

MEHMET EMRE OZUDOGU

Senior Infrastructure, Cloud & Platform Engineer | Systems • SRE • Data Center • Automation

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PROFILE

Senior infrastructure and platform engineer with 15+ years across mission-critical aerospace, telecom/ISP, cloud, data-center, and higher-education environments. Deep hands-on background in Linux and Windows systems, virtualization, AWS/Azure/GCP, Kubernetes, networking, storage, observability, and infrastructure automation. Experienced in production operations, incident response and RCA, platform lifecycle, hardware and bare-metal operations, migrations, reliability engineering, and technical leadership. U.S. Lawful Permanent Resident; no sponsorship required; open to relocation for the right opportunity.

CORE EXPERTISE

Infrastructure & Compute Linux (RHEL/Ubuntu), Windows Server, VMware vSphere/ESXi, vSAN/VxRail, KVM/QEMU, Proxmox, Hyper-V, SimpliVity, physical server lifecycle.

Cloud & Platforms AWS, Azure, GCP, Kubernetes, Docker, Azure AKS, hybrid/multi-cloud infrastructure, platform modernization, SRE/reliability operations.

Automation & Delivery Terraform, Ansible/AWX, Python for infrastructure scripting, Bash, PowerShell, Git/GitLab, Jenkins, PXE/Kickstart, Redfish/API-driven operations.

Network, Storage & Observability Arista EOS, BGP, DNS/BIND, DHCP, RADIUS/802.1X, VPN, VLAN/TCP-IP, Ceph, ZFS, SAN/NAS, NetApp/Hitachi, Zabbix, Prometheus, Grafana.

PROFESSIONAL EXPERIENCE

SpaceX | IT Systems Administrator, Launch

Starbase, TX • Oct 2025 - Jul 2026

- Built, cabled, configured, and validated server-and-switch racks supporting mission-critical launch infrastructure; coordinated facility-power and upstream-connectivity dependencies with partner teams.
- Installed and administered Linux and Windows systems, core infrastructure services, Active Directory, Group Policy, DNS, DHCP, authentication, NTP/PTP, and related operational dependencies.
- Performed server hardware health and configuration checks through BMC interfaces and automation; supported BIOS/firmware verification, Secure Boot configuration, TPM enablement, and repeatable validation workflows.
- Automated fleet-level operational changes with Ansible, Bash, PowerShell, and Python using controlled rollout and post-change validation.
- Deployed and maintained Arista EOS switching and troubleshoot Layer 1-3 failures across server, network, DNS/DHCP, and timing-service boundaries.

Boldyn | Senior Systems Engineer

New York, NY • May 2023 - Jun 2025

- Operated high-availability Linux, physical, virtual, and AWS infrastructure supporting production telecommunications services; provided 24x7 L2-L4 systems support and cross-functional technical escalation.
- Owned server and platform maintenance, patching, upgrades, backup/recovery, software releases, configuration management, and post-change validation across production environments.
- Automated infrastructure workflows with Ansible, Terraform, PowerShell, Python, and GitLab across RHEL, VMware/KVM, Ceph, ZFS, NFS, and AWS.
- Used Zabbix and system/network telemetry to identify degradation and troubleshoot Linux, DNS/DHCP, storage, and adjacent infrastructure dependencies; coordinated vendors and field teams through deployments and incidents.

PROFESSIONAL EXPERIENCE - CONTINUED

TurkNet | Senior Cloud Infrastructure Engineer / Cloud Infrastructure Engineer

Remote • Mar 2019 - May 2023 • Senior technical lead for an 8-person infrastructure team

- Planned, designed, and operated large-scale on-premises and multi-cloud infrastructure supporting approximately 1M residential and 300K corporate customers; served as senior technical lead for an eight-person infrastructure team.
- Operated VMware/vSAN/VxRail, Proxmox, Linux, Windows, Kubernetes, AWS/Azure/GCP, NetApp/Hitachi SAN/NAS, and enterprise monitoring platforms across production environments.
- Developed Ansible automation using Redfish APIs for bare-metal provisioning and hardware lifecycle operations across Cisco UCS, Dell, and HPE platforms; used PXE/Kickstart and BMC/firmware tooling for repeatable deployments.
- Led VMware infrastructure modernization from vSphere 5.5 to 7.0 on new blade-server platforms, including dependency analysis, compatibility validation, cutover sequencing, rollback planning, and production transition.
- Led systems-side incident response and RCA for major production events; designed a distributed DNS resolver architecture for a multi-POP ISP using shared service IPs advertised via eBGP.
- Built and operated Kubernetes, identity/SSO, backup, DNS, and cloud infrastructure projects using Terraform, Ansible/AWX, Azure AD, IPA/AD trust, Git/Jenkins, Grafana/Prometheus, and production change controls.

Istanbul Sabahattin Zaim University | Infrastructure Engineer / System Specialist

Istanbul, Turkey • Feb 2013 - Nov 2017

- Served as the primary infrastructure engineer across datacenter/server-room, compute, virtualization, storage, backup, identity, network, and cloud services.
- Managed Dell, HPE, Cisco, and enterprise server/storage platforms through iDRAC, iLO, IPMI, BIOS, firmware, PXE/WDS, golden-image, hardware-health, and capacity-planning workflows.
- Administered Windows Server, Linux, Active Directory, Office 365, Azure AD, VMware/Hyper-V, SimpliVity HCI, IBM storage/tape, Veeam backup, Palo Alto firewall, RADIUS/Eduroam, and core DNS/DHCP services.
- Delivered Active Directory redesign/migration, Office 365 migration, Hyper-V-to-VMware migration, IPv6 deployment, SSO/ADFS, and enterprise authentication projects.

Istanbul University, Faculty of Science | System Administrator / Technical Staff Manager (Part-Time)

Istanbul, Turkey • Nov 2005 - Feb 2013

- Operated faculty infrastructure across Windows Server, Active Directory, Hyper-V, DNS/DHCP, MDT/WDS, WSUS, SharePoint, IIS/Apache, and PKI.
- Coordinated daily technical work for up to 20 part-time staff and supported server, desktop, directory, web, deployment, and security services.
- Delivered Windows NT Directory Services-to-Active Directory migration, Apache/IIS migrations, SharePoint document services, WSUS, and enterprise PKI/RMS initiatives.

SELECTED ENGINEERING PROJECTS

- Private Azure AKS deployment using Azure AD authentication, Azure RBAC, private networking, Private DNS, VPN, and subnet controls.
- Infrastructure automation for Windows/Linux patching and routine operations through Ansible/AWX; Terraform provisioning for Kubernetes and Azure services.
- Hybrid/multi-cloud extension across AWS, Azure, and GCP; authoritative/recursive BIND DNS redesign and large-scale ISP resolver architecture.
- Identity modernization: AD-to-Azure AD synchronization, ADFS/SSO, IPA redesign with AD trust, and Microsoft 365/Exchange hybrid migration.
- Backup and resiliency modernization including Veeam, Linux immutable repository patterns, SAN/NAS, Ceph/ZFS, DR and recovery operations.

TECHNICAL INVENTORY

Operating Systems RHEL, Ubuntu, Linux administration, Windows Server, Active Directory, Group Policy, IIS, Apache, PKI, WSUS, SharePoint.

Virtualization / HCI VMware ESXi/vSphere, vCenter, vSAN, VxRail, KVM/QEMU, Proxmox, Hyper-V, SimpliVity; migrations, lifecycle, performance and resiliency operations.

Cloud / Containers AWS, Azure, GCP, Kubernetes, Docker, Azure AKS, S3, Azure networking, private cloud/hybrid cloud patterns, multi-cloud operations.

Automation / DevOps Terraform, Ansible, AWX, Git, GitLab, Jenkins, Bash, PowerShell, infrastructure-oriented Python, configuration management, CI/CD-adjacent infrastructure workflows.

Networking TCP/IP, BGP, VLANs, routing fundamentals, Arista EOS, DNS/BIND, DHCP, RADIUS, 802.1X, VPN, IPv6, HAProxy/Nginx; historical Palo Alto firewall administration and Suricata.

Storage / Backup Ceph, ZFS, NFS/SMB, SAN/NAS, NetApp, Hitachi, TrueNAS/FreeNAS, IBM storage/tape, Veeam Backup & Replication, immutable backup patterns.

Observability / Reliability Zabbix, Prometheus, Grafana, system/network telemetry, incident detection, troubleshooting, RCA, post-change validation; Splunk at user/training level.

Hardware / Bare Metal Cisco UCS, Dell, HPE, BMC/iDRAC/iLO/IPMI, Redfish APIs, PXE/Kickstart/WDS, BIOS/firmware, Secure Boot, TPM, rack-and-stack and datacenter operations.

Identity / Enterprise IT Active Directory, Azure AD, ADFS, IPA, SSO, RADIUS, Office 365/Microsoft 365, Exchange, VMware Workspace ONE/MDM, directory migration and federation.

Databases / Services PostgreSQL, MySQL, Microsoft SQL Server; BIND DNS authoritative/recursive services, IIS, Nginx, Apache.

Security / Resiliency System hardening, backup/recovery, immutable backup patterns, disaster recovery, patching, secure access, Secure Boot/TPM, incident response, RCA, and production change validation.

Leadership / Operations Senior technical leadership, on-call and escalation, vendor/partner coordination, capacity planning, lifecycle management, runbooks/documentation, cross-functional delivery, and production transition.

AI INFRASTRUCTURE LAB

Hands-on lab work with local GPU-backed LLM and agent workflows using an RTX 4080, Ollama/Open WebUI, local/hosted model routing, and tool-driven automation, with emphasis on repeatable operations, monitoring, and infrastructure integration.

CERTIFICATIONS & TRAINING

AWS Certified Solutions Architect - Associate — Amazon Web Services | 2025-2028

Zabbix Certified User 6.0 — Zabbix | 2024

Microsoft Certified: Azure Administrator Associate — Issued 2021 | Expired 2025

Splunk Intro to Splunk — 2026 | User/training level

CCNAv7: Introduction to Networks — Cisco | 2021 | Training, not full CCNA

Introduction to Cybersecurity — Cisco | 2021

IPv6 Sage — Hurricane Electric | 2009

EDUCATION

Master of Science, Computer Sciences and Engineering — Istanbul Sabahattin Zaim University | 2020

Bachelor of Science, Management Information Systems — Anadolu University | 2022

Bachelor of Business Administration — Anadolu University | 2013