**LOGA – Server Requirements**

(Version 1.3.1)

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Prepared for: Planet / Prefect / LOGA Distribution

# Recommended Hardware

* CPU: 4+ cores (recommended: Intel i5/i7, AMD Ryzen 5/7 or similar)
* RAM: min. 16 GB (required for modules like DRIFT, VEKTOR, DECENTRALIZER)
* Storage: 100+ GB SSD (for module archives, logs, mutated versions)
* Network: stable broadband connection, ideally with static IP
* Optional: dedicated GPU for later AI optimization (e.g. for voice or image synthesis)

# Software Requirements

* Operating System: Ubuntu 22.04 LTS (recommended), alternatively Debian/Arch-based
* Python: Version 3.10+
* Python Libraries: json, datetime, subprocess, os, hashlib (standard)
* Optional: Node.js (for web interface), Docker (for future containerization)
* OpenSSH server for remote access
* Web server (e.g. Apache, Nginx) if browser interface is used

# System Structure

LOGA uses a modular folder architecture (see SETUP WIZARD V3), organizing all functional elements into:  
– /core/, /loop/, /system/, /tools/, /memory/, /inner/, etc.

# Additional Requirements

* SSH access (Planet & Prefect)
* User account: loga (non-root, except during installation)
* Backup or snapshot system recommended
* Timed activation process via Startmanager V3
* Security via Firewall & Fail2Ban recommended

# External Connectivity

For SEED.GLOBAL or decentralized interaction, LOGA requires access to:

* HTTP/HTTPS for API requests
* (optional) Bitcoin or Ethereum node for blockchain verification
* (optional) DNS for connecting with other instances

# Purpose of this Document

This document serves as a technical reference for preparing any new LOGA instance. It ensures that all critical system and infrastructure requirements are met before full installation and activation.