



Deploying Gemini Enterprise

This course starts with leading a deployment engagement and change management. You will then learn the architectural design of Gemini Enterprise, including special networking and security considerations, identity integration, provisioning and customization. You will learn how to connect various data stores as well as configure OAuth, track usage with observability and learn how to surface agents through Gemini Enterprise.

 **DURATION**
2 days

 **LEVEL**
Advanced

 **FORMAT**
Instructor Led

What you'll learn

- Explain the end-to-end architecture of Gemini Enterprise, including critical networking, security, and identity integration components.
- Deploy and customize a Gemini Enterprise environment according to organizational requirements.
- Integrate Gemini Enterprise with various data stores and configure secure access using protocols like OAuth.
- Manage and monitor the Gemini Enterprise platform by leveraging observability and usage tracking tools.
- Surface and manage agents through the Gemini Enterprise platform to extend its capabilities.



Overview	9 modules · 2 labs
Who this course is for	• IT Administrators & System Administrators • Cloud Engineers & Platform Engineers • Solutions Architects & Enterprise Architects
Products	Gemini Enterprise, Agent Designer, Model Armor, VPS-SC, ADK
Prerequisites	Foundations of Gemini Enterprise Course, Google Cloud Associate Cloud Engineer or equivalent experience
Not covered	Developing Agents

Module 01 Leading a Gemini Enterprise Deployment Engagement

Topics	• Conveying impact • Change management • Planning your solutions • Sponsorship and engagement • Organizational analysis: selecting early adopters • Communications and training • Best practices and addressing potential risks
Objectives	• Discuss change management best practices, such as the importance of a strong executive sponsor. • Describe a 3-phase rollout approach for Gemini Enterprise deployments. • List strategies for selecting an early adopter rollout scope. • Discuss communication and training strategies to grow adoption across an enterprise. • Identify potential risks and mitigations from previous deployments.



Module 02 Architecture overview

- Objectives
- Recall the overall architecture Gemini Enterprise
 - Identify how to provision Gemini Enterprise in your environment
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Module 03 Networking Considerations

- Objectives
- Recall the overall architecture of VPCs
 - Explain the technical networking considerations agentic workloads
 - Identify network security implications of running agentic or generative AI workloads
 - Describe the various networking features to harden your environment including VPC-SC and Context Aware Access
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Module 04 User Identity and Provisioning

- Objectives
- Use the various Gemini Enterprise IAM roles, as well as build custom roles
 - Compare the various Identity provider integration with Gemini Enterprise
 - Contrast modern authentication protocols and describe how SAML and OIDC works
 - Implement Workforce Identity Federation in Gemini Enterprise
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Module 05 Security Considerations

- Objectives
- Explain the four security pillars for Gemini Enterprise
 - Configure Model Armor using specific input and output templates
 - Identify key networking and security requirements for deployment
 - Establish compliance and access guardrails using Organization Policies and encryption keys
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Module 06 Data Stores and Actions

- Objectives
- Describe the architecture Gemini Enterprise uses to access federated data
 - Explain how the Model Context Protocol (MCP) standardizes agent-to-data communication
 - Evaluate data integration strategies to select the optimal connection method for a given use case
 - Configure data stores and OAuth to enable assistant actions, such as drafting emails or creating calendar events



Module 07 Configuration and Customization

- Objectives**
- Customize the Gemini Enterprise homepage UI, assistant behavior, and search controls
 - Manage end-user features and public or private knowledge graphs.
 - Configure Gemini Enterprise access by enabling a hosted web app or utilizing API code snippets
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Module 08 Observability

- Objectives**
- Analyze agent dependencies, tool interactions, and token consumption
 - Apply Sensitive Data Protection (SDP) to redact Personally Identifiable Information (PII)
 - Evaluate agent usability, security, and cost metrics using Cloud Monitoring and Cloud Logging dashboards
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Module 09 Adding Agents to Gemini Enterprise

- Objectives**
- Differentiate between no-code Agent Designer tools and ADK for workflow automation
 - Register ADK or other open-framework agents to the Agent Runtime to surface them within Gemini Enterprise

