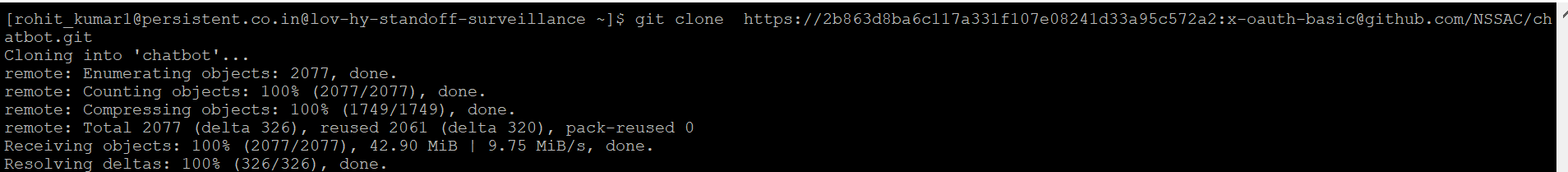
# About:

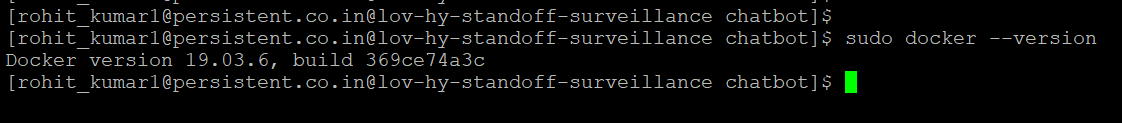
The AI-Powered rasa chatbot makes uses of two services/servers i.e., Rasa Server and the Action Server .Docker compose allows us to run both the servers simultaneously and interact with each other ,maintain the chat history in the container , expose the host over API and many other operations.

# How to get Started:

* Clone the repository from the GitHub: git clone <https://2b863d8ba6c117a331f107e08241d33a95c572a2:x-oauth-basic@github.com/NSSAC/chatbot.git>



* Prerequisite: You ought to have docker (version 18 or above) and docker compose installed on your machine/VM.



* The cloned repository will have Dockerfile and docker-compose.yml file which contains all the rasa image, dependencies, network and volumes information’s:

Text

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A screenshot of a computer screen

Description automatically generated

* Run **docker build -t rasa/rasa-action-server .** at the level where the Dockerfile exists. It will create a custom rasa action server image. The name of the image must be **rasa/rasa-action-server** or if you want a custom image name, you also need to change in the docker-compose.yml file. You can see the images by running **docker images** command. As in below figure rasa/rasa-action-server is our image.

A picture containing text

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* Now, run **docker-compose up** to start both rasa and action servers.

A picture containing background pattern

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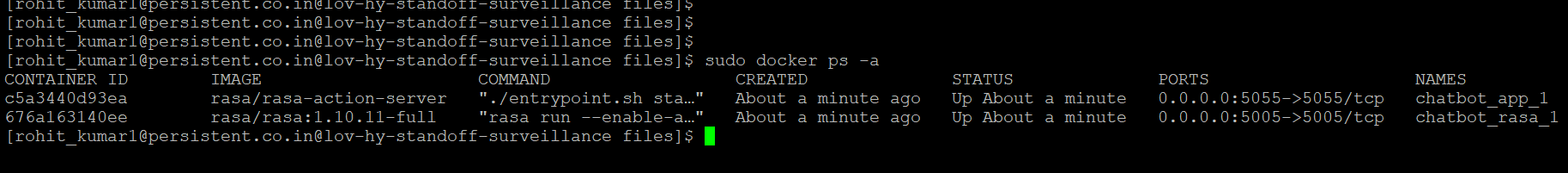
* Now the servers are up and running, we can access the docker service by making an POST API request to the docker using below details:
  + http://<host-ip>:5005/webhooks/rest/webhook
  + Content-type: application/json
  + Eg: Body : { “message” : “hello”}

Graphical user interface, text, application, email

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# Other actions:

* Run **docker ps -a** to see the list of running containers.



* To work inside a container run **docker exec -it <rasa-action-server-container-id> bash**

**A screenshot of a computer screen

Description automatically generated**

like you can see the chat history in the file named listfile.txt by running **cat listfile.txt as** shown in below image

**A picture containing water, outdoor, people, holding

Description automatically generated**

* To stop the compose network/servers simply run **ctrl+c** and to remove all volume run **docker-compose down**
* And to stop the containers run: **docker stop <container-id>**
* To train the rasa for the newly added intents or if you don’t have any model available to you then run

**docker run --user 1000 -it -v $(pwd):/app rasa/rasa:1.10.11-full train**

if it gives permission error give permission to the models’ directory: **chmod 777 models**

* If there is a new commit in the GitHub, then follow below instructions:
* Stop the current running compose network: **ctrl+c**
* Delete the old rasa action server image: **docker rmi** **rasa/rasa-action-server**
* Run **docker build -t rasa/rasa-action-server .**
* Then run **docker-compose up**
* **docker system prune** command removes all the dangling images and stopped containers.
* To inspect or to know more information of a container like ipaddress, port, volume etc.

**run docker inspect <container-id>**

* Point to remember: Always run build and compose commands at the level where the Dockerfile and docker-compose.yml file is present.

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