AMBIENT-IT

+33 (0)1 48 10 09 46
formation@ambient-it.net
140 Avenue Jean Lolive 93500 Pantin - France

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HolmesGPT Training

1 day (7 hours)

Overview

HolmesGPT is an open-source SRE agent designed to accelerate the investigation of production incidents using artificial intelligence, metrics, logs, and traces.

Our HolmesGPT training will help you get up to speed with this assisted investigation tool to reduce the time spent diagnosing alerts and improve the quality of initial analyses performed by operations teams.

You'll learn how to install and configure HolmesGPT, select a language model provider, and then connect relevant observability sources, including Kubernetes, Prometheus, cloud platforms, and logging tools.

The training will also teach you how to structure effective queries, interpret the generated reports, and cross-reference hypotheses with available technical data.
You'll learn to use conversational investigations to assess an incident, identify probable causes, and prepare remediation actions.

Finally, you'll cover security principles, read-only permissions, access governance, and the automation of health checks. This will provide you with an operational approach for integrating HolmesGPT into a reliable and controlled SRE process.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand HolmesGPT's role in an SRE and observability approach.
- Install and configure HolmesGPT with a language model provider.

- Connect the telemetry sources needed for incident investigation.
- Conduct an assisted investigation based on a Prometheus or Kubernetes alert.
- Interpret the results, validate hypotheses, and apply access security principles.

Target Audience

- SRE Engineer
- DevOps Engineer
- System Administrator
- Platform Engineer
- Observability Manager

Requirements

- Experience operating applications in production.
- Knowledge of monitoring, logging, and incident management principles.
- Proficiency with basic Linux commands.
- Operational knowledge of Kubernetes and Prometheus.

Technical Requirements

- Computer running Linux, macOS, or Windows 11 with a terminal environment available.
- Computer with at least 8 GB of RAM and a stable internet connection.
- Python 3.10 or later and Git must be installed.
- Access to a Kubernetes demo environment and a Prometheus instance, or an environment provided by the instructor.

HolmesGPT Training Curriculum

[Day 1 - Morning]

Fundamentals and Setup of HolmesGPT

- HolmesGPT’s role in SRE practices, observability, and incident response.
- Agent architecture: conversational interface, tool calls, model providers, and context gathering.
- Installation and initial configuration: environment variables, access keys, model selection, and execution modes.
- Connecting operational data: Kubernetes, Prometheus, logs, traces, and cloud services.
- Securing investigations: RBAC, read-only access, data scope, and human validation.
- Hands-on workshop: Install and configure HolmesGPT, connect a Kubernetes and perform an initial diagnostic query.

[Day 1 - Afternoon]

Incident Investigation and Standardization of Controls

- Formulating an investigation: alert context, observed symptoms, follow-up questions, and use of runbooks.
- Cross-analysis of metrics, logs, and traces to build a root cause hypothesis
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- Critical review of HolmesGPT reports: evidence collected, limitations of the results, validation of hypotheses, and prioritization of actions.
- Use of Prometheus alerts, conversational investigation, and preparation of an actionable actionable incident response.
- Introduction to operations mode: scheduled health checks, proactive detection, and integration into operational processes.
- Hands-on workshop: Investigate a simulated Prometheus alert, identify evidence, and draft a diagnostic summary; Hands-on workshop: defining a scheduled health check, then evaluating its scope, permissions, and validation criteria.

Target Audience

This training is intended for both individuals and companies—large or small—seeking to train their teams in new, advanced IT technology or to acquire specific business knowledge or modern methods.

Entry-Level Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency level across various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certificate

A certificate will be issued to each trainee who has completed the entire training program.