

FTKC – AI INFRASTRUCTURE REQUIREMENTS

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About Exterro

Exterro was founded with the simple vision that applying the concepts of process optimization and data science to how companies manage digital information and respond to litigation would drive more successful outcomes at a lower cost. We remain committed to this vision today. We deliver a fully integrated Data Risk Management platform that enables our clients to address their privacy, regulatory, compliance, digital forensics, and litigation risks more effectively and at lower costs. We provide software solutions that help some of the world's largest organizations, law enforcement and government agencies work smarter, more efficiently, and support the Rule of Law.

Purpose of the Document

This document establishes the hardware design specifications for hosting the client's localized AI environment.

Hardware Requirements

AI Server: Enterprise Requirements

These configurations support the standard distributed AI inference workload within the FTKC ecosystem. Designed for environments where FTK Central manages batch-processing jobs across enterprise-grade nodes, ensuring reliable performance for standard object detection, video detection, Summarization, Multimedia search, Texts vector indexing tasks.

Tier	Component	Primary Requirements
Minimum	Operating System	Windows
	CPU	8 core
	RAM	32 GB
	Hard Disk	500GB
	GPU Cards	- NVIDIA A10 (24GB) - NVIDIA L4 (24GB) - NVIDIA RTX 4000 Ada (20GB)
Recommended	Operating System	Windows
	CPU	16 core
	RAM	64 GB
	Hard Disk	500 GB
	GPU	- NVIDIA RTX 4500 Ada Gen (24GB) - NVIDIA A100 (40GB)

AI Server: Commercial Requirements

Tier	Component	Primary Requirements
Minimum	Operating System	Windows
	CPU	8 core
	RAM	32 GB
	Hard Disk	500GB
	GPU Cards	- NVIDIA RTX 4080 Super (16GB) - NVIDIA RTX 4080 (16GB) - NVIDIA RTX 4070 Ti Super (16GB)
Recommended	Operating System	Windows
	CPU	16 core
	RAM	64 GB
	Hard Disk	500GB
	GPU Cards	NVIDIA RTX 4090 (24GB)

LLM Server: Heavy Compute Requirements

Dedicated infrastructure for compute-intensive Large Language Model (LLM) operations, including long-context RAG and advanced textual analysis. These specifications mandate Ubuntu environments to support specialized high-memory GPU configurations (A100/H100), enabling the VRAM and bandwidth throughput required for complex LLM inferencing that standard AI nodes cannot efficiently handle.

Tier	Component	Primary Requirements
Minimum	Operating System	Ubuntu
	CPU	16 core
	RAM	64 GB
	Hard Disk	500GB
	GPU Cards	1 x NVIDIA A100 80GB 1 x NVIDIA H100 80GB 2 x NVIDIA A100 40GB 1 x NVIDIA RTX PRO 6000 Blackwell 96GB 4 x NVIDIA L4 24GB
Recommended	Operating System	Ubuntu
	CPU	16 core
	RAM	64 GB
	Hard Disk	500GB
	GPU Cards	2 x NVIDIA A100 80GB 2 x NVIDIA H100 80GB 4 x NVIDIA A100 40GB 2 x NVIDIA RTX PRO 6000 Blackwell 96GB

Total VRAM capacity and memory bandwidth are the definitive hardware architectural bottlenecks governing Large Language Model (LLM) context window scaling. VRAM volume strictly dictates the maximum token length a system can structurally accommodate without triggering memory faults, while memory bandwidth directly scales processing throughput (tokens per second) during long-context execution.

Contact Exterro

If you have any questions, please refer to this document, or any other related materials provided to you by Exterro. For usage questions, please check with your organization's internal application administrator. Alternatively, you may contact your Exterro Training Manager or other Exterro account contact directly.

For technical difficulties, support is available through support@exterro.com.

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