SELF-STUDY ADDENDUM

SL 4L

Self-Study Addendum — SL 4L Software Engineer

Palantir Developers Reference Library

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
(USAREUR-AF)
Wiesbaden, Germany

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26 MARCH 2026

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PALANTIR DEVELOPERS REFERENCE LIBRARY

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 or the chapter you just completed. Selected videos are also cited inline within SL 4L where content most directly reinforces a specific section.

CODE REPOSITORY FUNDAMENTALS

Video	What it Covers	Relevant TM Chapter
Code Repositories | How to Write Data Transformations in Palantir Foundry	Core procedure for writing data transforms in Foundry Code Repositories — the foundation of all pipeline work on MSS	Ch 4 (Platform SDK)
Code Repositories | How to Write Incremental Data Transforms in Palantir Foundry	Incremental transform pattern using watermarks to process only new or changed data — reduces compute cost vs. full-dataset rewrites	Ch 4 (Platform SDK)

Video	What it Covers	Relevant TM Chapter
Code Repositories | *How to Create a Python Library in Palantir Foundry*	How to package shared transform logic as a reusable Python library within Foundry	Ch 4 (Platform SDK)
Code Repositories | *How to Consume a Library in Palantir Foundry*	Importing and using a Foundry Python library in a transform or pipeline	Ch 4 (Platform SDK)
Code Repositories | *How to Parse Excel Files into a Usable Dataset in Palantir Foundry*	Ingesting and parsing Excel files into Foundry datasets — common for feeding data from external Army reporting tools	Ch 4 (Platform SDK)
Code Repositories | *How to Use Data Expectations in Palantir Foundry*	Foundry's built-in Data Expectations feature for data quality assertions within a pipeline	Ch 8 (CI/CD)
Code Repositories | *How to Unit Test PySpark in Palantir Foundry*	PySpark unit testing patterns applicable to both transform pipelines and Python-based FOO	Ch 5 / Ch 8
Code Repositories | *Reviewing Code and Best Practices*	Code review standards within Foundry repositories	Ch 8 (CI/CD)
Code Repositories | *Development Process and Pipeline Craftsmanship in Palantir Foundry*	Full development lifecycle for Foundry code resources — branching strategy, PR discipline, promotion	Ch 8 (CI/CD)
Code Repositories | *Best Practices for Creating Pull Requests in Palantir Foundry*	PR best practices in Foundry code repositories, reinforcing the C2DAO code review workflow	Ch 8 (CI/CD)

FUNCTIONS ON OBJECTS (FOO)

Video	What it Covers	Relevant TM Chapter
Functions | *Getting Started*	Introductory walkthrough of Foundry Functions — repository structure, basic function authoring, Ontology integration	Ch 5 (FOO)
Functions | *Unit Testing Functions on Objects in Palantir Foundry*	Unit testing patterns for FOO, including mock object construction and Jest test setup	Ch 5 (FOO)

Video	What it Covers	Relevant TM Chapter
Functions | How to Locate and Edit Objects from your Ontology in Foundry	How to programmatically locate and interact with Ontology Objects in a code context	Ch 5 / Ch 2

OSDK AND PLATFORM SDK

Video	What it Covers	Relevant TM Chapter
Product Launch: Rapid Software Development with OSDK 2.0	OSDK 2.0 release — developer experience improvements, simplified client setup, improved TypeScript type generation	Ch 2 (OSDK Fundamentals)
Product Launch: Build Operational Apps with Your Developer Toolkit of Choice	Overview of Palantir's developer toolkit for building operational applications	Ch 2 (OSDK Fundamentals)
Building with Palantir AIP: the Ontology Software Development Kit	OSDK in action for AIP-integrated applications — practical walkthrough of authentication and object query patterns	Ch 2 (OSDK Fundamentals)
Ontology SDK x Lennar for Quality Inspection	Production case study of OSDK for quality inspection workflows — real-world OSDK architecture decisions	Ch 2 / Ch 3
Palantir Ontology Overview	Foundational overview of the Palantir Ontology model — useful context for all OSDK chapters	Ch 2 (OSDK Fundamentals)
Platform APIs x SLB for Digital Sustainability	Production case study using Foundry Platform APIs at enterprise scale	Ch 4 (Platform SDK)
Product Launch: Media, Real-Time Updates, and Expressive Compute in OSDK | DevCon 2	WebSocket-based real-time object updates and expressive compute patterns introduced in OSDK	Ch 3 (Subscriptions)
Product Launch: Edge Embedded Ontology | DevCon 2	Edge-embedded Ontology for Ontology queries without central infrastructure — specialized deployment pattern	Ch 3 (OSDK Advanced)

FOUNDRY REFERENCE PROJECT

Video	What it Covers	Relevant TM Chapter
Foundry Reference Project | Structure	Walks through the canonical Foundry Reference Project structure — OSDK, Ontology, and pipeline organization	Ch 1 / Ch 2
Foundry Reference Project | Data Pipeline	The data pipeline layer of the Foundry Reference Project	Ch 4 (Platform SDK)
Foundry Reference Project | Ontology	The Ontology layer — Functions, Object Types, and computed properties in a production Ontology	Ch 2 / Ch 5
Foundry Reference Project | Apps	The application layer — current recommended patterns for Workshop-based and OSDK-backed apps	Ch 7 (Slate/App migration)

SECURITY AND COMPLIANCE

Video	What it Covers	Relevant TM Chapter
Cipher | How to Encrypt Data in Foundry with Cipher	Foundry's Cipher tool for field-level encryption of sensitive data	Ch 9 (Security)
Security | How to Debug a User's Access to a File	Diagnostic procedure for investigating access control issues in Foundry	Ch 9 (Security)
Security | How to use Projects to Help Enable your Business to Scale	How Foundry Projects structure access governance at scale — relevant to CBAC architecture	Ch 9 (Security)
Platform Administration | Setting up SSO in Palantir Foundry	SSO configuration for the Foundry platform	Ch 9 (Security)
Chad & Arnav | Privacy & Security with Palantir AIP	Privacy and security considerations for AIP-integrated applications	Ch 9 (Security)

PIPELINE AND SCHEDULES

Video	What it Covers	Relevant TM Chapter
Schedules | Creation, Configuration, and Execution in Palantir Foundry	Setting up automated pipeline schedules in Foundry	Ch 4 / Ch 8
Schedules | Management, Metrics, and Triggers in Foundry	Managing schedule health, metrics, and trigger conditions	Ch 8 (CI/CD)
Schedules | Separating Data Ownership within a Pipeline in Foundry	Data stewardship and ownership patterns for pipeline scheduling	Ch 4 / Ch 8
Pipeline Monitoring | How to Start Monitoring Data Health in Palantir Foundry	Foundational pipeline monitoring and data health tracking	Ch 8 (CI/CD)
Pipeline Monitoring | How to Monitor Health Across a Pipeline in Palantir Foundry	End-to-end pipeline health monitoring across multi-step data flows	Ch 8 (CI/CD)

ADVANCED PATTERNS (MCP, EDGE, STREAMING)

Video	What it Covers	Relevant TM Chapter
Code in Production: Lennar x MCP | DevCon 3	Model Context Protocol (MCP) integration with Foundry in a production deployment — emerging pattern for LLM tool use against the Ontology	Ch 3 (OSDK Advanced)
Product Launch: AIP Agents and Ontology-MCP | DevCon 4	AIP Agents using MCP to interact with the Ontology — extends the MCP pattern above	Ch 3 (OSDK Advanced)
Deep Dive: Code-Based AI Development with Ontology	Code-based development patterns extending traditional OSDK usage into AI-integrated workflows	Ch 2 / Ch 3
Developer Deskside | Building Apps on Kafka Streaming Data in Palantir Foundry	Building Foundry applications that consume Kafka streaming data	Ch 4 (Platform SDK)
Deep Dive: Interoperability at Scale with the Multimodal Data Plane | DevCon 5	Cross-platform data interoperability at enterprise scale — senior-level architecture content	Ch 3 / Ch 8

CASE STUDIES IN PRODUCTION

Video	What it Covers	Relevant TM Chapter
Build with Palantir Developers	Overview of the developer ecosystem and production deployment patterns	General
7Bridges: AIP for Automated Invoice Auditing	Production case study: AIP-integrated automation in a complex operational workflow	Ch 3 / Ch 5
Anduril: Ontology: Launchpad for Operations	Defense-sector case study of the Ontology as an operational data platform — highly relevant to USAREUR-AF context	Ch 2 / Ch 3
Code in Production: Process Orchestration x Eaton | DevCon 4	Production case study on workflow automation and orchestration	Ch 6 / Ch 8
Code in Production: AI FDE x Lear & Trinity Industries | DevCon 4	Production case study on AI-integrated developer workflows	Ch 3 / Ch 5
Code in Production: Gallatin x Observability | DevCon 3	Production observability and monitoring for Foundry applications	Ch 8 (CI/CD)

ANALYTICS TOOLS (SWE CONTEXT)

Video	What it Covers	Relevant TM Chapter
Quiver | How to Build an Analysis in Palantir Foundry	Building analytical workflows in Quiver — useful context when SWE output feeds analytical consumers	Ch 4 / General
Quiver | How to Use Parameters in Your Analysis	Parameterized analysis in Quiver — relevant to building flexible analytical products	Ch 4 / General

USAREUR-AF Operational Data Team