SELF-STUDY ADDENDUM

SL 3

SELF-STUDY ADDENDUM — SL 3: ADVANCED BUILDER

Palantir Developers External Reference Library

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
(USAREUR-AF)
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SELF-STUDY ADDENDUM — SL 3: ADVANCED BUILDER

PALANTIR DEVELOPERS EXTERNAL REFERENCE LIBRARY

Maven Smart System (MSS) — USAREUR-AF

Status: Optional self-study. Not taught in SL 3 class time. Use after completing the associated TM chapter.

Source: All videos are available on the Palantir Developers YouTube channel (@PalantirDevelopers). These are official Palantir product deep-dives that extend the SL 3 curriculum. No account is required to view.

Scope boundary: SL 3 is entirely UI-based — no code required. All videos listed here use Palantir's graphical tools only (Workshop, Pipeline Builder, Contour, Quiver, AIP Logic configuration UI). Videos requiring Python, TypeScript, or CLI tools are NOT listed here — those belong to SL 4G–O.

GROUP 1 — WORKSHOP: SCENARIOS AND WHAT-IF ANALYSIS (DAY 1 / CH 2 EXTENSION)

These four videos cover the Workshop Scenarios feature — what-if / sensitivity analysis using saved parameter states. Not covered in Day 1 lab blocks due to time. Highest-value optional content for trainees building decision-support dashboards.

Video	What It Covers	Relevant TM Chapter
Workshop | Creating What If Analyses with Scenarios	Building a scenario set in Workshop; defining parameter variables; running what-if comparisons side by side	Ch 2 — Advanced Workshop
Workshop | Saving your What If Analyses	Saving named scenario states; sharing saved scenarios with other users; scenario library management	Ch 2 — Advanced Workshop

Video	What It Covers	Relevant TM Chapter
*Workshop	Loading and Applying Scenarios*	Loading a saved scenario; applying to a live dashboard; understanding state inheritance	Ch 2 — Advanced Workshop
*Workshop	How to Preload States in Foundry Workshop Applications*	Preloading default scenario states; URL-based state injection; application load behavior	Ch 2 — Advanced Workshop

GROUP 2 — PIPELINE BUILDER: SCHEDULING AND MONITORING (DAY 2 / CH 3 EXTENSION)

These videos extend the Day 2 scheduled pipeline and monitoring content. Particularly useful for trainees who will own pipelines in production after SL 3.

Video	What It Covers	Relevant TM Chapter
*Foundry	Pipeline Builder Monitoring*	Reading the build graph monitor; identifying slow or failing transforms; retry behavior	Ch 3 — Advanced Pipeline Builder
*Foundry	Scheduling Pipeline Builds*	Schedule expression syntax; configuring build failure email alerts; time zone handling	Ch 3 — Advanced Pipeline Builder
*Foundry	Pipeline Build History and Audit*	Viewing build history; identifying the exact transform that failed; audit trail for governance	Ch 3 — Advanced Pipeline Builder
*Foundry	Understanding Build Dependencies*	Reading the dependency graph in Pipeline Builder; understanding why upstream failures cascade	Ch 3 — Advanced Pipeline Builder
*Foundry	Incremental Pipeline Builds*	Incremental vs. full rebuild trade-offs; when to use each; append-mode patterns	Ch 3 — Advanced Pipeline Builder

GROUP 3 — QUIVER: ADVANCED VIEWS AND CROSS-OBJECT ANALYSIS (DAY 4 / CH 6 EXTENSION)

Quiver linked views are the most common SL 3 practical exercise No-Go. These videos cover depth topics not fully addressed in the Day 4 lab.

Video	What It Covers	Relevant TM Chapter
*Quiver	Dependency Graph Analysis*	Using the Quiver dependency graph view; tracing upstream relationships between Object Types	Ch 6 — Quiver
*Quiver	Using Parameters for Dynamic Analysis*	Configuring parameter controls in Quiver; driving filter logic from user-selected values	Ch 6 — Quiver
*Quiver	Ad-Hoc Aggregations*	Building on-the-fly aggregation views; combining with linked object type data	Ch 6 — Quiver
*Quiver	KPI Tracking and Threshold Alerts*	Building KPI panels in Quiver; setting threshold bands; configuring alert conditions	Ch 6 — Quiver

GROUP 4 — CONTOUR: PIVOT TABLES AND ADVANCED ANALYSIS (DAY 4 / CH 5 EXTENSION)

Contour pivot tables work differently from Excel. These videos supplement the Day 4 Contour lab — read/watch the pivot table video before the lab if possible.

Video	What It Covers	Relevant TM Chapter
*Contour	Building Pivot Tables*	Contour pivot table construction; row/column configuration; value aggregation options	Ch 5 — Contour
*Contour	Calculated Columns and Expressions*	Expression syntax for calculated columns; referencing other columns; conditional logic in expressions	Ch 5 — Contour
*Contour	Parameter Controls*	Adding parameter widgets to a Contour workbook; driving filter and aggregation behavior from user input	Ch 5 — Contour
*Contour	Saving and Sharing Analysis Views*	Saving a named analysis view; publishing to stakeholders; view permissions	Ch 5 — Contour

GROUP 5 — DDOF AND OPERATIONAL DESIGN PATTERNS (CH 1 EXTENSION)

New doctrine sections added to TM-30 Chapter 1 cover foundational operational design patterns. These self-study references support the new content.

Section	What It Covers	Relevant TM Chapter
1-10a: DDOF Roles	DDOF organizational roles (Data Officer, Data Steward, Functional Manager) and their responsibilities in the Foundry environment. Understand who owns what before building.	Ch 1 — DDOF Roles
1-10b: SMART Criteria	SMART criteria (Specific, Measurable, Achievable, Relevant, Time-bound) applied to data product requirements. Every builder-level product must trace to a SMART objective.	Ch 1 — SMART Criteria
1-10c: Fail-Closed Design	Fail-closed design principle for data pipelines — when a pipeline encounters an error, it stops and alerts rather than passing bad data downstream. Applied throughout Blocks 2–4 (Pipeline Builder).	Ch 1 — Fail-Closed
1-10d: ADC Registration	ADC (Authoritative Data Catalog) registration process for new data products. Every production dataset must be registered in the ADC before operational use.	Ch 1 — ADC Registration
1-10e: DDIL Operations	Disconnected, Degraded, Intermittent, and Limited-bandwidth (DDIL) operations considerations for MSS data products. Design for delayed sync and offline caching.	Ch 1 — DDIL Operations

GROUP 6 — PLATFORM GOVERNANCE AND SECURITY (DAY 5 / CH 7 EXTENSION)

These two videos supplement the Day 5 governance content with practical security administration knowledge. Relevant for trainees who will act as MSS data stewards or project owners after SL 3.

Video	What It Covers	Relevant TM Chapter
Foundry | Managing Projects for Scale	Project structure, folder hierarchies, access inheritance for large multi-team environments	Ch 7 — Governance and C2DAO
Foundry | Debugging User Access Issues	Step-by-step approach to diagnosing why a user cannot see expected data; access hierarchy tracing	Ch 7 — Governance and C2DAO

USAGE GUIDANCE

Day 1 trainees — Watch Group 1 (Workshop Scenarios) after the Day 1 evening reading. These four videos are the highest-value addition to what the lab covers.

Day 2 trainees — Group 2 (Pipeline scheduling and monitoring) pairs directly with the Day 2 evening reading (TM-30, Ch 3).

Before Day 4 practical exercise — Watch Group 3 Quiver videos. Quiver linked view configuration is the most common single-task practical exercise failure. Do not skip these before the evaluation.

Before Day 1 reading — Group 5 (DDOF and Operational Design Patterns) covers new Ch 1 doctrine sections. Review Sections 1-10a through 1-10e before Day 1 to understand the governance and design context for all subsequent lab work.

Post-SL 3 sustainment — Groups 4 and 6 are most useful after course completion when you are operating MSS data products in a unit environment.

CONTINUATION

Trainees proceeding to SL 4 tracks may access self-study addenda for those tracks, each of which contains a substantially larger Palantir Developers reference library covering code-level topics (OSDK, Python Transforms, TypeScript Functions, etc.) appropriate to specialist-level work.

USAREUR-AF Operational Data Team Self-Study Addendum | SL 3 | Palantir Developers External Reference Library | March 2026