

EventFilter

+ event_type : str
+ count : bool
+ level : Optional[str]
+ pattern_str : Optional[str]
+ pattern : Optional[Pattern]

+ __init__(event_type: str, count: bool = False, level: Optional[str] = None, pattern: Optional[str] = None)

+ matches(log: Dict[str, Any]) : bool

+ description() : str

parse_events_file(events_file: str) -> List[EventFilter]

Parse the events configuration file and return a list of EventFilter objects. Ignores comments and blank lines. Handles parsing errors gracefully.

parse_log_line(line: str) -> Optional[Dict[str, Any]]:

Parse a single log line into its components. Returns a dict with timestamp, level, event_type, message, and raw line. Returns None if the line does not match the expected format.

log_files_in_dir(log_dir: str) -> Iterator[str]:

Yield all .log and .log.gz files in the given directory, but only if they are files (not directories).

filter_logs(log_dir: str, from_ts: Optional[str], to_ts: Optional[str]) -> Iterator[Dict[str, Any]]:

Yield lines from a log file, supporting both plain text and gzip-compressed files.

analyze_logs(log_dir: str, event_filters: List[EventFilter], from_ts: Optional[str], to_ts: Optional[str]) -> List[Tuple[EventFilter, List[Dict[str, Any]]]]:

For each event filter, collect all matching log entries from the log files. Returns a list of (EventFilter, [matching logs]) tuples. This version processes logs in a streaming fashion for memory efficiency.

format_results(results: List[Tuple[EventFilter, List[Dict[str, Any]]]]) -> str:

Yield lines from a log file, supporting both plain text and gzip-compressed files.

