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SELF-STUDY ADDENDUM

SL 4H



Self-Study Addendum — SL 4H AI Engineer

Palantir Developers Reference Library

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
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Wiesbaden, Germany

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NOT REQUIRED FOR QUALIFICATION. This addendum provides curated references from the Palantir Developers YouTube channel ([@PalantirDevelopers](#)) for personnel who want to deepen their MSS technical skills beyond the core curriculum. All content is publicly available.

Companion Resource — Ontologize Channel: [@Ontologize](#) — Official Palantir training partner. 68 indexed video walkthroughs covering Foundry and AIP features. Full catalog with TM cross-references: [source_material/ontologize_youtube/README.md](#)

HOW TO USE THIS ADDENDUM

Videos are grouped by topic and ordered from foundational to advanced within each group. Start with the group most relevant to your current work. Videos marked in the TM with inline NOTE callouts are flagged here as well for easy cross-reference.

NEW DOCTRINE REFERENCES (MARCH 2026)

The following doctrine sections were added to TM-40H this session. Review after the corresponding TM chapter:

- **ADP 3-13 AI/ML Framing** — Doctrinal context for AI/ML in operational information environments. See TM-40H concepts guide.
 - **PED-to-Pipeline Mapping** — Processing, Exploitation, and Dissemination mapped to AIP Logic pipeline stages. See TM-40H concepts guide.
 - **UDRA Governance** — Unified Data Reference Architecture governance framework for AI data access and controls. See TM-40H concepts guide.
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GROUP 1 — AIP PLATFORM AND ARCHITECTURE OVERVIEW

Video	What it Covers	Relevant TM Chapter
<i>Launching Build with AIP</i>	Introduction to the Build with AIP initiative and overall AIP platform direction	Ch 2
<i>Product Launch: AI FDE DevCon 3 (inline NOTE in TM)</i>	AI-driven Feature Development Environment — platform toolchain for code-assisted AI product development	Ch 2
<i>Product Launch: AI FDE DevCon 5</i>	Updated AI FDE capabilities and developer experience enhancements	Ch 2
<i>You Suck at AIP</i>	Common AIP engineering mistakes and how to avoid them — blunt, practical	Ch 2, Ch 3
<i>Building Enterprise Autonomy with Shyam Sankar, CTO</i>	Strategic framing on enterprise AI autonomy from Palantir's CTO	Ch 2, Ch 9

GROUP 2 — RAG ARCHITECTURE AND RETRIEVAL

Video	What it Covers	Relevant TM Chapter
<i>AIP with Jeg: Adding RAG to a Simple Notes Application (inline NOTE in TM)</i>	Step-by-step RAG pipeline build — ingestion, retrieval, grounding	Ch 5-2
<i>Building with Palantir AIP: Logic Tools for RAG/OAG (inline NOTE in TM)</i>	AIP Logic tools for RAG and Ontology-Augmented Generation	Ch 5-2
<i>Building with Palantir AIP: Data Tools for RAG/OAG (inline NOTE in TM)</i>	Data preparation and transform tools for RAG/OAG pipelines	Ch 5-2
<i>Build with AIP: Semantic Search</i>	Semantic search capabilities within the AIP platform	Ch 5-3
<i>Building with Palantir AIP: Semantic Search (inline NOTE in TM)</i>	AIP semantic search implementation walkthrough	Ch 5-3
<i>Building with Palantir AIP: Advanced Search</i>	Advanced retrieval patterns beyond basic semantic search	Ch 5-3

Video	What it Covers	Relevant TM Chapter
<i>Building with Palantir AIP: Ontology Software Development Kit</i>	OSDK integration patterns for Ontology-grounded AI pipelines	Ch 5-4

GROUP 3 — AIP EVALS, TESTING, AND AUTOMATION

Video	What it Covers	Relevant TM Chapter
<i>Palantir AIP Evals Feedback to Fix (inline NOTE in TM)</i>	AIP Evals framework — structured feedback loops for AI output quality improvement	Ch 8
<i>Chad & Colton Operationalizing AI with Palantir AIP Evals (inline NOTE in TM)</i>	Operationalizing eval-driven automation — moving from manual review to systematic gating	Ch 8, Ch 9
<i>Product Launch: Eval-Driven Automation in AIP DevCon 2 (inline NOTE in TM)</i>	Product-level introduction to eval-driven automation as a platform capability	Ch 6-2, Ch 8

GROUP 4 — AGENT STUDIO AND AGENT ARCHITECTURE

Video	What it Covers	Relevant TM Chapter
<i>Build with AIP: AIP Assist</i>	AIP Assist agent capabilities and configuration	Ch 4
<i>Product Launch: AIP Agents and Ontology-MCP DevCon 4 (inline NOTE in TM)</i>	AIP Agent integration with Ontology-MCP for Ontology-aware agent tool use	Ch 4-4
<i>AIP Agents x HelmGuard AI: Function-Backed Agent Context DevCon 2</i>	Using function-backed context in AIP agents — practical agent tool design	Ch 4-2
<i>ElevenLabs: Ontology-Driven Voice Agents DevCon 2</i>	Ontology-driven agent design demonstrated through a voice agent use case	Ch 4
<i>AIP Logic x AT&T for Automating Operational Support DevCon 2</i>	Real-world AIP Logic automation at scale for operational support workflows	Ch 3, Ch 4

GROUP 5 — PRODUCTION DEPLOYMENT, OBSERVABILITY, AND SECURITY

Video	What it Covers	Relevant TM Chapter
<i>Chad & Bennett Observability with Palantir AIP (inline NOTE in TM)</i>	Monitoring and observability tooling for AIP workflows in production	Ch 9-3
<i>Chad & Arnav Privacy & Security with Palantir AIP (inline NOTE in TM)</i>	Privacy controls, data handling boundaries, and security configuration for AIP	Ch 6-4
<i>Product Launch: AIP Deployment at Scale DevCon 3</i>	Platform-level AIP deployment capabilities for enterprise-scale production systems	Ch 9
<i>Product Launch: DevOps for AI Products DevCon 2</i>	DevOps practices adapted for AI product delivery — CI/CD, monitoring, governance gates	Ch 9
<i>Deep Dive: Code-Based AI Development with Ontology (inline NOTE in TM)</i>	Python-based AI development using the Ontology as the data layer	Ch 7

GROUP 6 — COMPUTE MODULES AND STREAMING PIPELINES

Video	What it Covers	Relevant TM Chapter
<i>AIP with Jeg: Building a Streaming Ingestor with Compute Modules</i>	Building a real-time streaming ingestor using Compute Modules	Ch 7-2
<i>Build with AIP: Compute Modules</i>	Compute Modules capabilities and use cases for AI data pipelines	Ch 7

GROUP 7 — AUTOMATION AND PROCESS MINING

Video	What it Covers	Relevant TM Chapter
<i>Product Launch: Autopilot DevCon 3</i>	Autopilot — automated AI-driven workflow execution	Ch 3, Ch 9
<i>Product Launch: Enterprise Automation DevCon 5</i>	Enterprise automation platform capabilities across organizational boundaries	Ch 9
<i>Building with Palantir AIP: AI-Powered Process Mining</i>	Using AI to analyze and optimize operational processes — relevant to workflow design	Ch 3
<i>Chad & Craig Data Migrations with AI FDE</i>	Using AI FDE to accelerate data migration and transformation work	Ch 7
<i>Build with AIP: ERP HyperAuto</i>	AIP-powered automation applied to ERP systems — enterprise automation pattern	Ch 3

GROUP 8 — DOMAIN AND VERTICAL USE CASES

Video	What it Covers	Relevant TM Chapter
<i>Building with Palantir AIP: Customer Service Engine</i>	End-to-end AI customer service engine — agent design, tool use, and human escalation	Ch 4
<i>Build with AIP Customer Service Engine</i>	Alternative walkthrough of the customer service engine use case	Ch 4
<i>Building with Palantir AIP: Procurement</i>	AI-powered procurement automation — relevant to logistics and sustainment AI use cases	Ch 3
<i>Chad & Agathe How Palantir Powers AI Automation Across Procurement</i>	Procurement AI automation at scale — operational workflow design	Ch 3
<i>Chad & Chris Tariff Savings and Compliance through Palantir AIP</i>	AIP-driven compliance and cost analysis — structured workflow pattern	Ch 3
<i>AIP for Piping and Instrumentation Diagram (P&ID) Analysis</i>	Vision-capable AI applied to technical diagram analysis	Ch 5

Video	What it Covers	Relevant TM Chapter
<i>AIP for Medical Record Management Tackling VHA Healthcare Provider Burnout</i>	AIP applied to high-stakes document analysis with human review requirements	Ch 6

GROUP 9 — AIP NOW (LIVE DEMONSTRATIONS)

Video	What it Covers	Relevant TM Chapter
<i>AIP Now: AIP Response with Vision</i>	Live demo of vision-capable AIP response — multi-modal AI inference	Ch 5
<i>AIP Now: Connected Construction</i>	AIP applied to real-time construction operations monitoring	Ch 3
<i>AIP Now: Dynamic Scheduling</i>	AIP-driven dynamic scheduling — optimization with AI in the loop	Ch 3
<i>AIP Now: Material Harmonization</i>	AIP applied to supply chain material harmonization — logistics pattern	Ch 3

USAREUR-AF Operational Data Team