SELF-STUDY ADDENDUM

SL 5O

USAREUR-AF

Self-Study Addendum — SL 5O: Advanced Platform Engineer

Palantir Developers Reference Library

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
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SELF-STUDY ADDENDUM — SL 5O: ADVANCED PLATFORM ENGINEER

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.

HOW TO USE THIS ADDENDUM

SL 5O builds directly on SL 4O. The full SL 4O addendum (located at `../self_study/SELF_STUDY_TM40O_PLATFORM_ENGINEER.md`) remains relevant — all videos in that addendum apply at SL 5O level. This addendum adds videos specifically relevant to SL 5O's advanced and enterprise-level content: multi-cluster fleet management, platform reliability engineering, RMF/ATO automation, developer experience engineering, and platform observability at scale.

Videos are grouped by topic. Within each group, content is ordered from foundational to advanced.

GROUP 1 — FLEET MANAGEMENT AND ADVANCED INFRASTRUCTURE

Video	What it Covers	Relevant TM Chapter
Product Launch: Edge Embedded Ontology | DevCon 2	Edge-embedded Ontology for Ontology queries without central infrastructure — directly relevant to Advanced Platform Engineers managing edge cluster fleets and DDIL-resilient deployments across the USAREUR-AF AOR.	Ch 2 (Multi-Cluster Fleet Management)
Deep Dive: Interoperability at Scale with the Multimodal Data Plane | DevCon 5	Cross-platform data interoperability at enterprise scale — senior-level architecture content for Advanced Platform	Ch 2 (Fleet Topology)

Video	What it Covers	Relevant TM Chapter
	Engineers managing fleet-wide data plane infrastructure across classification boundaries.	
Deep Dive: Optimizing Data Pipelines with Iceberg Tables and Lightweight Compute | DevCon 4	Foundry Iceberg table format and lightweight compute — relevant to fleet-wide storage optimization and compute resource management across hub and edge clusters.	Ch 2, Ch 3 (Capacity Planning)
Developer Deskside | Building Apps on Kafka Streaming Data in Palantir Foundry	Building applications on Kafka streaming data — context for Advanced Platform Engineers provisioning and managing streaming infrastructure at fleet scale.	Ch 2 (Multi-Cluster Fleet Management)

GROUP 2 — OBSERVABILITY, MONITORING, AND RELIABILITY

Video	What it Covers	Relevant TM Chapter
Code in Production: Gallatin x Observability | DevCon 3	Production observability and monitoring case study — directly applicable to building the federated observability stack described in Chapter 6 (distributed tracing, log aggregation, metric federation).	Ch 6 (Platform Observability at Scale)
Pipeline Monitoring | How to Start Monitoring Data Health in Palantir Foundry	Foundational pipeline monitoring — applies to Advanced Platform Engineers establishing baseline health monitoring across the fleet before building advanced SLO-based alerting.	Ch 3 (SLOs and SLIs), Ch 6
Pipeline Monitoring | How to Monitor Health Across a Pipeline in Palantir Foundry	End-to-end pipeline health monitoring across multi-step data flows — relevant to cross-cluster pipeline observability and federated alerting strategies.	Ch 3 (Platform Reliability Engineering), Ch 6
Schedules | Management, Metrics, and Triggers in Foundry	Managing schedule health and metrics at scale — relevant to fleet-wide workload scheduling governance and error budget tracking.	Ch 3 (Error Budgets and Decision Making)

GROUP 3 — SECURITY, COMPLIANCE, AND RMF AUTOMATION

Video	What it Covers	Relevant TM Chapter
Cipher | How to Encrypt Data in Foundry with Cipher	Field-level encryption for sensitive data — relevant to Advanced Platform Engineers implementing fleet-wide encryption policies and cross-domain data protection controls for continuous compliance.	Ch 4 (RMF/ATO Automation)
Security | How to use Projects to Help Enable your Business to Scale	Foundry Projects for access governance at scale — applicable to fleet-wide access control architecture and automated policy distribution across clusters.	Ch 4 (STIG Automation)
Security | How to Debug a User's Access to a File	Diagnostic procedure for access control issues — useful for Advanced Platform Engineers building self-service access troubleshooting into the developer experience portal.	Ch 5 (Self-Service Portal Design)
Platform Administration | Setting up SSO in Palantir Foundry	SSO configuration — relevant to fleet-wide identity and authentication infrastructure that must function consistently across hub and edge clusters.	Ch 4 (Continuous Compliance)
Chad & Arnav | Privacy & Security with Palantir AIP	Privacy and security architecture for AIP systems — context for Advanced Platform Engineers securing AI workload infrastructure across classification domains.	Ch 4 (RMF/ATO Automation)

GROUP 4 — DEVELOPER EXPERIENCE AND PLATFORM PRODUCT

Video	What it Covers	Relevant TM Chapter
Product Launch: Developer Experience | DevCon 5	Developer experience improvements from DevCon 5 — directly relevant to Advanced Platform Engineers engineering golden paths and self-service portals described in Chapter 5.	Ch 5 (Developer Experience Engineering)
Product Launch: Rapid Software Development with OSDK 2.0	OSDK 2.0 developer experience — context for Advanced Platform Engineers understanding the application development workflow their platform must support and accelerate.	Ch 5 (Golden Paths)

Video	What it Covers	Relevant TM Chapter
Code Repositories | Development Process and Pipeline Craftsmanship in Palantir Foundry	Full development lifecycle and pipeline craftsmanship — foundational reference for designing the golden path CI/CD workflows that application teams consume.	Ch 5 (Golden Paths)
Code Repositories | Best Practices for Creating Pull Requests in Palantir Foundry	PR best practices — context for enforcing code review standards in fleet-wide CI/CD pipeline templates.	Ch 5 (Developer Experience Engineering)

GROUP 5 — STRATEGIC PLATFORM LEADERSHIP

Video	What it Covers	Relevant TM Chapter
Akshay Krishnaswamy Opening Remarks | DevCon 5	Strategic overview of Palantir's operational AI direction — context for Advanced Platform Engineers planning fleet evolution and infrastructure roadmaps that support emerging platform capabilities.	Ch 5 (Developer Productivity Measurement)
Building Enterprise Autonomy with Shyam Sankar, CTO	CTO perspective on enterprise autonomy — strategic context for senior Platform Engineers advising leadership on infrastructure investment and platform strategy.	General
Product Launch: Hivemind | DevCon 5	Palantir Hivemind for multi-domain decision support and autonomous task execution — relevant for Advanced Platform Engineers planning infrastructure to support next-generation AI workloads.	Ch 2 (Fleet Topology)
Anduril: Ontology: Launchpad for Operations	Defense-sector Ontology as operational data platform — closely analogous to USAREUR-AF MSS. Illustrates fleet-scale infrastructure decisions in a military operational context.	General
Code in Production: Process Orchestration x Eaton | DevCon 4	Production workflow orchestration at scale — case study relevant to fleet-wide pipeline orchestration and deployment automation patterns.	Ch 2, Ch 5

FULL SL 4O ADDENDUM REFERENCE

All video groups from the SL 4O Self-Study Addendum remain applicable at SL 5O:

- **CI/CD Pipeline and Code Repository Operations** — foundational for Chapter 5 (Golden Paths) and fleet-wide pipeline templates
- **Security, Compliance, and Access Control** — directly supports Chapter 4 (RMF/ATO Automation) and Chapter 6 (Observability)
- **Pipeline Monitoring and Scheduling** — supports Chapter 3 (Platform Reliability Engineering) and Chapter 6 (Alerting Strategy)
- **Platform Architecture and Advanced Patterns** — supports Chapter 2 (Fleet Management) and cross-domain infrastructure
- **Case Studies and Platform Context** — general fleet-scale platform leadership context

See `../self_study/SELF_STUDY_TM40O_PLATFORM_ENGINEER.md` for the full list.

USAREUR-AF Operational Data Team