Cloud Sparks Agentic Infrastructure for the Autonomous Enterprise on Google Training

Duration: **3 Day**

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Overview

This course provides a technical guide to enable Solution Architects to shift from building isolated chatbots to deploying persistent, Gemini Enterprise-enabled AI workers on Google Cloud. Participants will master agentic memory design, API-driven tool orchestration, and infrastructure governance using the Google Cloud Agent Platform—including the Vertex AI Reasoning Engine for persistent state management and Agent Extensions for departmental integration. Learners will move beyond 'Instructional Hope' to technical enforcement, building the 'Paved Road' required to orchestrate multi-agent fl eets and secure non-human identities.

Prerequisites

We recommend that attendees of this course have:

- Completion of Organising for AI Success
- Foundational knowledge of Google Cloud (VPC, IAM, Cloud Run)
- Helpful to be familiar with Python basics, REST API structures, and RAG concept

Target Audience

This course is designed for:

- Enterprise Architects who need to build a scalable, secure backbone for persistent, Gemini Enterprise-enabled AI workers
- Systems Integrators tasked with connecting AI to legacy ERP/CRM data via secure, cross-departmental tool orchestration using the Google Cloud Agent Platform
- IT Directors who need to move from 'Project Thinking' to 'Platform Thinking' to manage a global fleet of autonomous agents while maintaining governance and scalability

What You Will Learn

By the end of this course, learners will be able to:

- Diagnose agency gaps by identifying conversational habits and mapping structural frictions
- Architect persistent, context-aware reasoning loops using the Build Tier
- Enforce Zero Trust patterns and runtime protections via the Govern Tier
- Mitigate reasoning drift and measure ROI using the Optimise & Scale Tiers
- Deploy persistent, Gemini Enterprise-enabled AI workers on Google Cloud
- Design agentic memory and tool orchestration
- Govern infrastructure using the Google Cloud Agent Platform