

# Utilidades adicionales para Falco

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

## Cloud Native Security Hub

- <https://securityhub.dev>

The screenshot shows the homepage of the Cloud Native Security Hub. At the top, there's a dark header with the title "Cloud Native Security Hub" and a search bar. Below the header, a main banner features the text "Discover and share Kubernetes security best practices and configurations". To the right of the banner is a "Contribute" button. On the left side, there's a sidebar titled "Categories" listing various service types: CVE, Database, DNS, FIM, Kubernetes, Loadbalancer, Logging, Storage, Usecase, and Web. The main content area displays a 4x4 grid of cards, each representing a service and its associated security configurations. The services shown include fluentd, Google Cloud, elasticsearch, etcd, Kubernetes clusters, mongoDB, NGINX, PHP, PostgreSQL, Apache HTTP Server, CVE-2019-11246, Traefik, HashiCorp Consul, and redis.

Category	Service	Description	Action
CVE	fluentd	Falco rules for securing FluentD	<a href="#">Falco rule</a>
Database	Google Cloud	Falco rules for securing Google Kubernetes Engine	<a href="#">Falco rule</a>
DNS	elasticsearch	Falco rules for securing ElasticSearch	<a href="#">Falco rule</a>
FIM	etcd	Falco rules for securing etcd	<a href="#">Falco rule</a>
Kubernetes	Kubernetes clusters	Falco rules for securing Kubernetes clusters	<a href="#">Falco rule</a>
Loadbalancer	mongoDB	Falco rules for securing mongoDB	<a href="#">Falco rule</a>
Logging	NGINX	Falco rules for securing Nginx	<a href="#">Falco rule</a>
Storage	PHP	Falco rules for securing PHP-FPM	<a href="#">Falco rule</a>
Usecase			
Web	PostgreSQL	Falco rules for securing PostgreSQL	<a href="#">Falco rule</a>
	Apache HTTP Server	Falco rules for securing Apache HTTP Server	<a href="#">Falco rule</a>
	CVE-2019-11246	Falco rules for detecting CVE-2019-11246	<a href="#">Falco rule</a>
	Traefik	Falco rules for securing Traefik	<a href="#">Falco rule</a>
	HashiCorp Consul		
	redis		

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## 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 falcorecurity/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 \
    falcorecurity/falco-driver-loader:latest
```

```
# Ejecutar Falco con privilegios
docker pull falcorecurity/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 \
    falcorecurity/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
action=syscall.WriteBelowEtc
action=syscall.WriteBelowWtcs
action=syscall.SystemUserInteractive
action=syscall.SystemUserInteractive cmdArgs="[]" cmdName=/bin/login us
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
action=syscall.MkdirBinaryDirs
INFO sleep for 100ms
INFO writing to /dev/created-by-event-generator
action=syscall.CreateFilesBelowDev
WARN action not enabled
INFO sleep for 100ms
INFO spawn as "shai$um"
action=syscall.ScheduleCronJobs
action=syscall.SystemProcsNetworkActivity
action=syscall.SystemProcsNetworkActivity args="^helper.NetworkActivity"
$"
INFO sleep for 100ms
INFO action executed
INFO sleep for 100ms
INFO spawn as "mysqld"
INFO sleep for 100ms
INFO action executed
INFO sleep for 100ms
INFO spawn as "httpd"
INFO sleep for 100ms
INFO action executed
INFO sleep for 100ms
INFO action executed
INFO sleep for 100ms
INFO spawn as "child"
INFO sleep for 100ms
INFO became user
INFO became user
INFO sleep for 100ms
INFO sleep for 100ms
INFO modifying /bin/true to /bin/true.event-generator and back
action=syscall.ModifyBinaryBins
INFO sleep for 100ms
INFO writing to /var/lib/rpm/created-by-event-generator
action=syscall.WriteBelowRpmDatabase
INFO sleep for 100ms
INFO spawn as "httpd"
SensitiveFileUntrusted$ --sleep 6s"
INFO sleep for 6s
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-seccomp-falco-technical-discussion/>