DEPLOYMENT ARCHITECTURE

Industrial Operator. Two ways to deploy.

In your Azure subscription.
Or in Cleverdist's Azure cloud.

Deploy Industrial Operator (IO) in your Azure subscription or in Cleverdist's Azure cloud, depending on your cloud ownership and governance requirements. In both options, IO Edge runs in your industrial environment and initiates the cloud connection.

01 **Your Azure subscription** ↗ 02 Cleverdist Azure cloud ↗ AWS ALSO POSSIBLE

AZURE MANAGED APPLICATION WITH IO EDGE — 01 / AZURE

Azure Marketplace → **IO Managed Application**
Customer selects subscription, region and resources

Provisioning

01 **Customer Azure tenant**
/ selected subscription

IO Cloud Runtime AKS
Orchestration and reasoning
Mission configuration and audit

PostgreSQL
Configuration and history

AI / LLM endpoint
Selected during deployment
Existing service / model

Edge-initiated
HTTPS / WSS
Context, results and instructions

02 **Customer industrial**
/ IT–OT convergence environment

IO Edge
Local Linux VM (K3s) or customer AKS (level 3.5)
Hosting selected by the customer

IO services
SmartNodes Anywhere
OPC UA integration
IO Web & Engineering
Keycloak
Authentication federation

OPC UA ↓ — HTTPS ↑

Industrial systems
SCADA / OPC UA server

Customer users
Web browser

SOFTWARE DISTRIBUTION

Cleverdist ACR
Image mirroring

or

IO Portal
Image download

Cloud and Edge images

IDENTITY FEDERATION

Customer identity provider
Chosen by the customer

→ Connection initiation ----- Identity federation ----> Provisioning

Responses use established connections.

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01 Your Azure subscription ↗ 02 **Cleverdist Azure cloud** ↗ AWS ALSO POSSIBLE

CLEVERDIST AZURE CLOUD WITH IO EDGE — 02 / AZURE

Cleverdist Azure cloud → **IO Cloud Runtime**
IO deployed in Cleverdist's Azure environment

Cleverdist-hosted deployment

01 **Cleverdist Azure cloud**
/ Cleverdist tenant and subscription

IO Cloud Runtime AKS
Orchestration and reasoning
Mission configuration and audit

PostgreSQL
Configuration and history

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Existing service / model

Edge-initiated
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Context, results and instructions

02 Customer industrial
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- **IO services**
- **SmartNodes Anywhere** — OPC UA integration
- **IO Web & Engineering**
- **Keycloak** — Authentication federation

OPC UA ↓ — **Industrial systems**
SCADA / OPC UA server

HTTPS ↑ — **Customer users**
Web browser

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