



## The Ultimate Event-Driven Orchestration Platform: How Direktiv Works

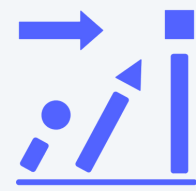
**Fast. Scalable. Reliable. Automated.** These are just a few of the advantages IT engineers experience when they wield the power of an event-driven orchestration platform. An event-driven orchestration platform allows IT engineers to automate the process of responding to certain events or triggers within their IT infrastructure. This can include workflows like:



Automatically scaling resources based on changes in workload.



Automatically provisioning new resources to replace failed ones.



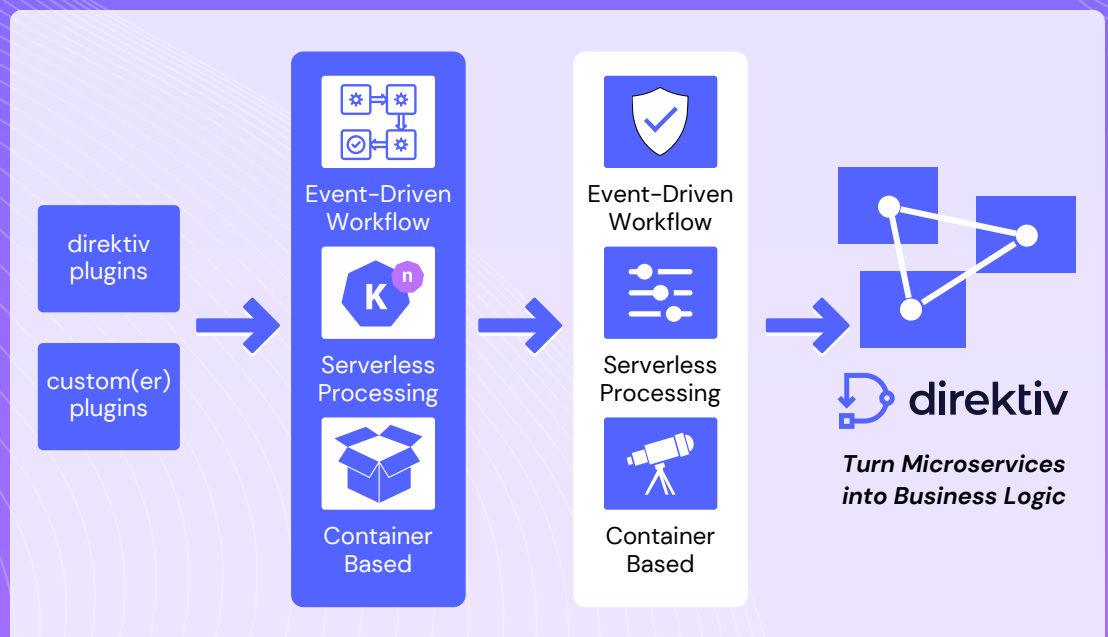
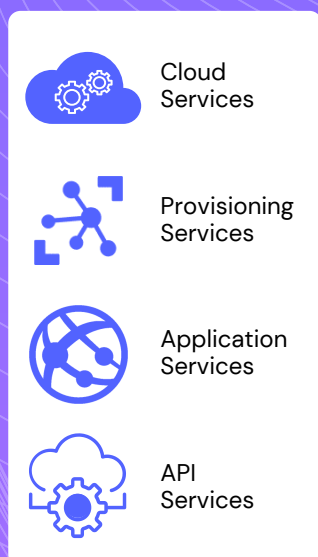
Triggering specific actions in response to security alerts.

### What if you could gain greater choice and flexibility in your workflows?

#### The Direktiv Difference

Scaling the enterprise via event-driven orchestration is easier than ever with Direktiv. With our serverless platform, you can:

- Build workflows using your containers or code
- Deliver digital transformation at speed
- Remove the single-platform risk and leverage your current investment in DevOps



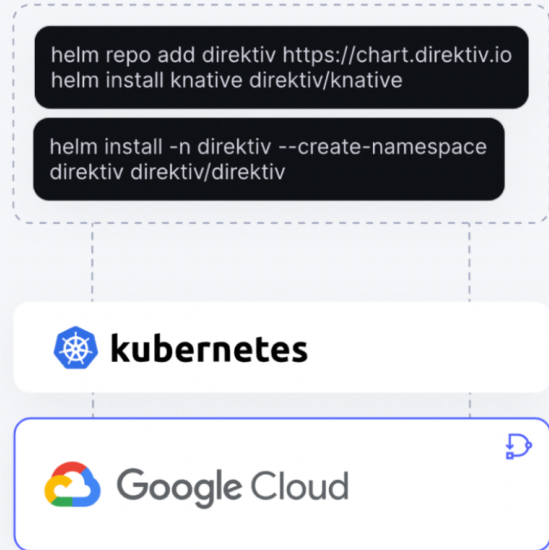
# How Direktiv Works:

## The 4 Steps to Achieving Greater Choice and Flexibility

### 1. Install Direktiv on your server

Install Direktiv with a simple helm install command. All you need for a basic installation is a PostgreSQL database and a Kubernetes cluster.

# 1

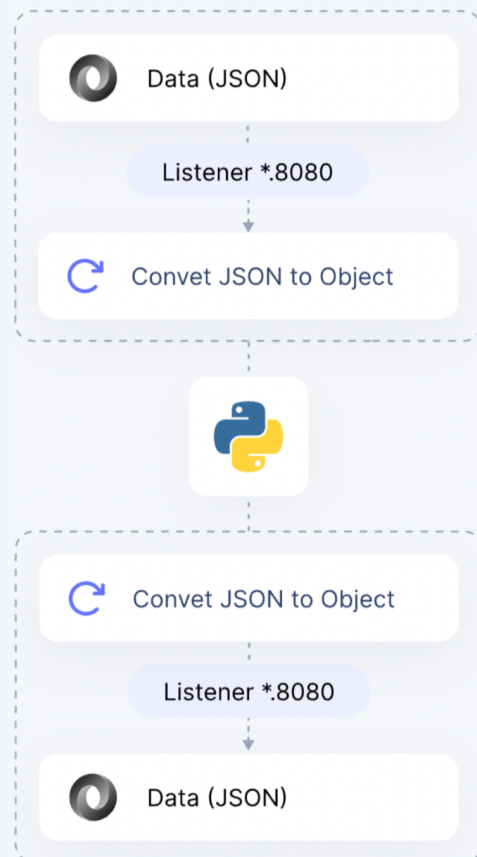


### 2. Create your containers or choose from DirektivApps

Do you need to create or integrate your own containers? We have 3 options:

1. Use the serverless containers DirektivApps provide to run your Go, Java, Node, Python, or any language.
2. Create your custom containers in the simplest way by using Go, Java, Node, Python, or any language. Use JSON for the data structure and an HTTP(S) listener for transport.
3. Or find your appropriate container in DirektivApps.

# 2



### 3. Define the flow in YAML or in UI builder

Express all workflow states, transitions, evaluations, and actions needed to complete the workflow by using YAML or UI builder. The configuration of the workflow components has never been so simple.

# 3

YAML ☒ UI Builder

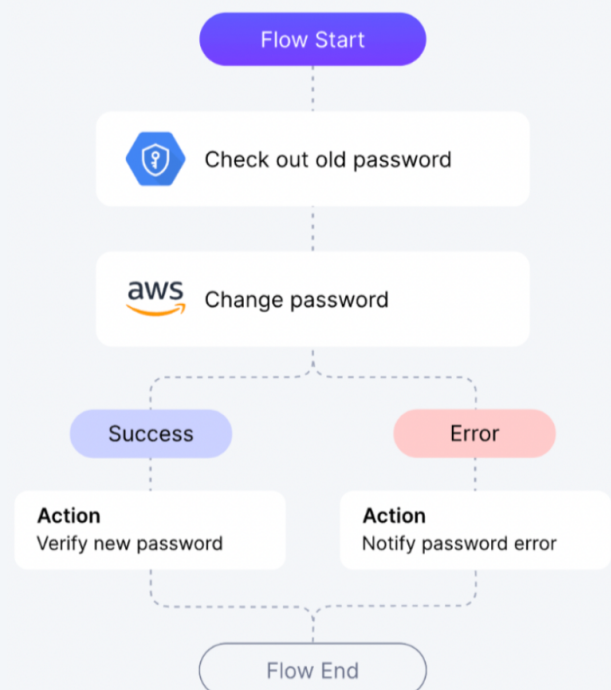
```
1 description: A workflow which will start based
  on an AWS event being received. It will check
  for the username, and create it if necessary,
  set the password based on a password being
  retrieved from the password storage and update
  the keystore (after validation)
2 # The start definition which starts the
  workflow based on the event received from the
3 start:
4   type: event
5   state: check-event
6   event:
7     type: "EC2 Instance State-change
      Notification"
8 # Use the SSH/SCP direktiv-app container to
  make the connection to the type: linux
```

### 4. Run the workflow

Run your workflow and track progress easily. Direktiv will listen for CloudEvents, execute the workflow states and run your containers as extensions to the workflow.

Monitor the outputs, logs and debug information from your favorite Observability product (Splunk, Elastic, Grafana etc.) using Direktiv's observability integrations!

# 4



## Direktiv's Key Differentiators:



### Container Driven Standardization

Retain your current code, whilst modernizing it in a serverless environment as microservices.



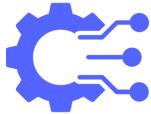
### Hybrid Deployment Model

Choose from public cloud deployment or on-premise deployment.



### Infrastructure Agnostic

Remove the need to manage capacity, availability or solution scaling.



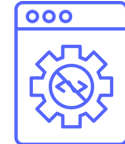
### Enterprise Ready Integrations

Open Policy Agent for control, Keycloak for authentication & authorization, and OpenTelemetry for tracing, logging and performance.



### Contributor to Open-Source

Kubernetes, CloudEvents, Open Policy Agent and Direktiv projects.



### No SDK or Code Instrumentation

Direktiv leverages your current code and your current CI/CD pipelines, tools and processes.



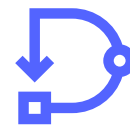
### Run Components Serverless

Freedom to run any Direktiv component on any environment supported by K8s.



### Use Your Own Containers

Leverage your current code, containers, and in-house developed scripts without technical debt.



### Use DirektivApps

Use the Direktiv pre-built containers to accelerate your workflow builds and integrations.



### Build and React with Event-Driven Workflows

Trigger event-based workflows. Handle periodic tasks with cron scheduling, or script using the APIs.



### Enterprise Features

View reports, tracks and log all activities to logging and reporting solutions such as Splunk, Datadog, etc.



### Gain More Control

Control runtime schedules, container restrictions, policy execution schedule, ownership and control.

You've just discovered the strengths and key differences of Direktiv.  
Now it's time to see what you can achieve by using it.

**Get Started with Direktiv**

### About Direktiv

Direktiv is cloud native and serverless, which means it's cloud, vendor and platform agnostic. It uses the latest event-driven architectures to drive the workflows or microservices orchestration. Users create elegant and simple workflows using a descriptive industry standard. Direktiv allows developers to use their current processes and the freedom to use their preferred (or ANY) coding language through the use of containers.

Learn more by visiting [direktiv.io](https://direktiv.io).