

## WeatherNotif

Follow the steps below to start the project and interact with the bot

### To start the project:

-Run the "docker compose up" command to start the project, you can then interact with the Telegram bot

Starting the bot:

-Open Telegram and search for the bot "WeatherNotif"

-Start the bot by selecting the icon and pressing "Start."

Commands:

Once the bot is started, you can use the following commands:

/help - Show this help message.

/sub - Use this command specifying the city and your alerts

/alert - List of possible alerts

/show\_sub -Shows the list of subscriptions made

To create a subscription, use the /sub command followed by the desired city,rain condition, and maximum and minimum temperatures.

For example: " /sub Catania Rain Tempmax:30 Tempmin:20 "

Rain - alert the user when it's gonna rain

Tempmax:value - alert the user when the temp reaches or surpass the specified value.

Tempmin:value - same logic as before considering a minimum temperature.

PSA: alerts are not case sensitive"

Receiving Notifications

After creating a subscription, wait approximately 3 minutes to receive the notification message related to your request

### To deploy the application on Kubernetes:

-Create a new kind cluster using the YAML configuration file.

kind create cluster --name wnotif --config kind-config.yaml

-Load Docker images (usermanager, tgramnotif, meteoretrieval) into the cluster.

kind load docker-image usermanager

-Apply the manifests to the cluster.

sudo kubectl apply -f kafka-all-in-one.yaml

-Create Kafka topics.

kafkacli/kafka\_2.13-3.6.1\$ sudo bin/kafka-topics.sh --create --topic WAlerts

--bootstrap-server localhost:9092

sudo bin/kafka-topics.sh --create --topic BakedData

--bootstrap-server localhost:9092

-Apply the manifests to the cluster (redis, mysql, usermanager, tgramnotif, meteoretrieval).

sudo kubectl apply -f nome-del-file.yaml