



Desafío Opcional No. 1

Bootcamp DevOps 63703

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



Illustrations by [Pixeltrue](#) on
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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]

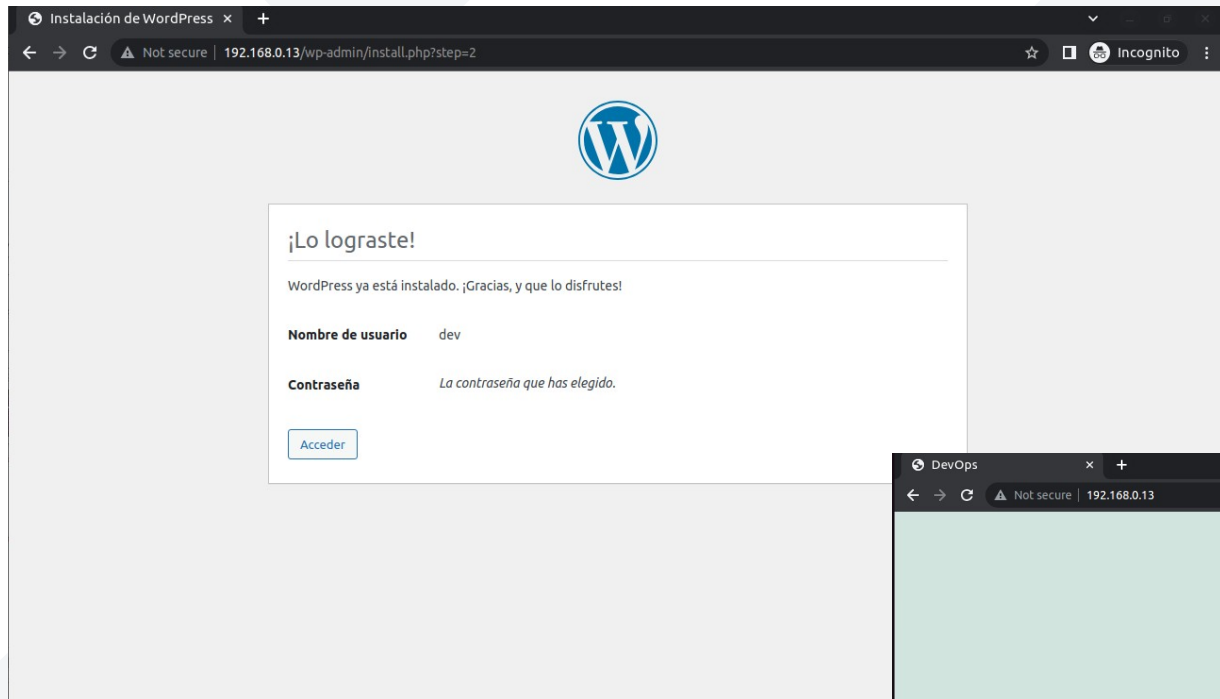
TASK [copy wordpress file to site directory] *****
ok: [192.168.0.13]

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
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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:

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 [Add node_exporter configuration to /etc/prometheus/prometheus.yml file] *****
ok: [192.168.0.13]

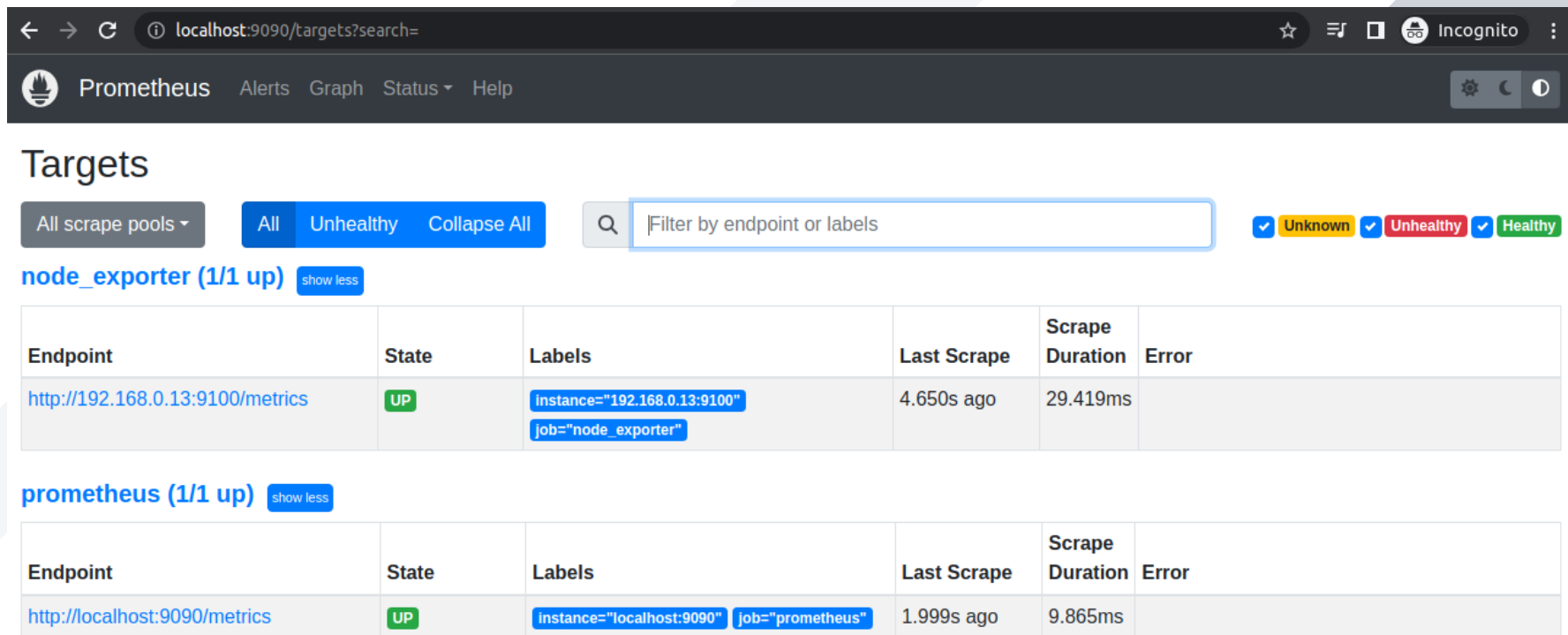
TASK [The prometheus is restarted] *****
changed: [192.168.0.13]

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

PLAY RECAP *****
192.168.0.13      : ok=15   changed=7   unreachable=0   failed=0   skipped=0   rescued=0   ignored=0
localhost       : ok=27   changed=25  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 URL bar shows `localhost:9090/targets?search=`. The interface includes a navigation bar with 'Prometheus', 'Alerts', 'Graph', 'Status', and 'Help'. The main section is titled 'Targets' and features a filter bar with 'All scrape pools', 'All', 'Unhealthy', 'Collapse All', a search input, and status filters for 'Unknown', 'Unhealthy', and 'Healthy'. Two target groups are listed: 'node_exporter (1/1 up)' and 'prometheus (1/1 up)'. Each group has a 'show less' button and a table of target details.

node_exporter (1/1 up) [show less](#)

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>	4.650s ago	29.419ms	

prometheus (1/1 up) [show less](#)

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://localhost:9090/metrics	UP	<code>instance="localhost:9090"</code> <code>job="prometheus"</code>	1.999s ago	9.865ms	

3. Se valida el funcionamiento de Grafana, para ello en Administración – Data Sources, se configuró Prometheus (localhost:9090) y posteriormente se importó el Dashboard No. 1860.

