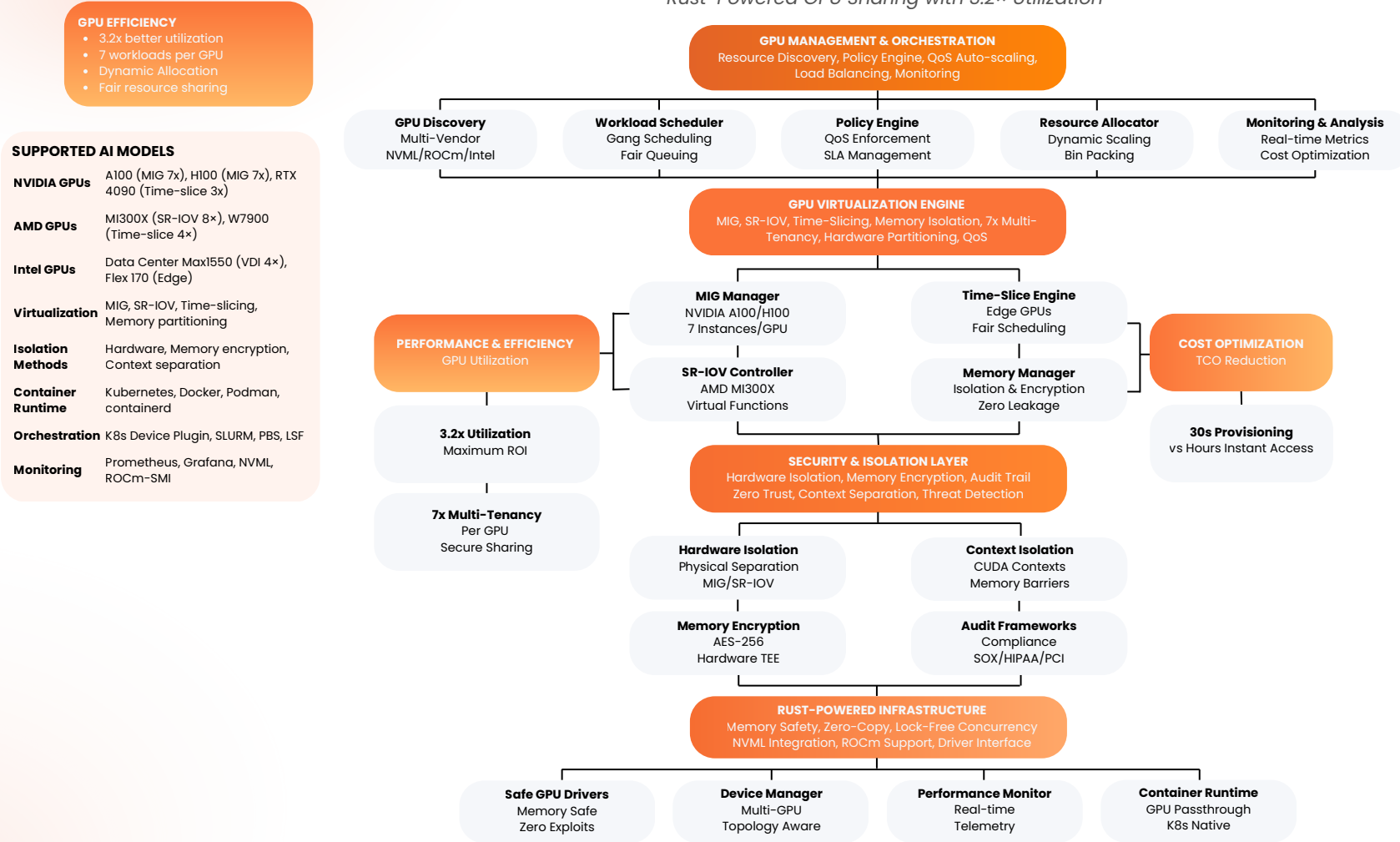


NQRust-SecureGPU

Enterprise GPU Virtualization & Isolation Platform

Rust-Powered GPU Sharing with 3.2x Utilization



GPU EFFICIENCY

- 3.2x better utilization
- 7 workloads per GPU
- Dynamic Allocation
- Fair resource sharing

SUPPORTED AI MODELS

NVIDIA GPUs	A100 (MIG 7x), H100 (MIG 7x), RTX 4090 (Time-slice 3x)
AMD GPUs	MI300X (SR-IOV 8x), W7900 (Time-slice 4x)
Intel GPUs	Data Center Max1550 (VDI 4x), Flex 170 (Edge)
Virtualization	MIG, SR-IOV, Time-slicing, Memory partitioning
Isolation Methods	Hardware, Memory encryption, Context separation
Container Runtime	Kubernetes, Docker, Podman, containerd
Orchestration	K8s Device Plugin, SLURM, PBS, LSF
Monitoring	Prometheus, Grafana, NVML, ROCm-SMI

ENTERPRISE SECURITY

- Hardware isolation
- Memory encryption
- Zero data leakage
- Full audit trail

BUSINESS IMPACT METRICS

GPU Utilization	85% (3.2x improvement over 35% baseline)
Multi-Tenancy	7x secure workloads per GPU (vs 1-2 traditional)
Provisioning Speed	30 seconds (240x faster than manual allocation)
Security Isolation	Hardware-enforced with zero cross-contamination
Enterprise Adoption	Finance, Healthcare, Manufacturing sectors
Performance Overhead	<2% vs native GPU performance

RUST ADVANTAGE

- Memory safety
- Zero-cost abstractions
- Predictable performance
- Driver security

ENTERPRISE USE CASES

Financial Trading

AI Research

Healthcare AI

Data Analytics

Manufacturing

Edge AI

DEPLOYMENT MODELS

Cloud Native

On-Premises

Hybrid Cloud

Edge Computing

Platform	NQRust	NVIDIA MIG	VMware vSphere	RunAI	Cloud vGPU
GPU Utilization	85%	80%	45%	70%	40%
Workload/GPU	7x	7x	16x	Variable	12x
Hardware isolation	Yes	Yes	No	No	Limited
Multi-Vendor Support	Yes	No	Partial	Partial	No

GPU Leadership
85% utilization efficiency
7x secure multi-tenancy

Secure Excellence
Hardware-level isolation
Zero cross-contamination

Rust Innovation
Memory-safe architecture
Zero-vulnerability drivers

ARCHITECTURE LEGEND

Management Flow Virtualization Layer Security Pipeline Infrastructure

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