



Desafío Opcional No. 1

Bootcamp DevOps 63703

Presentado por:
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2023

PARTE I : Instalación de Apache, PHP, Python, MySQL y WordPress con Ansible.



Illustrations by [Pixeltrue](#) on
[icons8](#)



1. Mediante una máquina con S.O. Ubuntu se instaló en una máquina virtual con S.O. Debian lo correspondiente a Apache, PHP, Python, MySQL y WordPress a través de Ansible. Para lo cual se agregó el usuario de conexión a la VM al archivo sudoers, y luego se agregó al grupo sudo para que el sistema no generara el error de permisos y permitiera la ejecución.

```
dev@dev-ThinkPad-T530: ~/Desktop/Bootcamp DevOps/Clases/Clase12-13
dev@dev-ThinkPad-T530: ~/Desktop/Bootcamp DevOps/Clases/Clase12-13
dev@dev-ThinkPad-T530:~/Desktop/Bootcamp DevOps/Clases/Clase12-13$ ansible-playbook -i inventory.ini main.yml -u dev -K
BECOME password:
```

```
TASK [Descargar wordpress] *****
changed: [192.168.0.13]

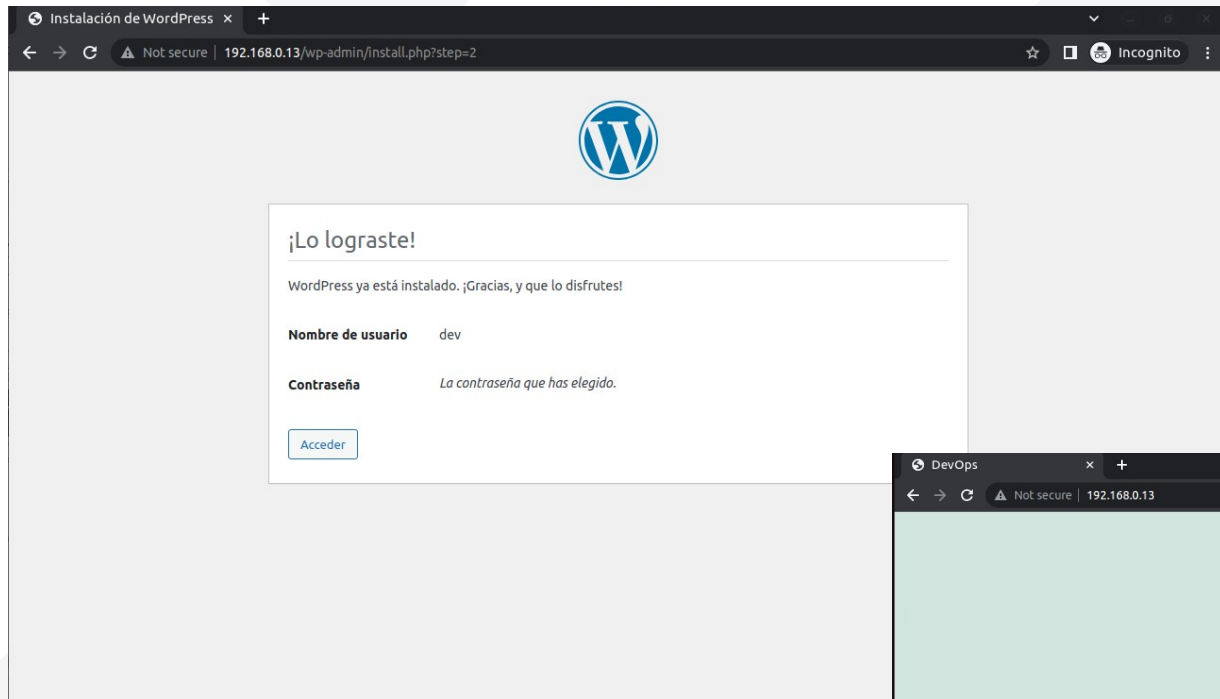
TASK [copy wordpress file to site directory] *****
ok: [192.168.0.13]

TASK [crear archivo de configuracion wordpress] *****
ok: [192.168.0.13]

TASK [remove wordpress file from tmp] *****
changed: [192.168.0.13]

PLAY RECAP *****
192.168.0.13      : ok=22  changed=6    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

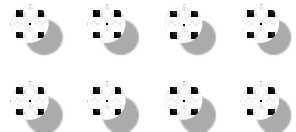
dev@dev-ThinkPad-T530:~/Desktop/Bootcamp DevOps/Clases/Clase12-13$
```



PARTE II : Instalación de Prometheus, Prometheus Node Exporter y Grafana.



Illustrations by [Pixeltrue](#) on
[icons8](#)



1. Luego se procedió a ejecutar el playbook contenido en el repositorio:

https://github.com/BambooThink/BootcampDevOps2023/tree/main/Solucion_Desafio_Opcional_1

```
dev@dev-ThinkPad-T530: ~/Desktop/Bootcamp DevOps/Desa... x dev@10: ~ x v
dev@dev-ThinkPad-T530:~/Desktop/Bootcamp DevOps/Desafios/Solución Desafios/Solucion_Desafio_Opcional_1$ ansible-pl
aybook -i inventory.ini main.yml -u dev -K
BECOME password:
```

```
dev@dev-ThinkPad-T530: ~/Desktop/Bootcamp DevOps/Desa... x dev@10: ~ x v

TASK [node exporter is started] *****
ok: [192.168.0.13]

TASK [The node exporter status is validated] *****
changed: [192.168.0.13]

TASK [node exporte is enabled] *****
ok: [192.168.0.13]

TASK [Agregar configuración de node_exporter al archivo /etc/prometheus/prometheus.yml] *****
changed: [192.168.0.13]

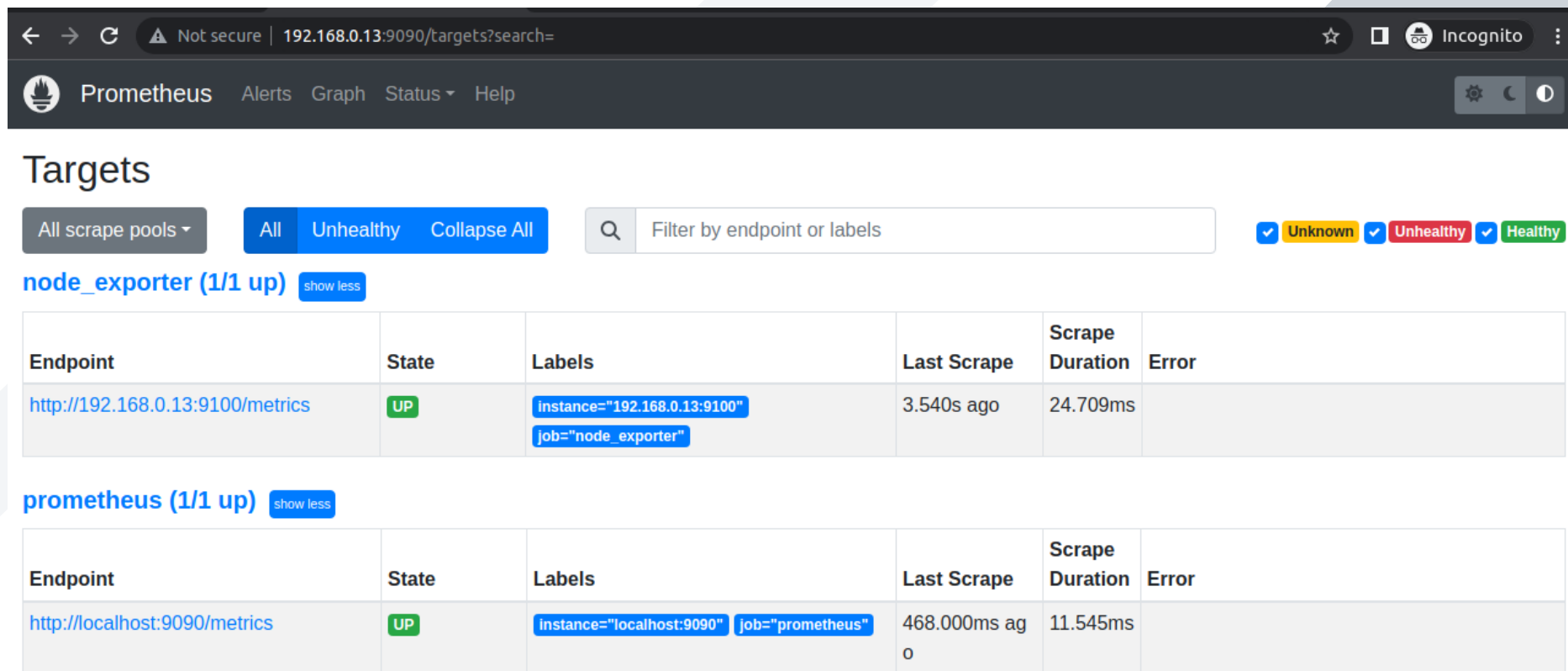
TASK [The prometheus is restarted] *****
changed: [192.168.0.13]

TASK [The prometheus status is validated] *****
changed: [192.168.0.13]

PLAY RECAP *****
192.168.0.13      : ok=41  changed=13  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

dev@dev-ThinkPad-T530:~/Desktop/Bootcamp DevOps/Desafios/Solución Desafios/Solucion_Desafio_Opcional_1$
```

2. A continuación se valida el funcionamiento de Prometheus y Prometheus Node Exporter.



The screenshot displays the Prometheus web interface in an Incognito browser window. The address bar shows the URL `192.168.0.13:9090/targets?search=`. The Prometheus navigation bar includes links for Alerts, Graph, Status, and Help. The main heading is "Targets".

Below the heading, there are filters: "All scrape pools" (dropdown), "All", "Unhealthy", and "Collapse All" (buttons), and a search bar labeled "Filter by endpoint or labels". On the right, there are status filters: "Unknown", "Unhealthy", and "Healthy", each with a checkmark.

The first target group is **node_exporter (1/1 up)** with a "show less" button. It contains one target:

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://192.168.0.13:9100/metrics	UP	<code>instance="192.168.0.13:9100"</code> <code>job="node_exporter"</code>	3.540s ago	24.709ms	

The second target group is **prometheus (1/1 up)** with a "show less" button. It contains one target:

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://localhost:9090/metrics	UP	<code>instance="localhost:9090"</code> <code>job="prometheus"</code>	468.000ms ago	11.545ms	

3. Se valida el funcionamiento de Grafana.

