systemd/system/influxdb.service; enabled; vendor-
   Active: active (running) since Wed 2023-11-15 18:11:44 CST; 3h 22min
     Docs: man:influxd(1)
   Main PID: 39264 (influx)
      Tasks: 9 (limit: 2261)
     Memory: 14.3M
        CPU: 8.310s
       CGroup: /system.slice/influxdb.service
               └─39264 /usr/bin/influxdb -config /etc/influxdb/influxdb.conf
Nov 15 19:11:44 server3 influxdb[39264]: ts=2023-11-15T11:44.952091Z lv
Nov 15 19:11:44 server3 influxdb[39264]: ts=2023-11-15T11:44.959205Z lv
Nov 15 19:41:44 server3 influxdb[39264]: ts=2023-11-15T11:44.961425Z lv
Nov 15 19:41:44 server3 influxdb[39264]: ts=2023-11-15T11:44.964937Z lv
Nov 15 20:11:44 server3 influxdb[39264]: ts=2023-11-15T12:11:44.975925Z lv
Nov 15 20:11:44 server3 influxdb[39264]: ts=2023-11-15T12:11:44.979764Z lv
Nov 15 20:41:44 server3 influxdb[39264]: ts=2023-11-15T12:41:44.987272Z lv
Nov 15 20:41:44 server3 influxdb[39264]: ts=2023-11-15T12:41:44.982014Z lv
Nov 15 21:11:45 server3 influxdb[39264]: ts=2023-11-15T13:11:45.003631Z lv
Nov 15 21:11:45 server3 influxdb[39264]: ts=2023-11-15T13:11:45.005986Z lv
[lines 1-21/21 (END)]

```

System Information

This tool reports detailed information about the DirectX components and drivers installed on your system.

If you know what area is causing the problem, click the appropriate tab above. Otherwise, you can use the "Next Page" button below to visit each page in sequence.

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Help Next Page Save All Information... Exit

- Influxdb was successfully installed and enabled in Ubuntu.

rustum@server3: ~

```

rustum@server3: $ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor-
   Active: active (running) since Fri 2023-10-27 20:29:30 CST; 2 weeks
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 826 (apache2)
      Tasks: 7 (limit: 2261)
     Memory: 6.6M
        CPU: 1.874s
       CGroup: /system.slice/apache2.service
               └─826 /usr/sbin/apache2 -k start
                   ├─22814 /usr/sbin/apache2 -k start
                   ├─22815 /usr/sbin/apache2 -k start
                   ├─22816 /usr/sbin/apache2 -k start
                   ├─22817 /usr/sbin/apache2 -k start
                   ├─22818 /usr/sbin/apache2 -k start
                   ├─120256 /usr/sbin/apache2 -k start
Oct 27 20:29:30 server3 systemd[1]: Starting The Apache HTTP Server...
Oct 27 20:29:30 server3 apachectl[784]: AH00558: apache2: Could not rela...
Oct 27 20:29:30 server3 systemd[1]: Started The Apache HTTP Server.
Oct 28 12:26:09 server3 systemd[1]: Reloading The Apache HTTP Server...
Oct 28 12:26:09 server3 apachectl[16490]: AH00558: apache2: Could not rela...
Oct 28 12:26:09 server3 systemd[1]: Reloaded The Apache HTTP Server.
Nov 15 16:59:08 server3 systemd[1]: Reloading The Apache HTTP Server...
Nov 15 16:59:08 server3 apachectl[22801]: AH00558: apache2: Could not rela...
Nov 15 16:59:08 server3 systemd[1]: Reloaded The Apache HTTP Server.
[lines 1-26/26 (END)]

```

System Information

This tool reports detailed information about the DirectX components and drivers installed on your system.

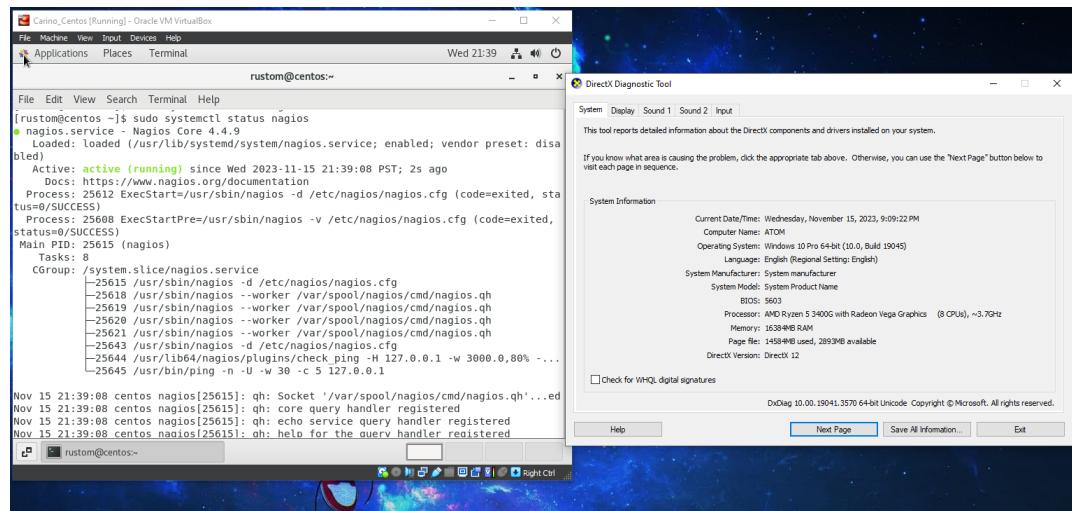
If you know what area is causing the problem, click the appropriate tab above. Otherwise, you can use the "Next Page" button below to visit each page in sequence.

DxDiag 10.00.19041.3570 64-bit Unicode Copyright © Microsoft. All rights reserved.

Help Next Page Save All Information... Exit

- Apache2 was successfully installed and enabled in Ubuntu.

Proof in CentOS



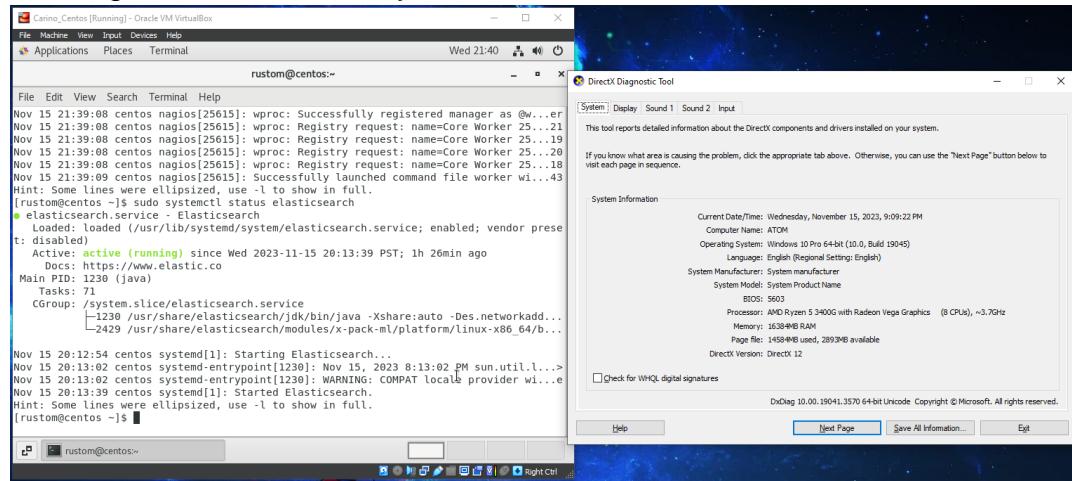
The screenshot shows a CentOS desktop environment. On the left, a terminal window titled 'CentOS [Running] - Oracle VM VirtualBox' displays the command 'sudo systemctl status nagios'. The output shows the service is active and running. On the right, a 'DirectX Diagnostic Tool' window provides system information, including the processor as an AMD Ryzen 5 3400G with Radeon Vega Graphics, 16.384MB RAM, and a Direct3D version of 12.

```
rustom@centos:~$ sudo systemctl status nagios
● nagios.service - Nagios Core 4.4.9
   Loaded: loaded (/usr/lib/systemd/system/nagios.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2023-11-15 21:39:08 PST; 2s ago
       Docs: https://www.nagios.org/documentation
   Process: 25608 ExecStart=/usr/sbin/nagios -d /etc/nagios/nagios.cfg (code=exited, status=0/SUCCESS)
  Main PID: 25615 (nagios)
    Tasks: 1
   CGroup: /system.slice/nagios.service
           └─25615 /usr/sbin/nagios -d /etc/nagios/nagios.cfg
              ├─25618 /usr/sbin/nagios --worker /var/spool/nagios/cmd/nagios.qh
              ├─25619 /usr/sbin/nagios --worker /var/spool/nagios/cmd/nagios.qh
              ├─25620 /usr/sbin/nagios --worker /var/spool/nagios/cmd/nagios.qh
              ├─25621 /usr/sbin/nagios --worker /var/spool/nagios/cmd/nagios.qh
              ├─25623 /usr/sbin/nagios --worker /etc/nagios/nagios.cfg
              ├─25644 /usr/lib64/nagios/plugins/check_ping -H 127.0.0.1 -w 3000.0,80% -...
              └─25645 /usr/bin/ping -n -U -c 5 127.0.0.1

Nov 15 21:39:08 centos nagios[25615]: oh: Socket: /var/spool/nagios/cmd/nagios.qh...ed
Nov 15 21:39:08 centos nagios[25615]: oh: core query handler registered
Nov 15 21:39:08 centos nagios[25615]: oh: echo service query handler registered
Nov 15 21:39:08 centos nagios[25615]: oh: help for the query handler registered
rustom@centos:~$
```

DirectX Diagnostic Tool
System Information
System
Current Date/Time: Wednesday, November 15, 2023, 9:09:22 PM
Computer Name: ATOM
Operating System: Windows 10 Pro 64-bit (10.0, Build 19045)
Language: English (Regional Setting: English)
System Manufacturer: System manufacturer
System Model: System Product Name
BIOS: 5603
Processor: AMD Ryzen 5 3400G with Radeon Vega Graphics (8 CPUs), ~3.7GHz
Memory: 16384MB RAM
Page File: 14594MB used, 2893MB available
Direct3D Version: Direct3D 12
Check for WHQL digital signatures
DxDiag 10.00.19041.3570 64-bit Unicode Copyright © Microsoft. All rights reserved.
Help Next Page Save All Information... Exit

- Nagios was successfully installed and enabled in CentOS.



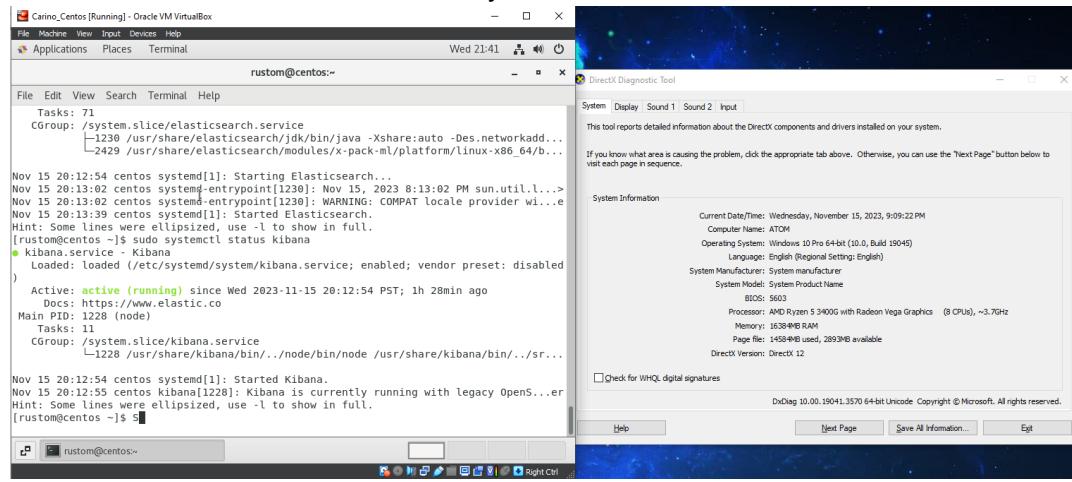
The screenshot shows a CentOS desktop environment. On the left, a terminal window titled 'CentOS [Running] - Oracle VM VirtualBox' displays the command 'sudo systemctl status elasticsearch'. The output shows the service is active and running. On the right, a 'DirectX Diagnostic Tool' window provides system information, identical to the previous one.

```
rustom@centos:~$ sudo systemctl status elasticsearch
● elasticsearch.service - Elasticsearch
   Loaded: loaded (/usr/lib/systemd/system/elasticsearch.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2023-11-15 20:13:39 PST; 1h 26min ago
       Docs: https://www.elastic.co
   Main PID: 1230 (java)
     Tasks: 71
    CGroup: /system.slice/elasticsearch.service
            └─1230 /usr/share/elasticsearch/jdk/bin/java -Xshare:auto -Des.networkadd...
               ├─1239 /usr/share/elasticsearch/modules/x-pack-ml/platform/linux-x86_64/b...
               └─1249 /usr/share/elasticsearch/modules/x-pack-ml/platform/linux-x86_64/b...

Nov 15 20:13:54 centos systemd[1]: Starting Elasticsearch...
Nov 15 20:13:55 centos systemd-entrypoint[1230]: Nov 15, 2023 8:13:55 PM sun.util...>
Nov 15 20:13:55 centos systemd-entrypoint[1230]: WARNING: COMPAT locale provider wi...
Nov 15 20:13:55 centos systemd[1]: Started Elasticsearch.
Hint: Some lines were ellipsized, use '-l' to show in full.
rustom@centos:~$
```

DirectX Diagnostic Tool
System Information
System
Current Date/Time: Wednesday, November 15, 2023, 9:09:22 PM
Computer Name: ATOM
Operating System: Windows 10 Pro 64-bit (10.0, Build 19045)
Language: English (Regional Setting: English)
System Manufacturer: System manufacturer
System Model: System Product Name
BIOS: 5603
Processor: AMD Ryzen 5 3400G with Radeon Vega Graphics (8 CPUs), ~3.7GHz
Memory: 16384MB RAM
Page File: 14594MB used, 2893MB available
Direct3D Version: Direct3D 12
Check for WHQL digital signatures
DxDiag 10.00.19041.3570 64-bit Unicode Copyright © Microsoft. All rights reserved.
Help Next Page Save All Information... Exit

- Elasticsearch was successfully installed and enabled in CentOS.



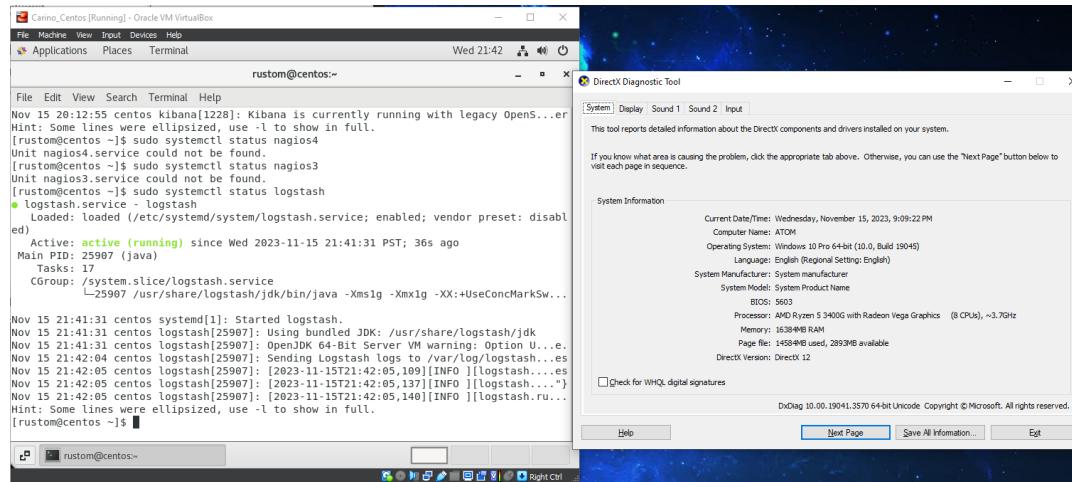
The screenshot shows a CentOS desktop environment. On the left, a terminal window titled 'CentOS [Running] - Oracle VM VirtualBox' displays the command 'sudo systemctl status kibana'. The output shows the service is active and running. On the right, a 'DirectX Diagnostic Tool' window provides system information, identical to the previous ones.

```
rustom@centos:~$ sudo systemctl status kibana
● kibana.service - Kibana
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2023-11-15 20:12:54 PST; 1h 28min ago
       Docs: https://www.elastic.co
   Main PID: 1228 (node)
     Tasks: 11
    CGroup: /system.slice/kibana.service
            └─1228 /usr/share/kibana/bin/../node/bin/node /usr/share/kibana/bin/.../sr...

Nov 15 20:12:54 centos systemd[1]: Started Kibana.
Nov 15 20:12:55 centos kibana[1228]: Kibana is currently running with legacy OpenS...er
Hint: Some lines were ellipsized, use '-l' to show in full.
rustom@centos:~$
```

DirectX Diagnostic Tool
System Information
System
Current Date/Time: Wednesday, November 15, 2023, 9:09:22 PM
Computer Name: ATOM
Operating System: Windows 10 Pro 64-bit (10.0, Build 19045)
Language: English (Regional Setting: English)
System Manufacturer: System manufacturer
System Model: System Product Name
BIOS: 5603
Processor: AMD Ryzen 5 3400G with Radeon Vega Graphics (8 CPUs), ~3.7GHz
Memory: 16384MB RAM
Page File: 14594MB used, 2893MB available
Direct3D Version: Direct3D 12
Check for WHQL digital signatures
DxDiag 10.00.19041.3570 64-bit Unicode Copyright © Microsoft. All rights reserved.
Help Next Page Save All Information... Exit

- Kibana was successfully installed and enabled in CentOS.



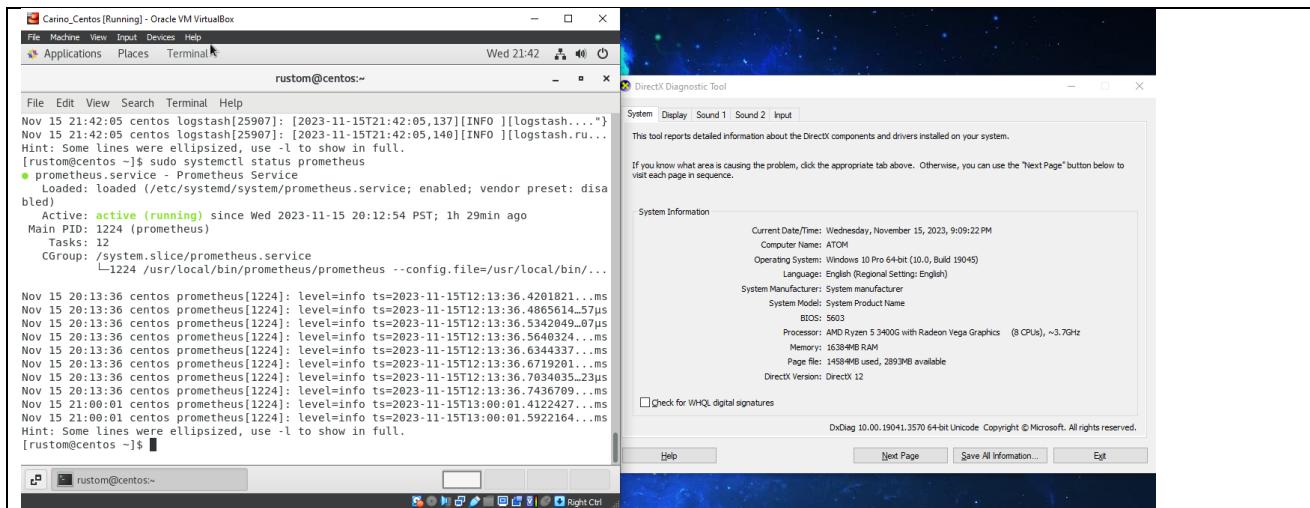
The screenshot shows a CentOS desktop environment. On the left, a terminal window titled 'CentOS [Running] - Oracle VM VirtualBox' displays the command 'sudo systemctl status logstash'. The output shows the service is active and running. On the right, a 'DirectX Diagnostic Tool' window provides system information, identical to the previous ones.

```
rustom@centos:~$ sudo systemctl status logstash
● logstash.service - logstash
   Loaded: loaded (/etc/systemd/system/logstash.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2023-11-15 21:41:31 PST; 36s ago
   Main PID: 25907 (java)
     Tasks: 17
    CGroup: /system.slice/logstash.service
            └─25907 /usr/share/logstash/jdk/bin/java -Xms1g -Xmx1g -XX:+UseConcMarkSw...

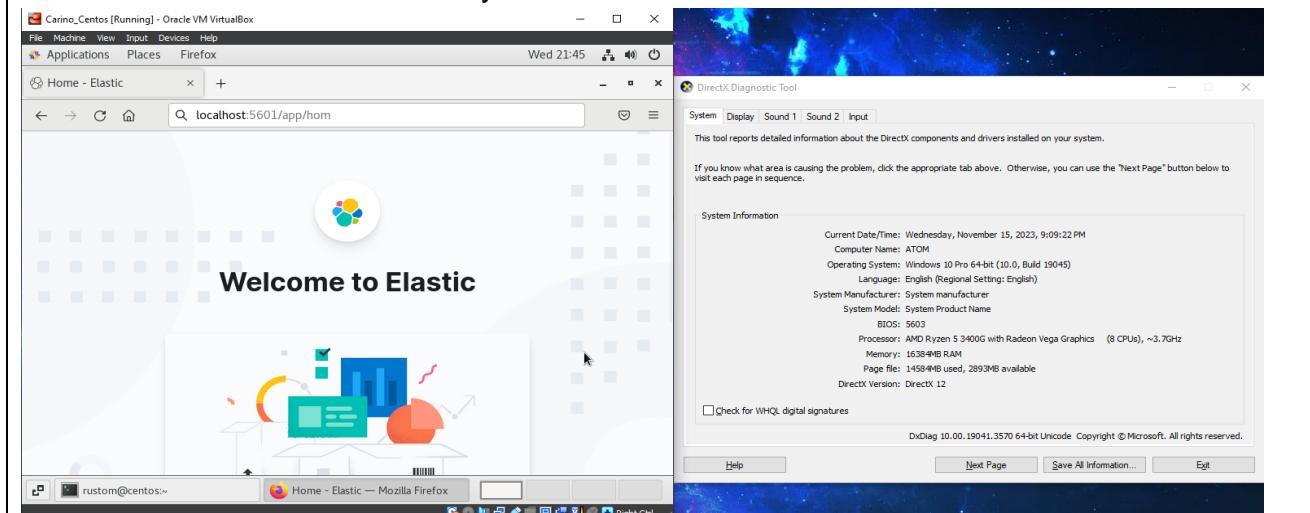
Nov 15 21:41:31 centos systemd[1]: Started logstash.
Nov 15 21:41:33 centos logstash[25907]: Using bundled JDK: /usr/share/logstash/jdk
Nov 15 21:41:33 centos logstash[25907]: OpenJDK 64-Bit Server VM warning: Option U...e.
Nov 15 21:42:05 centos logstash[25907]: Using Logstash log to /var/log/logstash...es
Nov 15 21:42:05 centos logstash[25907]: [2023-11-15T21:42:05,109][INFO ][logstash...es
Nov 15 21:42:05 centos logstash[25907]: [2023-11-15T21:42:05,137][INFO ][logstash...]
Nov 15 21:42:05 centos logstash[25907]: [2023-11-15T21:42:05,140][INFO ][logstash.ru...
Hint: Some lines were ellipsized, use '-l' to show in full.
rustom@centos:~$
```

DirectX Diagnostic Tool
System Information
System
Current Date/Time: Wednesday, November 15, 2023, 9:09:22 PM
Computer Name: ATOM
Operating System: Windows 10 Pro 64-bit (10.0, Build 19045)
Language: English (Regional Setting: English)
System Manufacturer: System manufacturer
System Model: System Product Name
BIOS: 5603
Processor: AMD Ryzen 5 3400G with Radeon Vega Graphics (8 CPUs), ~3.7GHz
Memory: 16384MB RAM
Page File: 14594MB used, 2893MB available
Direct3D Version: Direct3D 12
Check for WHQL digital signatures
DxDiag 10.00.19041.3570 64-bit Unicode Copyright © Microsoft. All rights reserved.
Help Next Page Save All Information... Exit

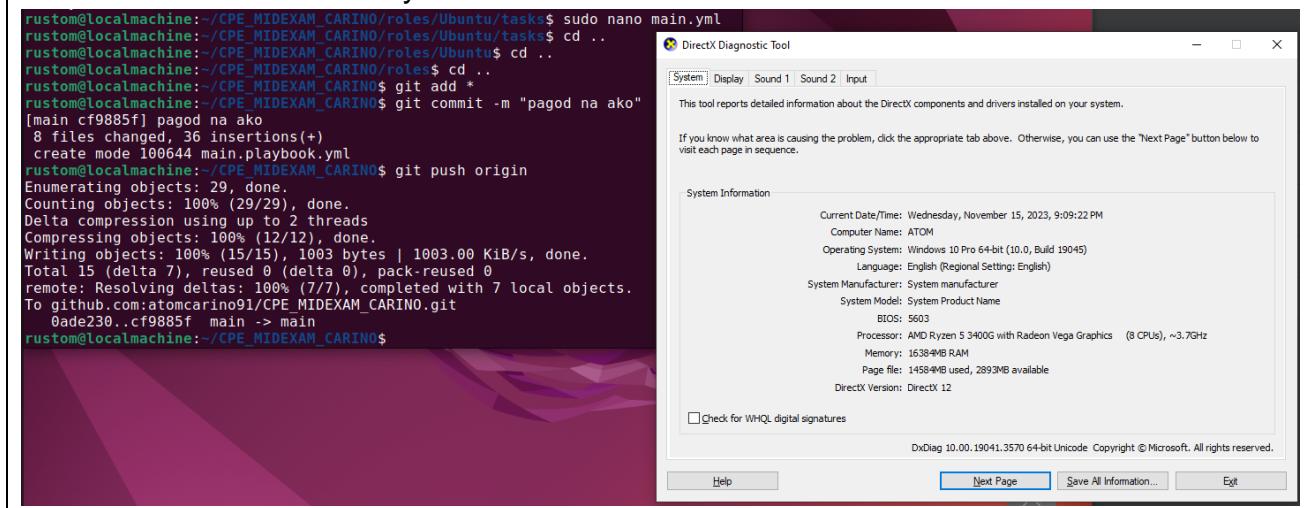
- Logstash was successfully installed and enabled in CentOS.



- Prometheus was successfully installed and enabled in CentOS.



- Elastic was successfully installed and enabled in CentOS.



- Committing the repository

GitHub link:

https://github.com/atomcarino91/CPE_MIDEXAM_CARINO/tree/main

Conclusions: (link your conclusion from the objective)

In this Skill exam I will be able to design a workflow that installs, configure and manage enterprise availability, performance and log monitoring tools using Ansible as an infrastructure as Code tool. For constructing the playbook installation, I simply re-use the previous hands on activity such as Nagios, elastic search, Kibana, Logstash Prometheus and lamp stack. At first is I thought that my playbook will execute without any error but after I run the playbook there is an error almost each task but I debugged it 1 by 1. I created a playbook using roles to accomplish tasks. Despite encountering errors and time-consuming processes, including installing software and fixing errors, they successfully completed the tasks.