Category	Tool/Service	Purpose	Relevance / Project Use	Install Hint	OS/Notes
OS Base	Ubuntu LTS (in VM) or Pop!_OS	Core operating system providing the Linux environr	Foundation for everything.	ISO/OS Install	Linux
Virtualization	VirtualBox	Runs the Ubuntu VM for isolation (Recommended).	V0 Setup.	apt or Pop!_Shop	Linux Host
Dev Environment	build-essential, curl, wget	Basic C/C++ compilers & tools needed for some in:	Dependency for many tools.	apt install	Linux
	Git	Version control for all project code.	All projects (Soarix, Feelo, etc.).	apt install git	Linux
	NVM (Node Version Manager)	Manage multiple Node.js versions easily.	For Frontend (Next.js) & Backend (Node/Express option).	Install script	Linux
	Node.js (LTS via NVM)	JavaScript runtime for frontend builds & optional b	Feelo/PulseNow/Soarix Frontend, CRM Admin UI, potential Orchestrator.	nvm install --lts	Linux
	Pyenv	Manage multiple Python versions easily.	For Backend (FastAPI), AI scripts, Agent Frameworks.	Install script	Linux
	Python (via Pyenv)	Core language for backend, AI, automation scripts.	Soarix/Feelo/PulseNow Backend, Orchestrator, AutoGPT, LangChain, etc.	pyenv install	Linux
	pip & venv	Python package management & virtual environmer	Isolating dependencies for Python projects.	Comes with Python	Linux
Containerization	Docker Engine & CLI	Run applications in isolated containers.	n8n, Prometheus, Grafana, Databases (local dev), AI tools (optional), Backend deployment target.	apt install	Linux
	Docker Compose	Define and run multi-container Docker applications	Managing the Studio's backend services (n8n, monitoring, DBs).	apt install	Linux
AI (Local/Offline)	Ollama	Run LLMs locally (Mistral, Llama, etc.).	Soarix (content/replies), Feelo (emotion gen), PulseNow (summaries), AI Book writing, general assistance via Orchestrator.	Install script/deb	Linux (GPU Opt)
	LM Studio	GUI for managing and running local LLMs (alternat	Easier model management and testing.	AppImage/deb	Linux
	Stable Diffusion (UI)	Text-to-Image/Video generation (e.g., Automatic11	Soarix (client visuals, own content), Feelo (emotional visuals), Individual Monetization (Reels/Shorts visuals).	Docker or venv	Linux (GPU Req)
	Whisper (OpenAI)	Speech-to-Text transcription.	Soarix (video captions), Feelo (voice input), AI Book writing (dictation).	pip install (venv)	Linux (GPU Opt)
	Coqui TTS / Piper	Text-to-Speech synthesis.	Soarix (video voiceovers), Feelo (voice messages), Individual Monetization (video narration).	Docker or pip	Linux
	FFmpeg	Video/Audio processing toolkit.	Soarix/Individual Monetization (editing, format conversion for Reels/Shorts), Feelo (processing visuals).	apt install ffmpeg	Linux
AI (Online/APIs)	Google Gemini API	Powerful LLM for complex tasks, analysis, coding.	Soarix (strategy, reports), Feelo (complex emotions), PulseNow (summaries), IT Builds, AI Book writing.	API Key needed	Cloud Service
	OpenAI API (ChatGPT)	Alternative/Complementary LLM.	(Similar to Gemini)	API Key needed	Cloud Service
	Anthropic Claude API	Alternative/Complementary LLM.	(Similar to Gemini)	API Key needed	Cloud Service
Automation	n8n	Workflow automation platform. Connects APIs visu	Soarix (posting, messaging, CFR->BDR), PulseNow (scheduling crawls), CRM (integrations), Individual Monetization (posting).	Docker	Linux
Agent Frameworks	AutoGPT, AgentGPT, BabyAGI	Autonomous agent frameworks (experimentation/s	Soarix (research), IT Builds (prototyping). Installation complex, use Docker/venv stubs initially.	Git clone + pip	Linux (Python)
	LangChain / LlamaIndex	Frameworks for building LLM applications (agents,	Foundation for custom AI logic in Orchestrator, Feelo, PulseNow, Soarix.	pip install (venv)	Linux (Python)
	LangGraph	Building stateful multi-agent applications.	Advanced agentic workflows for complex Soarix tasks or IT builds.	pip install (venv)	Linux (Python)
	SuperAGI	Agent framework with focus on tooling and deployr	Alternative agent platform for Soarix/IT builds.	Docker/Git clone	Linux
Browsers	Firefox / Chrome / Brave	Standard web browsing & accessing cloud console	Accessing Gemini/Claude UIs, Cloud Dashboards, Grafana, n8n.	apt install	Linux
	Agentic Browser Profile	Dedicated browser profile (using above browsers) 1	Isolating AI service accounts.	Browser feature	Linux
Security	UFW (Uncomplicated Firewall)	Host-based firewall for Linux.	V0/V1 Security setup - blocking unwanted access.	apt install ufw	Linux
	Fail2Ban	Intrusion prevention (monitors logs for brute-force)	Securing SSH if enabled.	apt install	Linux
	LUKS (Disk Encryption)	Filesystem-level encryption.	Securing VM disk (during install) or external backup drive (cryptsetup).	OS Installer/Tool	Linux
	KeePassXC	Secure password manager.	Storing API keys, passwords locally and securely.	apt or Flatpak	Linux
	Falco	Runtime security monitoring (detects suspicious cc	V1 SOC setup (runs on host or via Docker).	Install script/deb	Linux
	Wazuh Agent	Host-based intrusion detection & log analysis.	V1 SOC setup (reports to Wazuh Manager).	Install script/deb	Linux
	Trivy	Container image vulnerability scanner.	V1 CI/CD Quality Gate.	Install script/deb	Linux
	Security Linters (e.g., Bandit)	Code vulnerability scanners.	V1 CI/CD Quality Gate.	pip install	Linux (Python)
	SPDX Tooling	Software Bill of Materials & license checking.	V1 CI/CD Quality Gate.	Various tools	Linux
Backups	Timeshift	System snapshots (like Time Machine).	V0/V1 Backup strategy - recovering system state.	apt install	Linux
	rclone	Cloud storage sync tool.	V0/V1 Backup strategy - syncing project data to Google Drive.	apt install rclone	Linux
	rsync	File synchronization tool.	V0/V1 Backup strategy - syncing project data to external HDD.	apt install rsync	Linux

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	cron	Task scheduler for Linux.	Automating backups (rclone, rsync) and maintenance scripts.	OS default	Linux
Utilities	VS Code (or VSCodium)	Code editor (can connect remotely to VM/Host).	Development.	Pop!_Shop / deb	Linux
	htop / docker stats	System/container resource monitoring.	Performance checks.	apt install htop	Linux
	jq	Command-line JSON processor.	Scripting, API interaction.	apt install jq	Linux
Monitoring	Prometheus	Metrics collection database.	V1 Monitoring stack.	Docker	Linux
	Grafana	Visualization dashboard for metrics/logs.	V1 Monitoring stack.	Docker	Linux
	Sentry	Application error tracking.	V1 Monitoring stack (Free cloud tier or self-host via Docker).	Cloud/Docker	Linux
	ELK Stack / Wazuh SIEM	Log aggregation and security information manager	V1 SOC setup (Runs via Docker).	Docker	Linux
Cloud Services/APIs	Google Cloud Platform (GCP)	Cloud Run (deployment), GCS (storage), Cloud Buil	IT Builds, Soarix (optional deploy), PulseNow (optional deploy).	gcloud CLI, API	External
	Firebase	Hosting, Firestore (DB), Auth.	IT Builds (especially PWAs/mobile-focused), Feelo (DB/Auth).	firebase CLI, API	External
	Render	PaaS for deploying web services, databases, worke	IT Builds, Soarix, PulseNow (Cheapest/Alternative deploy target).	render-cli, API	External
	Railway	PaaS focused on developer experience (similar to F	IT Builds (Free/Cheapest deploy target).	railway CLI, API	External
	Supabase	Backend-as-a-Service (Postgres, Auth, Storage, Rea	CRM, Soarix (metadata), IT Builds (Default DB/Auth).	API/SDKs	External
	MongoDB Atlas	Managed MongoDB database.	PulseNow (articles), Soarix (optional logs), IT Builds (Document DB needs).	API/SDKs	External
	Backblaze B2	Cheap S3-compatible object storage.	Soarix/Feelo/PulseNow/Individual Monetization (Primary Media Storage).	rclone/API/SDKs	External
	BunnyCDN	Cheap, performant CDN.	Soarix/Feelo/PulseNow/Individual Monetization (Media Delivery).	API	External
	Cloudflare (Pages/R2/CDN)	Hosting, Storage (0 egress), CDN, Security (WAF/DI	IT Builds (Free/Cheapest Frontend/Storage), Soarix/Feelo/PulseNow (Alternative CDN/Storage).	wrangler CLI, API	External
	Brevo/SendGrid/Twilio etc.	Email/SMS API providers.	Soarix (Messaging Automation), CRM (Notifications).	API	External
	WhatsApp Business API	WhatsApp messaging for businesses.	Soarix (Messaging Automation), CRM (Client Communication).	API	External
	Social Media APIs	YouTube, X, Instagram, Facebook, LinkedIn APIs.	Soarix (Posting, Analytics, Replies), Individual Monetization (Posting, Analytics).	API/SDKs	External
	Payment Gateways	Razorpay, Stripe (Non-Israel based).	IT Builds (SaaS), CRM (Billing).	API/SDKs	External