PalletVision
Deployment Options
Understanding Your Hosting & Data Residency Choices

Overview

PalletVision is designed with a clear separation between edge-based AI processing and cloud-based reporting. This document explains the two available deployment models so you can choose the option that best fits your organization's data residency, security, and operational requirements.

Architecture Overview

Regardless of deployment option, all AI processing happens locally — at your facility — on the on-premise Edge Server. Only small, annotated video clips are ever sent to the cloud. These clips are used exclusively for Accuracy Measurement and performance validation.
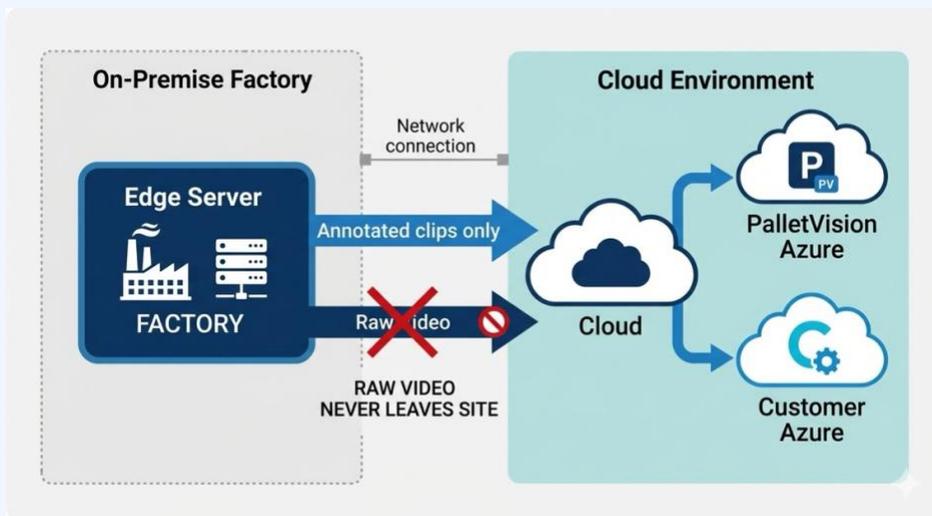

Figure 1: High-level architecture — AI stays on-premise; only clips go to the cloud.

On-Premise Edge Server — All AI inference and video processing runs locally at your facility. No raw video ever leaves your site.

Cloud (Reporting Only) — Only small, annotated video clips are stored in the cloud for Accuracy Measurements and performance validation.

Deployment Options

PalletVision offers two deployment models. Both options share the same core edge-AI architecture — the difference lies in **where the cloud application and annotated video clips are hosted.**

1	**PalletVision Cloud**
	Default Option · Multi-Tenant SaaS · Hosted on PalletVision Azure

This is our recommended default deployment. PalletVision hosts and manages the cloud application and video clip storage within our own Azure environment. Everything is configured, maintained, and secured by the PalletVision team so you can focus on operational insights from day one.
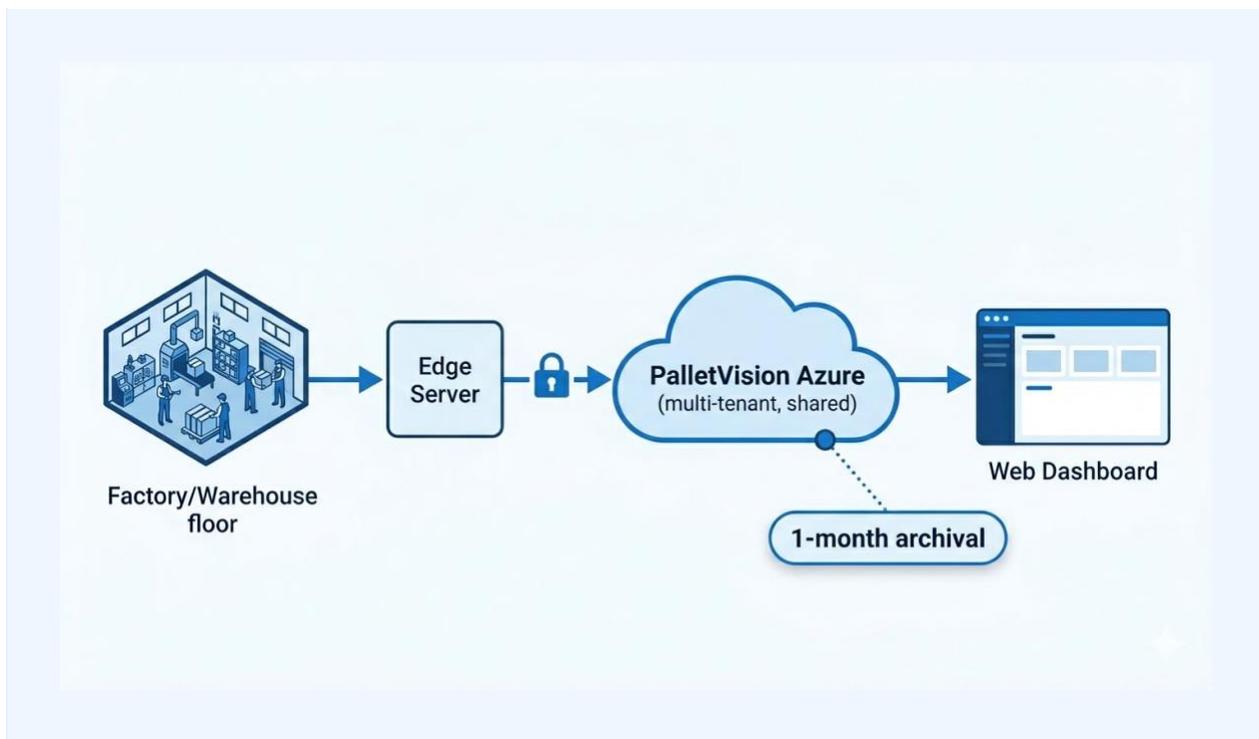

Figure 2: Option 1 — PalletVision Cloud (multi-tenant SaaS)

Hosting	PalletVision's Azure cloud environment
Tenancy	Multi-tenant SaaS (shared infrastructure)
Data Security	Encrypted video clips, tokenized access controls
Retention	1-month archival for annotated video clips
Setup	Fully managed by PalletVision — no IT configuration required
Best for	Organizations looking for the fastest time-to-value with minimal IT overhead

2	**Customer Cloud**
	Single-Tenant Deployment · Hosted on Your Azure Environment

For organizations with strict data residency or sovereignty requirements, PalletVision can deploy the full application stack into your own Azure tenant. Video clips are stored within your environment, giving your IT team full visibility and control — both during and after the contract period.
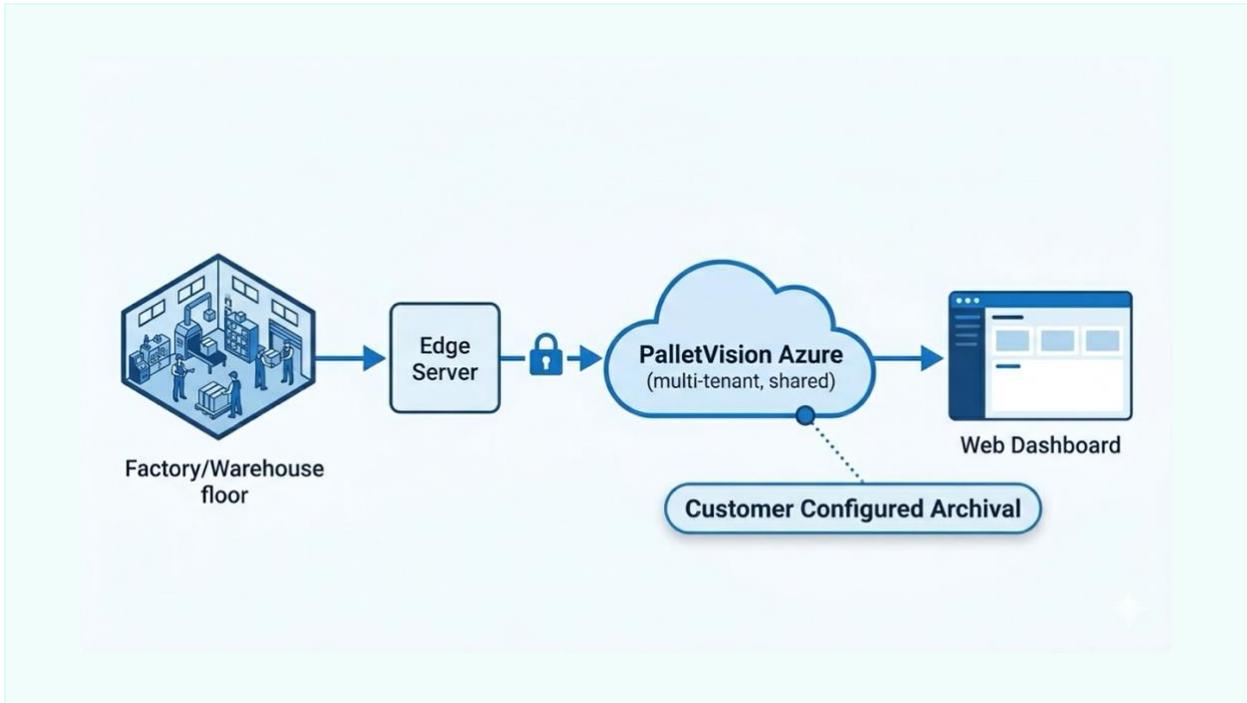

Figure 3: Option 2 — Customer Cloud (single-tenant, customer-hosted)

Hosting	Your organization's Azure environment
Tenancy	Single-tenant (fully isolated to your tenant)
Data Residency	Meets your specific IT and compliance requirements
Data Control	You retain full ownership and access to video clips — even after contract termination
Setup	Deployed by PalletVision into your Azure tenant; coordinated with your IT team
Best for	Organizations with data sovereignty mandates, regulated industries, or strict IT policies

Side-by-Side Comparison

	Option 1: PalletVision Cloud	Option 2: Customer Cloud
Hosting Environment	PalletVision Azure	Customer Azure Tenant
Tenancy Model	Multi-tenant SaaS	Single-tenant
AI Processing	On-premise Edge Server	On-premise Edge Server
Video Storage	PalletVision Azure	Customer Azure Tenant
Data Residency Control	Standard	Full IT compliance
Video Retention	1-month archival	Per your IT policy
Access Control	SaaS Tokens	Your Azure IAM
Post-Contract Data	Deleted per policy	You retain ownership
IT Setup Required	Minimal	Azure tenant access needed
Best For	Fast deployment, low overhead	Data sovereignty / regulated industries

Next Steps

To get started, simply let us know which deployment option aligns with your requirements. Our team will guide you through the onboarding process and coordinate with your IT team as needed.

1	Review this document with your IT and security stakeholders.
2	Identify whether data residency is a requirement for your organization.
3	Share your preferred deployment option with your PalletVision contact.
4	PalletVision will schedule a kickoff call and begin the deployment process.

Questions? Contact your PalletVision account representative.
info@palletvision.com | www.palletvision.com