

HASSAN MAHMOOD

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IT Project Manager | Infrastructure Architect | Systems & AI Engineer – Permanent Position September 2026

PROFILE

Systems and Network Engineer with 6+ years of experience in Windows Server/Linux infrastructures, virtualization (Hyper-V, Proxmox), Docker containerization and AI deployment (LLM, RAG). Azure AZ-900 certified. Master 2 GSI at Paris-Dauphine. DevOps approach, project management and team leadership.

TECHNICAL SKILLS

Systems: Windows Server (AD, DNS, GPO, IIS), Linux Debian, Exchange Online, MDT/WDS, PDQ Deploy
Virtualization & Cloud: Hyper-V (HA), Proxmox (HA, Ceph, NFS), VMware, Azure (AZ-900), AWS (Bedrock)
Containerization & AI: Docker, Ollama, OpenWebUI, LLM (Mistral, GPT-OSS), RAG, SearxNG, kubernetes
Network: VLAN, DHCP, NAT, routing, firewall, switches, routers, Netgear firewalls
Scripting & Monitoring: Ansible, PowerShell, Bash, Python, Nagios Core, CheckMK, Veeam Backup
Development & Tools: PHP, HTML, CSS, MySQL/MariaDB, SQL, GitLab, GLPI, Jira, Confluence, WikiJS

PROFESSIONAL EXPERIENCE

Systems and Network Engineer – Paris-Dauphine University, Paris

Nov. 2023 – Present

- Design, deployment and security hardening of a private AI server based on LLMs (Mistral, GPT-OSS, OpenWebUI, Ollama), containerized with Docker, featuring RAG architecture, SearxNG search engine and Amazon Bedrock integration, capable of handling up to 10,000 users.
- Active Directory (AD) server administration: user, group and Group Policy (GPO) management.
- DNS server administration (Windows Server): zone management and name resolution.
- Ongoing deployment of an on-premise Kubernetes cluster (Debian 13)
- Setup and administration of Windows Server web servers: IIS, website hosting, HTTPS configuration, reverse proxy and MySQL/MariaDB database management.
- Setup and administration of Linux (Debian) web servers: Apache2, Nginx and MySQL/MariaDB database administration.
- IT hardware management: installation, maintenance and assembly of PCs and servers.
- PC deployment with MDT and WDS: automated installation of Windows 10/11, applications and drivers.
- Infrastructure audit control: update verification, data security, policy compliance and security best practices monitoring.
- Implementation of high availability (HA) solutions for critical services.
- Administration and deployment of application solutions: GRR, XIBO.
- Deployment of Print Manager Plus 9 application server on Windows Server 2022 and printer management.
- Coordination of a server infrastructure modernization project, including DNS migration from Windows Server 2008 to 2022 and Active Directory from 2012 to 2022.
- Implementation of a replication-based Hyper-V high availability (HA) architecture.
- Setup and administration of a backup solution with Veeam.
- Network administration on Netgear equipment: VLAN configuration, DHCP, IP address management, port security and network interconnection.
- Automation of administration tasks via Python and PowerShell.
- Setup of Nagios Core and monitoring of Windows and Linux servers (email notifications, custom alerts and custom monitored services).
- Development and integration of a chatbot for the CRIO website.
- Web development with PHP, HTML, CSS and MySQL database management.
- User support, team management (tutor and intern) and IT documentation and procedures writing via WikiJS.
- Installation and configuration of a Proxmox 9 standalone server.
- Installation and configuration of a Remote Desktop Services (RDS) server on Windows Server 2022.

Apprentice Systems Administrator – Voltalis, Paris

Nov. 2021 – Sep. 2023

- Windows Server infrastructure administration (AD, DNS) and Exchange Online (accounts, DL, shared mailboxes)
- Linux server administration (GitLab, GLPI, MySQL, Docker, Apache2) and HP iLO management
- MySQL database administration and management (HA architecture)
- Virtualization: Proxmox (HA, Ceph, NFS) + cluster migration 6 → 7
- Automation with Ansible (Debian VM deployment, configuration & services)
- CheckMK monitoring setup (Linux/Windows, custom alerts, prod/pre-prod monitoring)
- MDM administration with TinyMDM: mobile fleet deployment and management, security policy enforcement
- GitLab server migration
- User support + documentation (Jira, Confluence, GLPI)
- IT asset management and inventory with GLPI and OCS

Apprentice Systems Administrator – Sodexi, Tremblay-en-France

Nov. 2018 – Sep. 2020

- Workstation deployment and configuration via MDT/WDS (automated Windows 10)
- Active Directory and PDQ Deploy administration
- Linux Debian administration
- User support + asset management (GLPI)
- Hardware maintenance (PCs, printers)
- Network: brassage, VLAN, configuration switches
- Security policy enforcement

EDUCATION

Master's in Information Systems Management (GSI) – Paris-Dauphine University

2025 – Ongoing

Master's in Systems, Networks and Cloud Computing – ESGI

2021 – 2023

Bachelor in Systems, Networks and Cloud Computing – ESGI

2020 – 2021

BTS SIO – SISR Track – Proméo Training Center, Senlis

2018 – 2020

LANGUAGES & CERTIFICATION

French (native) | **Urdu** (native) | **English** (B2/C1) | **Certification:** Microsoft Azure Fundamentals (AZ-900)