

## Unified Cloud-Native Orchestration Platform

Single Control Plane for Containers, MicroVMs & AI Workloads | Indonesian Compliance Built-In

### UNIFIED CONTROL

- Single PI for all workloads
- Containers + VMs + AI/ML
- One skill set required
- Simplified operations

### CORE TECHNOLOGY STACK

<b>Query Engine</b>	Apache DataFusion + Custom Extensions
<b>Distributed Compute</b>	Ballista with Kubernetes Integration
<b>Storage Engine</b>	TiKV + Lance + Delta Lake Integration
<b>Networking</b>	Arrow Flight + gRPC + Hyper HTTP
<b>Data Formats</b>	Apache Arrow + Parquet + Delta
<b>Runtime</b>	Tokio Async + Rayon Parallel
<b>Security</b>	Rustls TLS + RBAC + Encryption
<b>Observability</b>	Vector + OpenTelemetry + Metrics

### AI OPTIMIZATION

- ML-powered scheduling
- 85% resource utilization
- Predictive scaling
- Auto-optimization

### DEPLOYMENT FLEXIBILITY

<b>On-Premises</b>	Full control, maximum security
<b>Hybrid Cloud</b>	Multi-cloud + on-prem unified
<b>Edge Computing</b>	1000+ distributed locations
<b>Government Cloud</b>	Certified for public sector
<b>Banking Cloud</b>	OJK compliant infrastructure

### INDONESIAN INFRASTRUCTURE

Jakarta DC	Compliance
Surabaya DC	Monitoring
Edge Sites	Disaster Recovery

### MANAGEMENT & USER INTERFACE LAYER

Multi-Channel Management Experience Indonesian Language & Compliance Reporting

**Web Console**  
Indonesian UI  
Real-time Analysis

**Mobile App**  
Native iOS/Android  
On-the-go Management

**REST & GraphQL**  
Modern APIs  
Developer Friendly

**Terraform Provider**  
Infrastructure as Code  
GitOps Integration

**Format Parsers**  
Parquet/Arrow  
CSV/JSON/Avro

### FLEETMGR INTELLIGENT CONTROL PANEL

AI-Powered Unified, Orchestration Engine, Single API for All Workload Types

**Unified Scheduler**  
AI-Optimized  
Cross-Platform

**Policy Engine**  
Compliance Rules  
Data Sovereignty

**Resource Optimizer**  
ML-Driven  
85% Utilization

**Service Mesh**  
Traffic Management  
mTLS Security

### MANAGEMENT & MONITORING

Observability Stack

**Metrics Collection**  
Prometheus Compatible  
Custom Exporters

**Distributed Tracing**  
Jaeger/OpenTelemetry  
Query Optimization

### INDONESIAN FIRST

Compliance Ready

**100% Compliant**  
UU PDP/OJK/BI  
Automated Audit

**Local Support**  
24/7 Indonesian  
Jakarta Team

### WORKLOAD CONTROLLERS LAYER

Specialized Orchestration Engines  
Unified Management Interface

**Kubernetes Controller**  
Container Orchestration  
CNI/CSI/CRD Support

**AI/ML Controller**  
GPU Management  
Model Serving

**MicroVM Controller**  
Secure Workloads  
100ms Provisioning

**Edge Controller**  
Distributed Nodes  
5G/IoT Integration

### UNIFIED INFRASTRUCTURE POOL

Heterogeneous Resource Management  
NQRust-HV Foundation

**NQRust-HV**  
Memory-safe VMM  
Secure Hypervisor

**Container Runtime**  
containerd/CRIO  
OCI Compliance

### ROI METRICS

- 70% operational savings
- 4 month payback period
- 10x efficiency gain

### COMPETITIVE ADVANTAGES

<b>Unification</b>	Only platform managing ALL workload types
<b>Performance</b>	AI scheduling 10x faster than manual
<b>Cost</b>	70% savings vs multi-platform approach
<b>Compliance</b>	Built-in Indonesian regulatory support
<b>Intelligence</b>	ML-powered resource optimization
<b>Speed</b>	Deploy in hours, not weeks
<b>Support</b>	24/7 Indonesian language support
<b>Innovation</b>	Cloud-native, future-ready architecture

### COMPLIANCE READY

- UU PDP automated
- OJK banking ready
- BI payment standards
- Data residency enforced

### WORKLOAD SUPPORT MATRIX

Workload Type	Support	Key Benefits
Containers	Native	Kubernetes-compatible
MicroVMs	Native	Security + performance
AI/ML Models	Native	GPU optimization
Legacy VMs	Migration	Smooth transition
Edge/IoT	Native	Distributed management

### MANAGEMENT INTERFACES

Web Console

Mobile App

CLI + APIs

IaC Tools

### ORCHESTRATION FLOW LEGEND

- Management Flow
- Control Flow
- Workload Orchestration
- Infrastructure Management



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