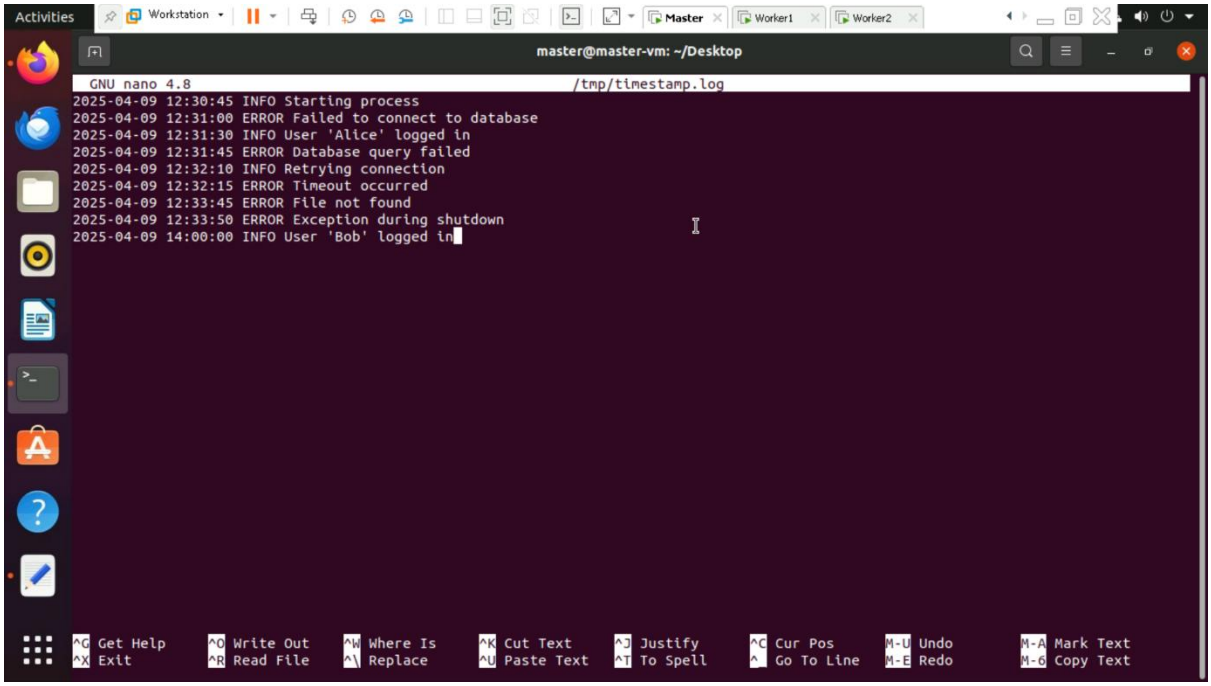
Q. Python scripting to parse log files and extract the errors

devops-commontrack-mocktest/question3 at main · KPkm25/devops-commontrack-mocktest

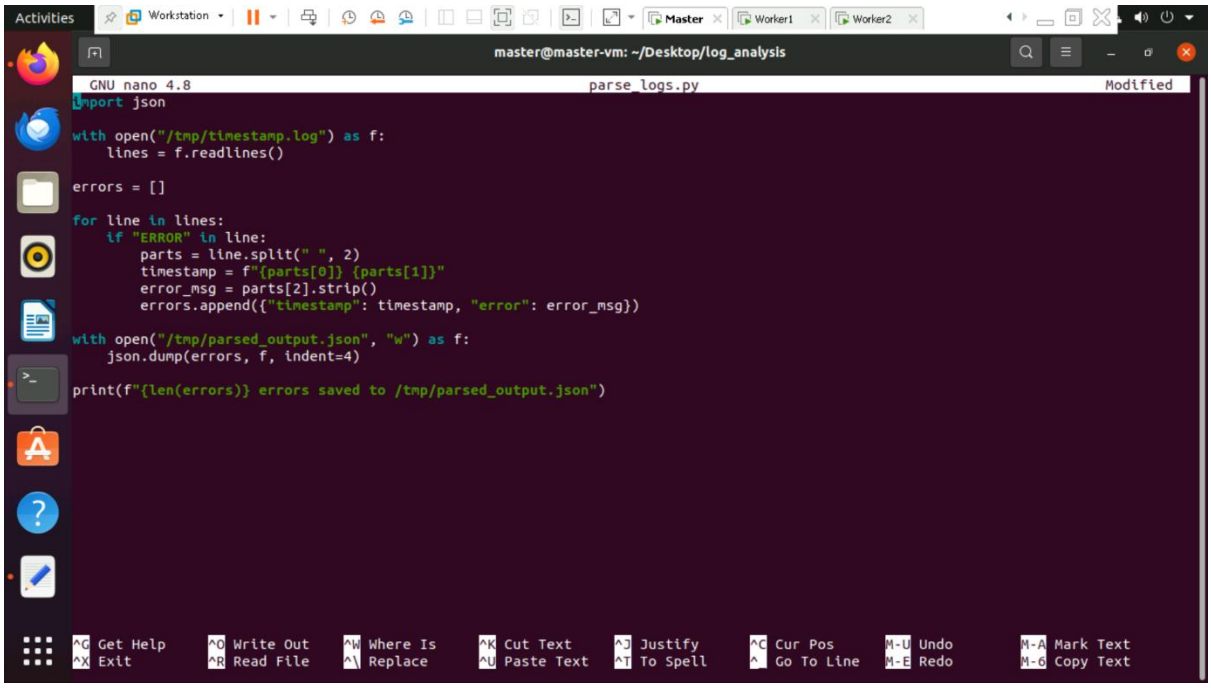
1. Create a sample error file using the following command

Nano tmp/timestamp.log



2. Create a python script to parse through the log files and check for errors

Nano parse_logs.py

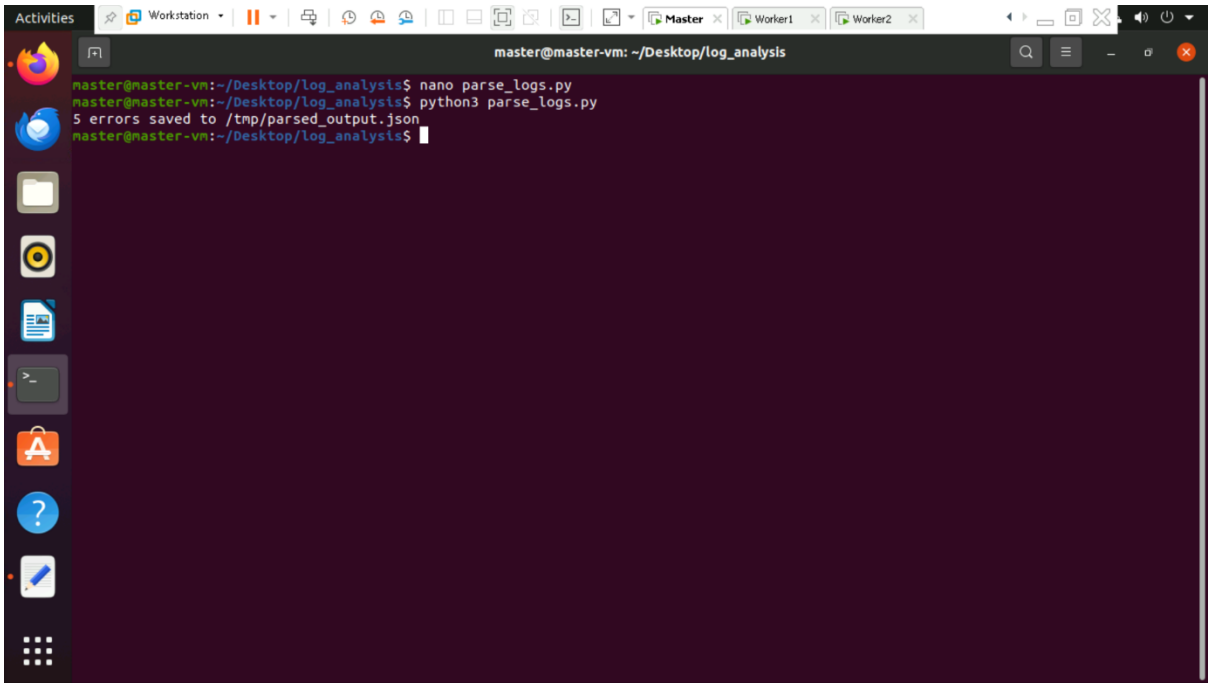


This script parses the timestamp.log file and looks for “ERROR”. Once found, the line containing “ERROR” is split into three parts according to whitespaces. The date and time part are

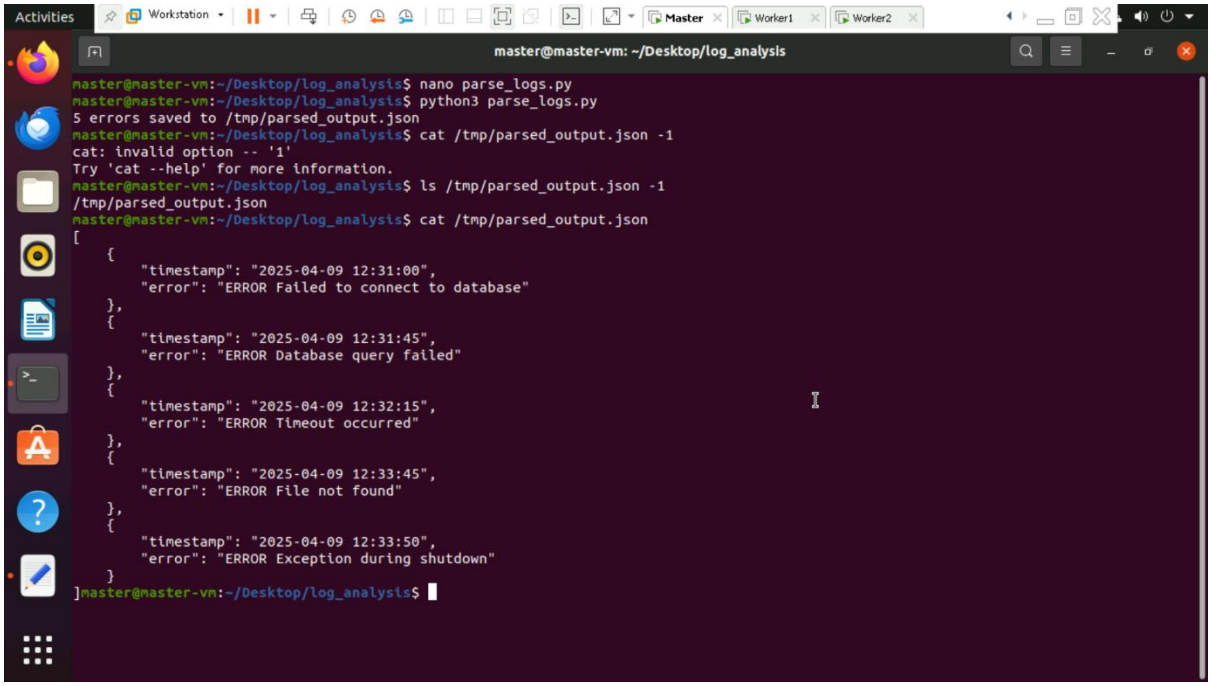
appended to create the timestamp while the 3rd part is used as the error message. The timestamp and the error message are appended to an empty array ‘errors[]’ which is then written into the output file /tmp/parsed_output.json

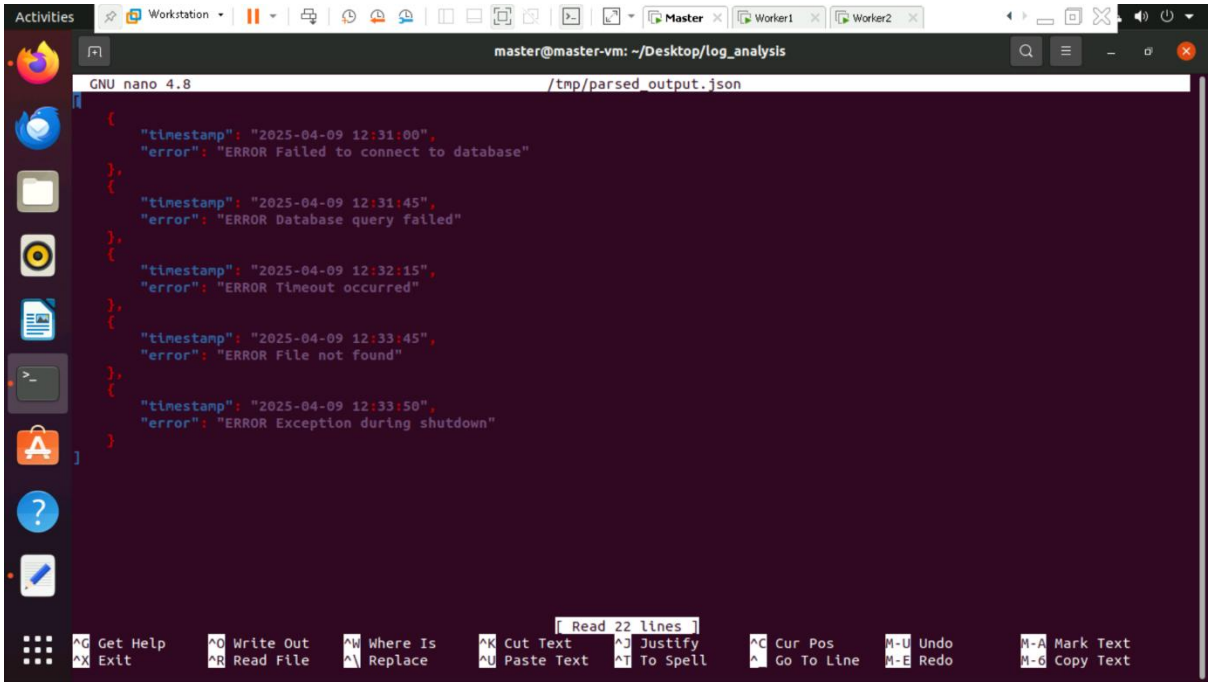
3. Execute the python script using the following command

Python3 parse_logs.py



4. /tmp/parsed_output.json file is created with all the errors




Activities
Workstation
Master
Worker1
Worker2
master@master-vm: ~/Desktop/log_analysis
GNU nano 4.8
/tmp/parsed_output.json
[
{
"timestamp": "2025-04-09 12:31:00",
"error": "ERROR Failed to connect to database"
},
{
"timestamp": "2025-04-09 12:31:45",
"error": "ERROR Database query failed"
},
{
"timestamp": "2025-04-09 12:32:15",
"error": "ERROR Timeout occurred"
},
{
"timestamp": "2025-04-09 12:33:45",
"error": "ERROR File not found"
},
{
"timestamp": "2025-04-09 12:33:50",
"error": "ERROR Exception during shutdown"
}
]
[Read 22 lines]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo M-6 Copy Text