Installation Guide for CVAT on Ubuntu: Step-by-Step Instructions

Using CVAT for Image and Video Annotation

Website url:- https://docs.cvat.ai/docs/administration/basics/installation/

1. Introduction

CVAT (Computer Vision Annotation Tool) is a powerful tool designed for annotating images and videos for machine learning and computer vision applications. This guide provides detailed instructions on how to install CVAT on an Ubuntu system.

2. Prerequisites

 System **Requirements**: Ensure your system meets the necessary hardware and software requirements.

 Required **Software**: Docker and Docker Compose are required for CVAT installation.

 Basic **Knowledge**: Familiarity with terminal commands and basic Docker usage is assumed.

3.Preparing Your Ubuntu System

Updating the System:

Commands:

- sudo apt update
- sudo apt upgrade
- sudo apt-get --no-install-recommends install -y \
  apt-transport-https \
  ca-certificates \
  curl \
  gnupg-agent \
  software-properties-common
- curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add –
- sudo add-apt-repository \
  "deb [arch=amd64] https://download.docker.com/linux/ubuntu \
  $(lsb_release -cs) \
  stable"
- sudo apt-get update
- sudo apt-get --no-install-recommends install -y \
- docker-ce docker-ce-cli containerd.io docker-compose-plugin

Add User to Docker Group

- sudo groupadd docker
- sudo usermod -aG docker $USER

Clone CVAT Repository

- sudo apt install git
- git clone https://github.com/cvat-ai/cvat
- cd cvat

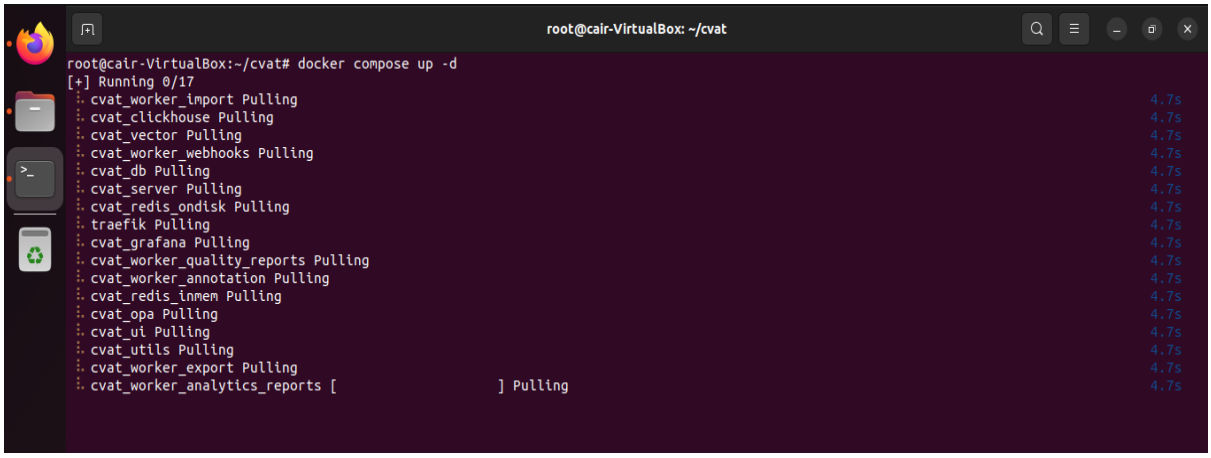
Start CVAT Using Docker Compose:

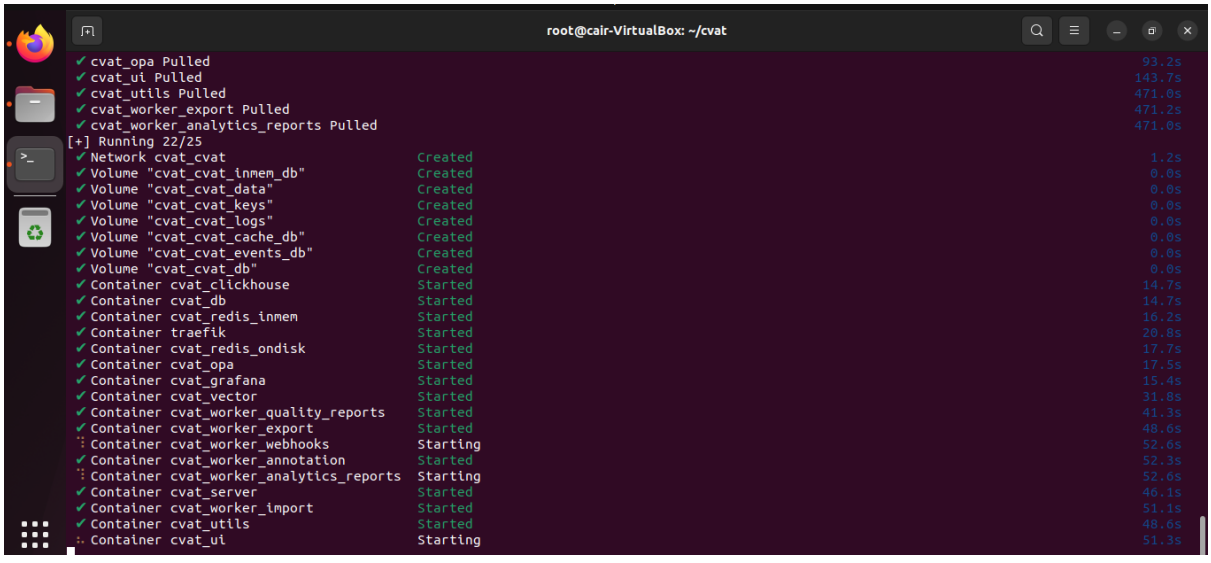
- docker compose up -d

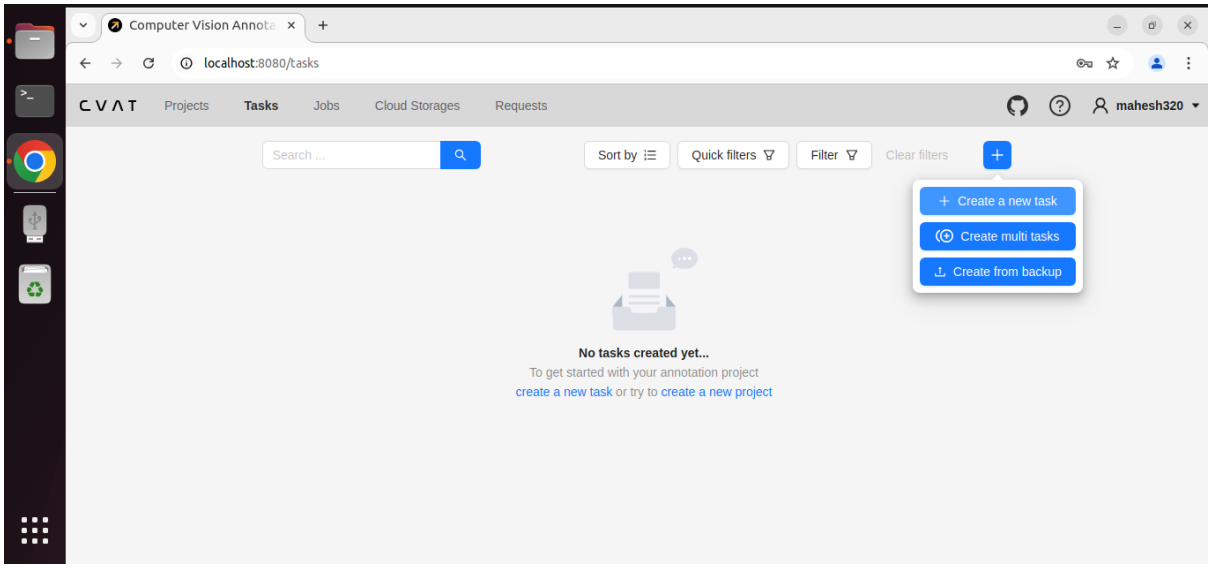
Accessing CVAT

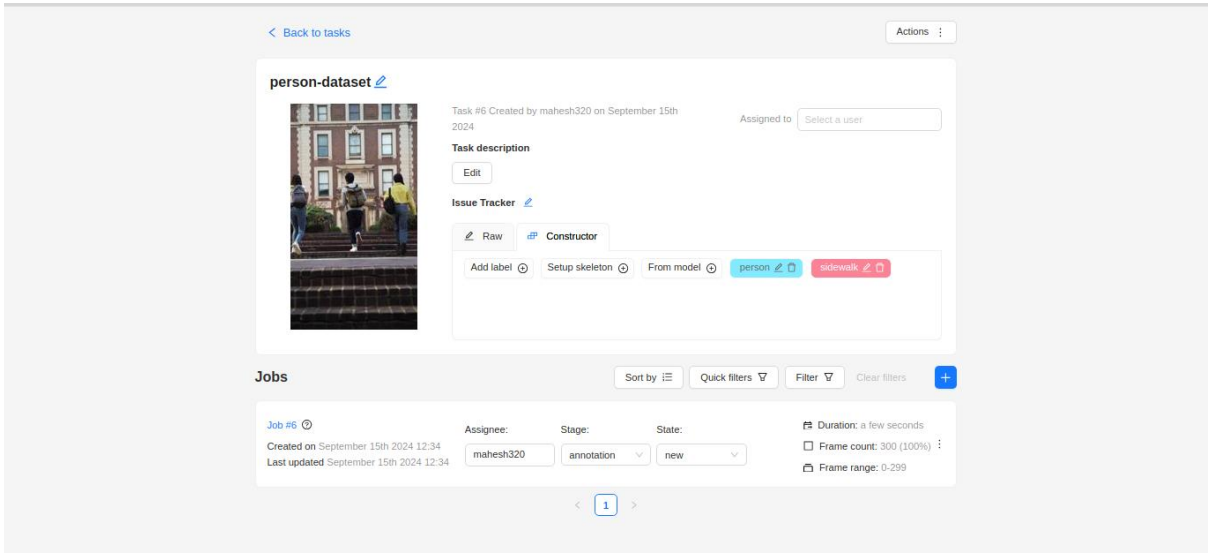
- Navigate to the CVAT web interface using your browser at http://localhost:8080.

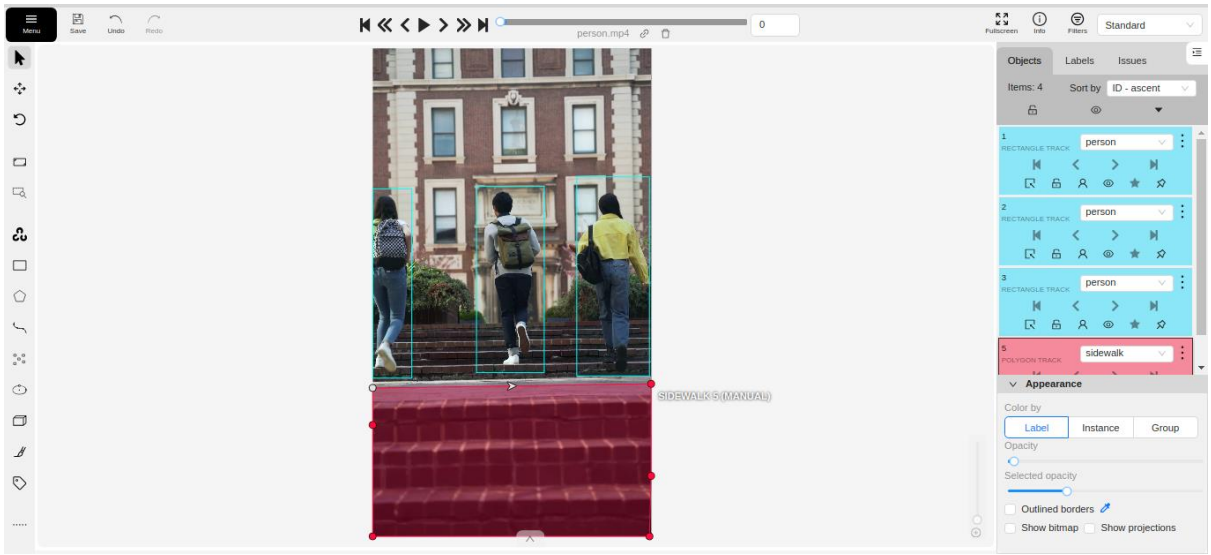
Images

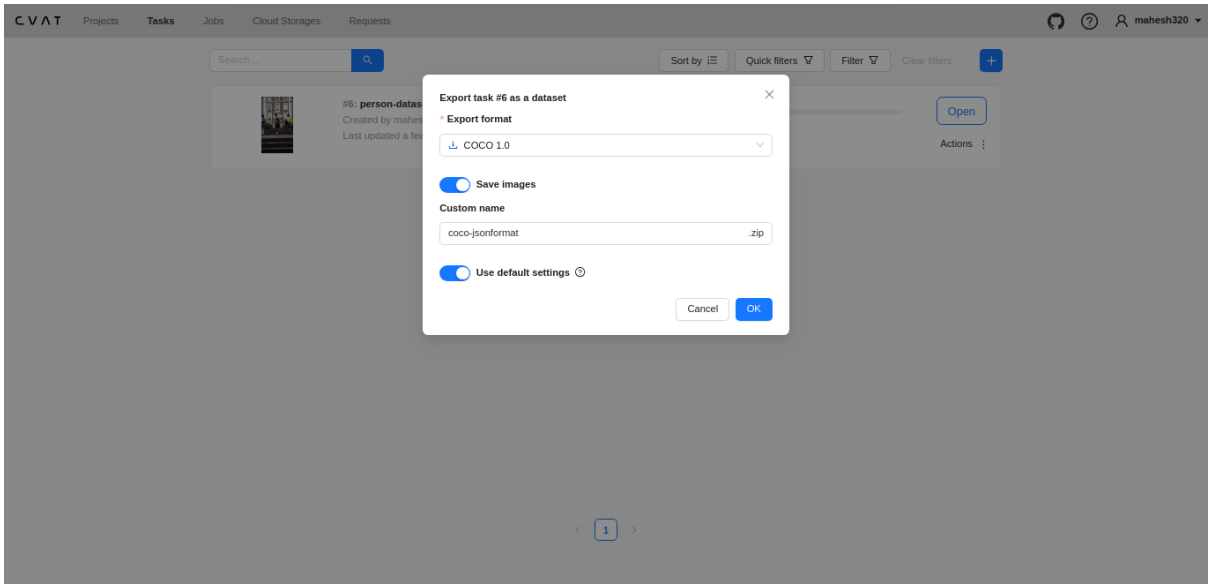





Computer Vision Annota
localhost:8080/tasks
CVAT
Projects
Tasks
Jobs
Cloud Storages
Requests
mahesh320
Search ...
Sort by
Quick filters
Filter
Clear filters
Create a new task
Create multi tasks
Create from backup
No tasks created yet...
To get started with your annotation project
create a new task or try to create a new project


Back to tasks
Actions
person-dataset
Task #6 Created by mahesh320 on September 15th 2024
Assigned to
Select a user
Task description
Edit
Issue Tracker
Raw
Constructor
Add label
Setup skeleton
From model
person
sidewalk
Jobs
Sort by
Quick filters
Filter
Clear filters
Job #6
Created on September 15th 2024 12:34
Last updated September 15th 2024 12:34
Assignee:
mahesh320
Stage:
annotation
State:
new
Duration: a few seconds
Frame count: 300 (100%)
Frame range: 0-299
1


Menu
Save
Undo
Redo
person.mp4
0
Fullscreen
Info
Filters
Standard
Objects
Labels
Issues
Items: 4
Sort by
ID - ascent
person
sidewalk
Appearance
Color by
Label
Instance
Group
Opacity
Selected opacity
Outlined borders
Show bitmap
Show projections



- **Navigate to Export Options:** Locate the export functionality within the task's dashboard.
- **Choose COCO Format:** Select COCO from the available export formats.
- **Export and Download:** Click on the export button to generate and download the COCO format file (in JSON format).

For further discussion or questions, feel free to connect with me on LinkedIn