

¡Bienvenidos!

TechZone | 2019


La Paz



AI
ARTIFICIAL
INTELLIGENCE

**BIG
DATA**



CYBER
SECURITY



BLOCKCHAIN



ECONOMÍA DIGITAL



TENDENCIAS ACTUALES
INDUSTRIA DEL SOFT



EL AVANCE DE LA TECNOLOGÍA DE CONTENEDORES EN LINUX

- SCOTT MCCARTY

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Acerca de mí

Scott McCarty

Gerente de Producto - Containers



Red Hat



@fatherlinux



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EL VIAJE

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La Paz



El Viaje Empieza Con Solo Un Nodo



Encontrar

Correr

Construir

Después Queremos Compartir



Encontrar

Correr

Construir



Compartir

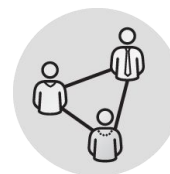
Finalmente, Pensamos en la Producción



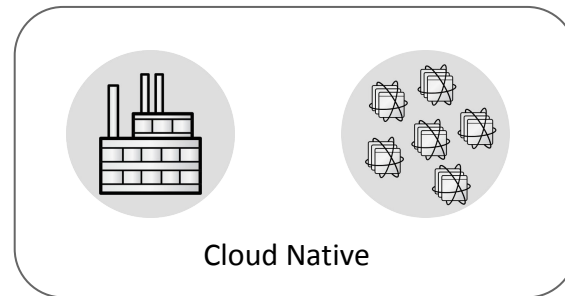
Encontrar

Correr

Construir



Compartir



Integrar

Desplegar

Quizás Queremos un Producto

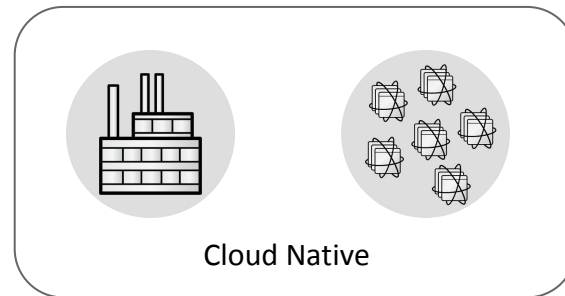


Encontrar

Correr

Construir

RHEL (Podman/Buildah/Skopeo)



Integrar

Desplegar

Quay

OpenShift (Kubernetes)

An aerial photograph of a city built on a steep hillside. In the foreground, a multi-lane road curves through the scene, with several vehicles including a white van, a dark car, and a white truck. A large, modern cable-stayed bridge spans across the middle ground, supported by a tall concrete pylon. The background shows dense residential buildings built into the hillside. A large, semi-transparent purple arrow graphic points from the top right towards the center of the image.

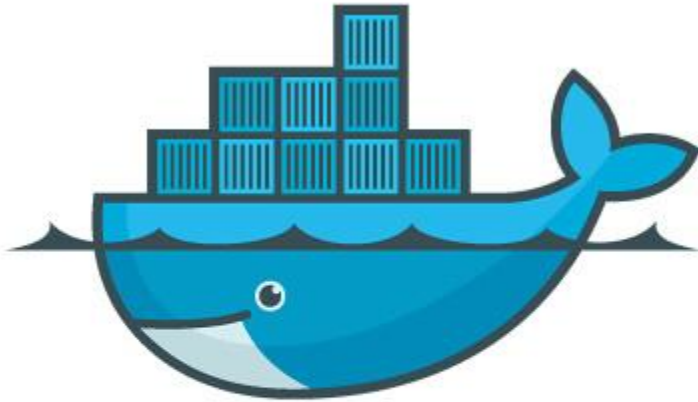
LA HISTORIA

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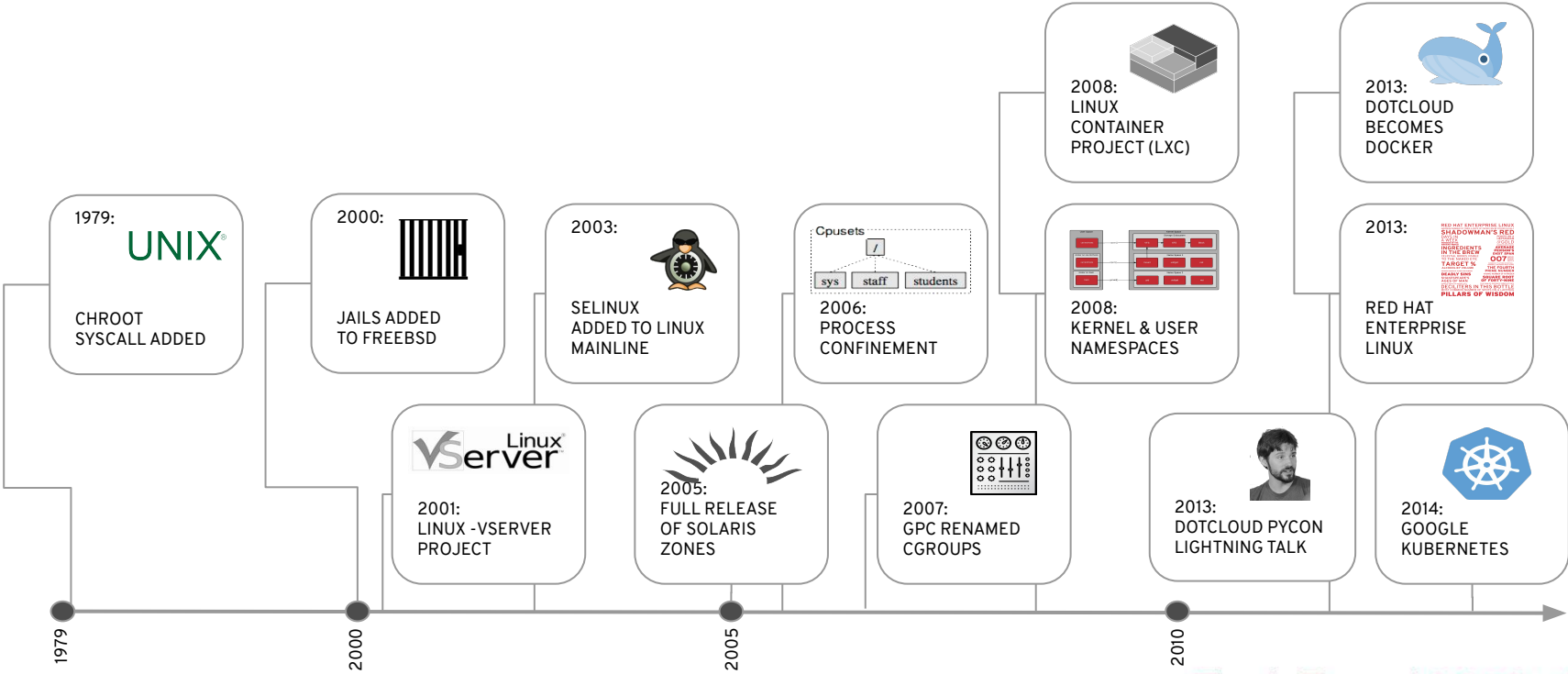


La Paz

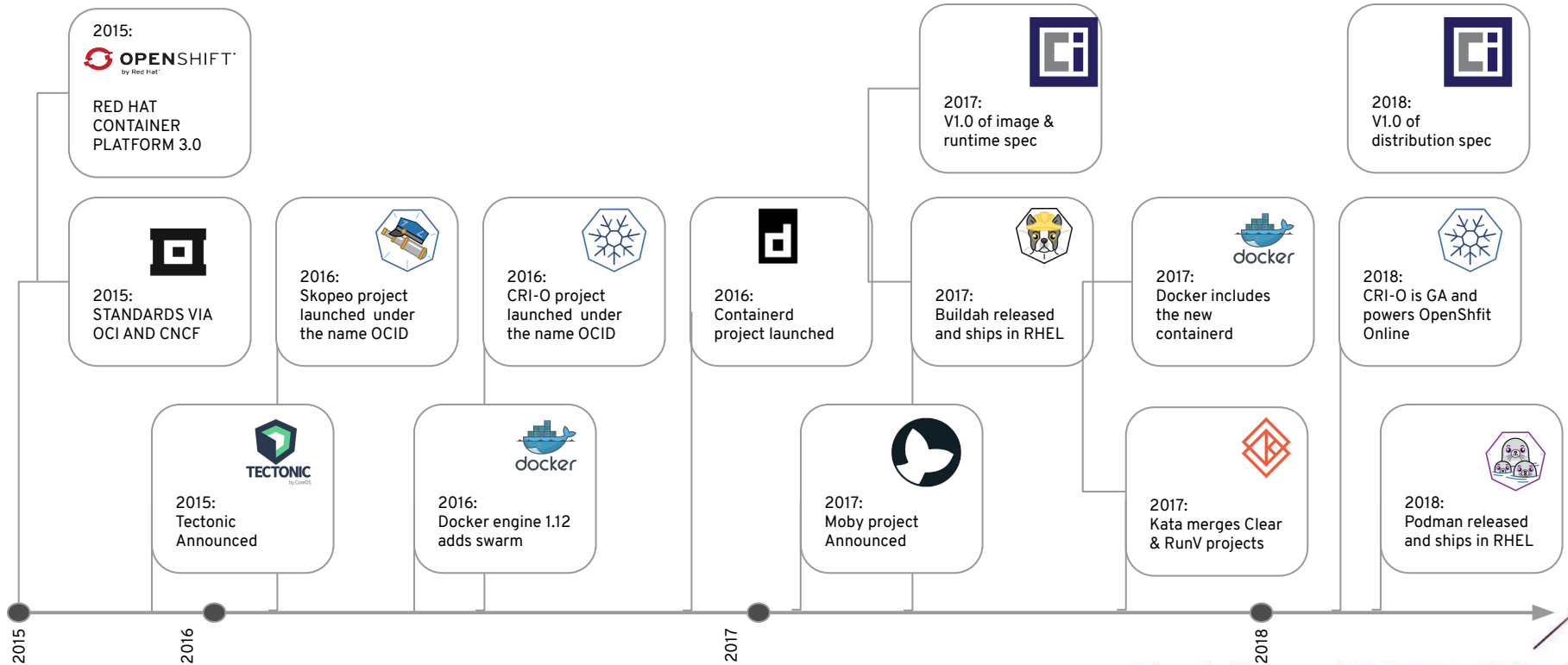
Docker y Kubernetes, es Todo Lo Que Necesitas, verdad?



Tecnología Subyacente



La Innovación Se Ha Detenido?

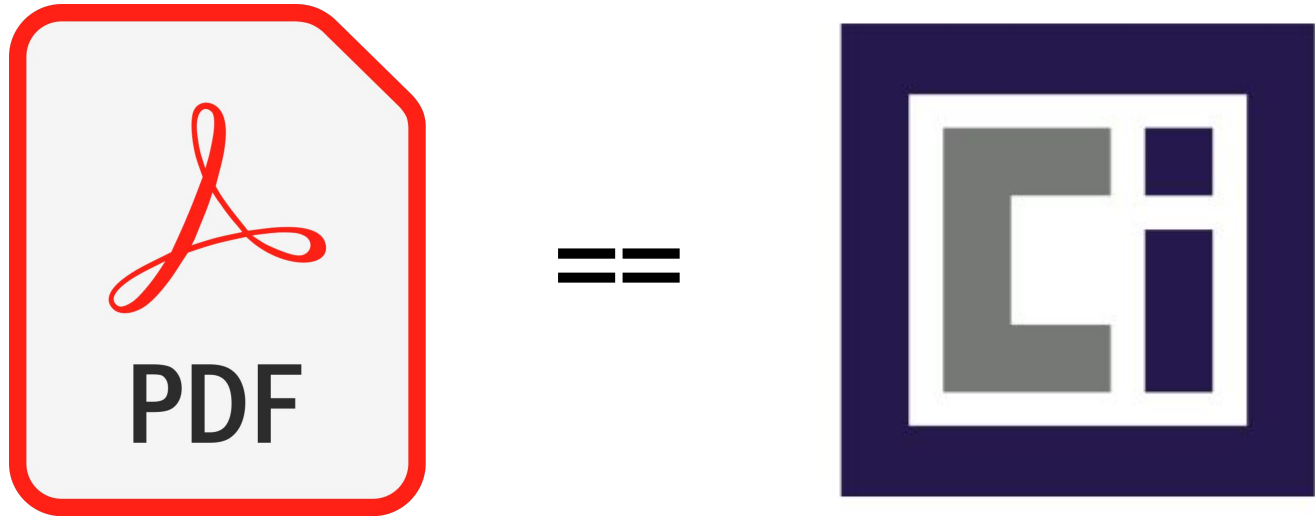


An aerial photograph of a city, likely La Paz, Bolivia, showing a hillside densely packed with multi-story buildings. In the foreground, a large cable-stayed bridge spans across a valley. The bridge has a prominent white pylon and several stay cables. Below the bridge, there are roads with cars and a truck. The entire image has a reddish-pink color cast. A large, semi-transparent purple arrow points from the top right towards the center of the image.

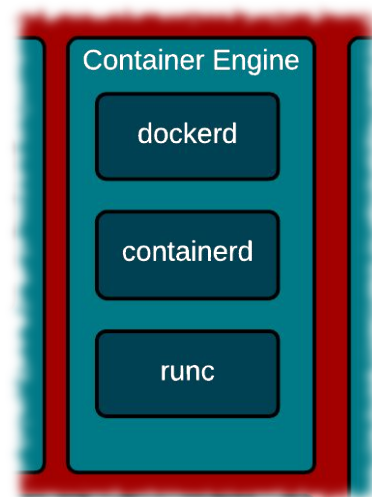
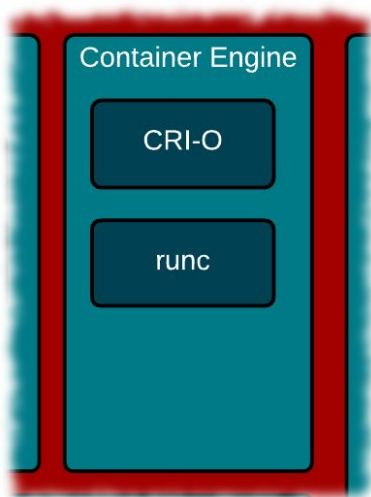
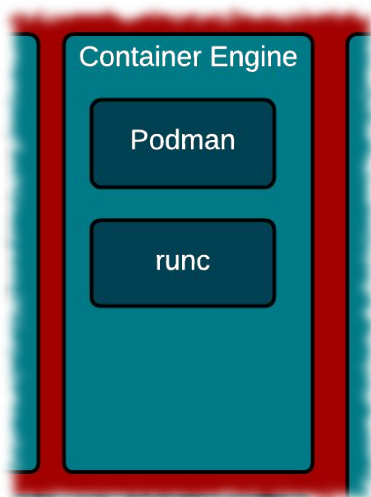
HOY EN DIA
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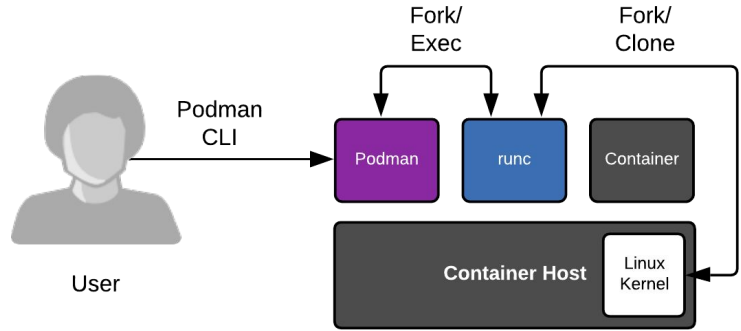
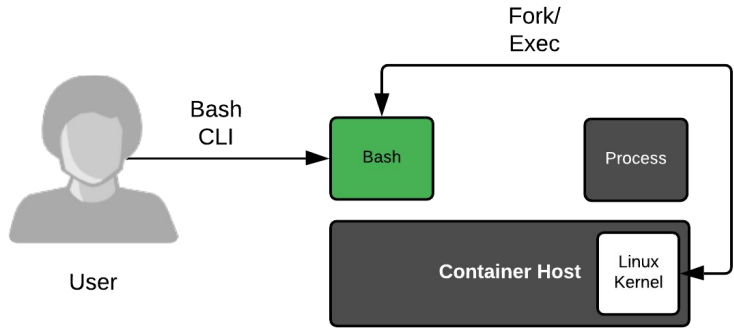
Tenemos Estándares



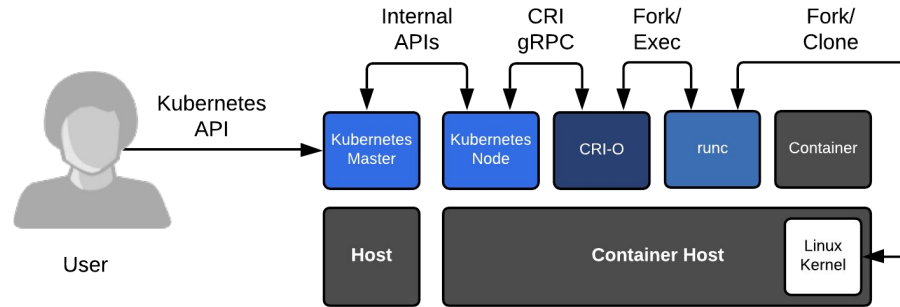
Hay Diferentes Motores de Contenedores



Contenedores Son Procesos: Sin Demonio



Contenedores Son Procesos: Con Demonio



Hay Muchos Proyectos y Expertos



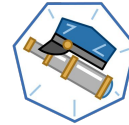
podman



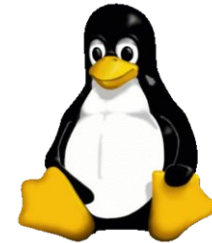
buildah



cri-o



skopeo



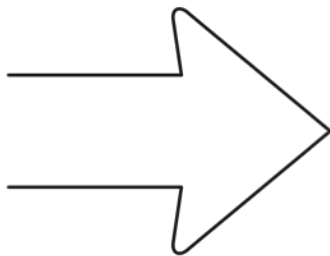
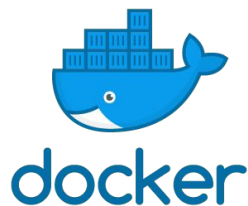
An aerial photograph of a city built on a steep hillside. In the foreground, a multi-lane road curves through the scene, with several vehicles including a white van, a dark car, and a white truck. A large, modern cable-stayed bridge spans across the middle ground, supported by tall concrete piers. The background shows dense residential buildings built into the hillside. A large, semi-transparent purple arrow graphic points from the top right towards the center of the image.

LOS AVANCES

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Podemos Despedazar el Demonio



podman



buildah



skopeo



OPEN CONTAINER
INITIATIVE

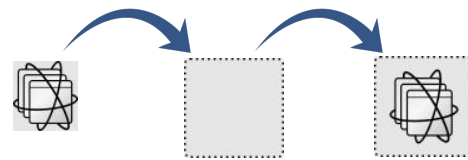
Una Nueva Generación De Herramientas

Container-tools - Herramientas OCI para iniciar, correr, y gestionar de los contenedores Linux:

- De acuerdo con el OCI la especificación de imágenes y runtimes
- No hay demonio, nativo a sistema operativo
- Separación de intereses



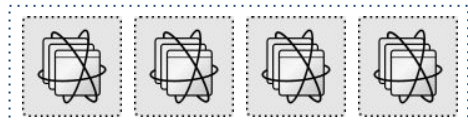
buildah



Construir imágenes OCI/docker



podman



Reemplazar docker sin demonio



skopeo



Inspeccionar, copiar, & firmar imagenes



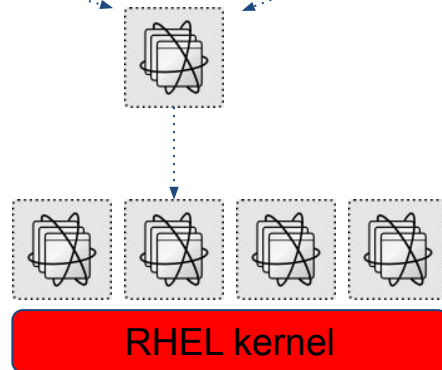
podman

Utilidad general

- No hay demonio
- Mismo CLI que docker
- Rapido y ligera
- Utiliza runC
- Utiliza el estandar CNI por redes
- Acceso remoto por API via Varlink (con systemd)



 VARLINK





buildah

Especializado en construir imágenes

- No es necesario un demonio para construir un imagen OCI
- Puede correr dentro de un contenedor
- Puede utilizar Dockerfile (o no, lo que sea)
- Control de los niveles de imagenes a un nivel muy fino
- Crear imagenes mínimos
- Comparte tecnología subyacente con podman y CRI-O

Start from an existing image or from scratch



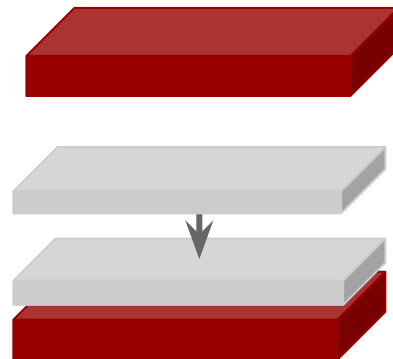
Generate new layers and/or run commands on existing layers

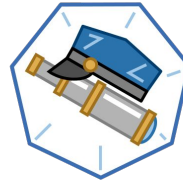


Commit storage and generate the image manifest



Deliver image to a local store or remote OCI / docker registry





skopeo

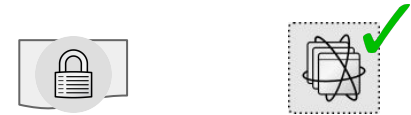
Especializado en mover imágenes

- Originalmente construido para inspección remoto de metadata de las imágenes
- He evolucionado hasta ser una herramienta completa para inspeccionar, firmar, verificar y transferir imágenes
- Capacidad de copiar imágenes de un registro al otro
- Bueno para los ambientes desconectados
- Comparte tecnología subyacente con podman y CRI-O

Inspect



Sign/verify



Transfer
between
registries



An aerial photograph of a city, likely La Paz, Bolivia, showing a hillside densely packed with multi-story buildings. In the foreground, a modern cable-stayed bridge spans across a valley. The bridge has a tall central pylon and several stay cables. Below the bridge, there are roads with cars and a truck. The entire image has a reddish-pink color cast and a large, semi-transparent purple triangle in the upper right corner.

DEMOSTRACIÓN

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¿Preguntas?

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