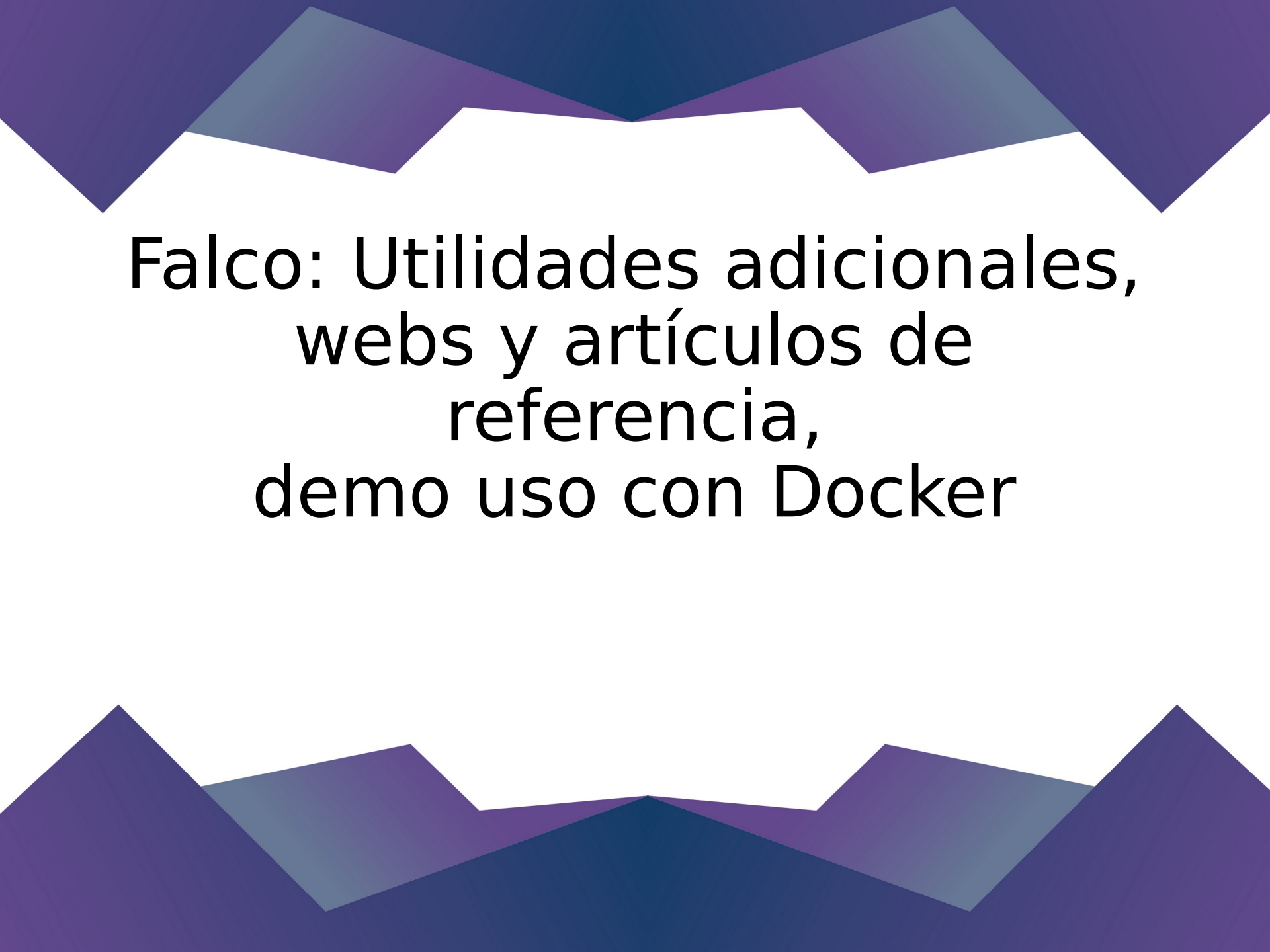




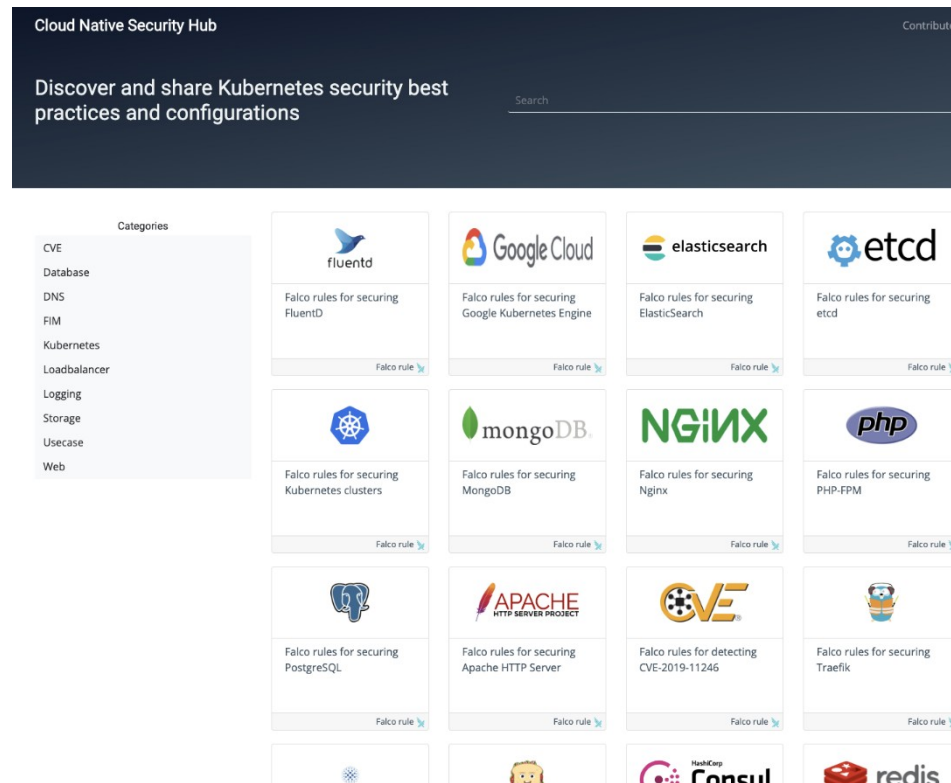
# **Utilidades adicionales para Falco**



Falco: Utilidades adicionales,  
webs y artículos de  
referencia,  
demo uso con Docker

## Cloud Native Security Hub

• <https://securityhub.dev>



## Utilidades más interesantes

- **Kubernetes Response Engine**  
Send events to serverless functions to execute playbooks  
<https://github.com/falcosecurity/kubernetes-response-engine>
- **Falco Sidekick**  
Send events to other targets as Slack, PagerDuty, etc.  
<https://github.com/falcosecurity/falcosidekick>
- **Event generator**  
Binary that executes commands that Falco rules should detect  
<https://falco.org/docs/event-sources/sample-events/>

## Ejemplo: Instalar Falco con Docker

# Instalar driver de Kernel

```
docker pull falcosecurity/falco-driver-loader:latest
```

```
docker run --rm -i -t \  
    --privileged \  
    -v /root/.falco:/root/.falco \  
    -v /proc:/host/proc:ro \  
    -v /boot:/host/boot:ro \  
    -v /lib/modules:/host/lib/modules:ro \  
    -v /usr:/host/usr:ro \  
    -v /etc:/host/etc:ro \  
    falcosecurity/falco-driver-loader:latest
```

# Ejecutar Falco con privilegios

```
docker pull falcosecurity/falco:latest
```

```
docker run --rm -i -t \  
    --privileged \  
    -v \  
    /var/run/docker.sock:/host/var/run/docker.sock \  
    -v /dev:/host/dev \  
    -v /proc:/host/proc:ro \  
    -v /boot:/host/boot:ro \  
    -v /lib/modules:/host/lib/modules:ro \  
    -v /usr:/host/usr:ro \  
    -v /etc:/host/etc:ro \  
    falcosecurity/falco:latest
```

## Ejemplo: Ejecutar event generator

`docker run -it --rm falcosecurity/event-generator run syscall --loop`

```
INFO sleep for 100ms
INFO writing to /etc/created-by-event-generator
INFO sleep for 100ms
INFO run command as another user
er=daemon
INFO sleep for 100ms
INFO writing to /bin/created-by-event-generator
INFO sleep for 100ms
INFO writing to /bin/directory-created-by-event-generator
INFO sleep for 100ms
INFO writing to /dev/created-by-event-generator
WARN action not enabled
INFO sleep for 100ms
INFO spawn as "sha1sum"
$
INFO sleep for 100ms
INFO action executed
INFO sleep for 100ms
INFO spawn as "mysqld"
INFO sleep for 100ms
INFO action executed
INFO sleep for 100ms
INFO spawn as "httpd"
INFO sleep for 100ms
INFO action executed
INFO sleep for 100ms
INFO action executed
INFO sleep for 100ms
INFO spawn as "child"
INFO sleep for 100ms
INFO became user
INFO became user
INFO sleep for 100ms
INFO sleep for 100ms
INFO modifying /bin/true to /bin/true.event-generator
INFO sleep for 100ms
INFO writing to /var/lib/rpm/created-by-event-generator
INFO sleep for 100ms
INFO spawn as "httpd"
SensitiveFileUntrusted$ --sleep 6s
INFO sleep for 6s

action=syscall.WriteBelowEtc
action=syscall.WriteBelowEtc
action=syscall.SystemUserInteractive
action=syscall.SystemUserInteractive cmdArgs="[]" cmdName=/bin/login us
action=syscall.WriteBelowBinaryDir
action=syscall.WriteBelowBinaryDir
action=syscall.MkdirBinaryDirs
action=syscall.MkdirBinaryDirs
action=syscall.CreateFilesBelowDev
action=syscall.CreateFilesBelowDev
action=syscall.ScheduleCronJobs
action=syscall.SystemProcsNetworkActivity
action=syscall.SystemProcsNetworkActivity args=""helper.NetworkActivity
action=helper.NetworkActivity as=sha1sum
action=helper.NetworkActivity as=sha1sum
action=syscall.DbProgramSpawnedProcess
action=syscall.DbProgramSpawnedProcess args=""helper.ExecIs$
action=helper.ExecIs as=mysqld
action=helper.ExecIs as=mysqld
action=syscall.RunShellUntrusted
action=syscall.RunShellUntrusted args=""helper.RunShell$
action=helper.RunShell as=httpd
action=helper.RunShell as=httpd
action=syscall.ReadSensitiveFileUntrusted
action=syscall.ReadSensitiveFileUntrusted
action=syscall.NonSudoSetuid
action=syscall.NonSudoSetuid args=""syscall.NonSudoSetuid$
action=syscall.NonSudoSetuid as=child
action=syscall.NonSudoSetuid as=child user=daemon
action=syscall.NonSudoSetuid as=child user=root
action=syscall.ChangeThreadNamespace
action=syscall.ModifyBinaryDirs
action=syscall.ModifyBinaryDirs
action=syscall.WriteBelowRpmDatabase
action=syscall.WriteBelowRpmDatabase
action=syscall.ReadSensitiveFileTrustedAfterStartup
action=syscall.ReadSensitiveFileTrustedAfterStartup args=""syscall.Read
action=syscall.ReadSensitiveFileUntrusted as=httpd
```

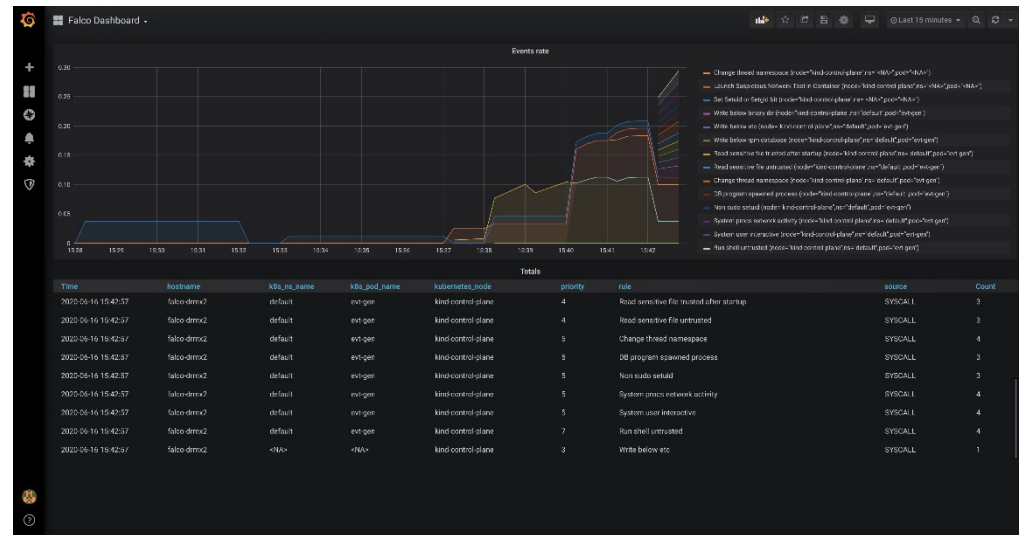


## Utilidades nicho

- **Falco Prometheus Exporter**  
Prometheus metrics for Falco security events  
<https://github.com/falcosecurity/falco-exporter>
- **Falco PSP Convert**  
Convert PSP to Falco rules to test them before enforcing  
<https://falco.org/docs/psp-support/>

## Blog de Falco

- Falco on Kind with Prometheus and Grafana  
<https://falco.org/blog/falco-kind-prometheus-grafana/>
- Detect CVE-2020-8557 using Falco  
<https://falco.org/blog/detect-cve-2020-8557/>





## Artículos externos sobre Falco

- Shopify, enforcing runtime security with Falco  
Upcoming talk at Kubecon 2020  
<https://events.linuxfoundation.org/kubecon-cloudnativecon-europe/>
- Runtime Security in Rancher with Falco  
<https://rancher.com/blog/2020/runtime-security-with-falco/>

## Artículos de Sysdig sobre Falco

- MITRE ATT&CK framework for container runtime security with Falco  
<https://sysdig.com/blog/mitre-attck-framework-for-container-runtime-security-with-sysdig-falco/>
- Protection From Malicious Python Libraries Jeilyfish and Python3-dateutil  
<https://sysdig.com/blog/malicious-python-libraries-jeilyfish-dateutil/>
- SELinux, Seccomp, Falco, and you: A technical discussion  
<https://sysdig.com/blog/selinux-secomp-falco-technical-discussion/>