Onurhan Ak

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Summary

While I hold a PhD in Sociology, I have transitioned out of academia to focus on Linux system administration and infrastructure automation. I specialize in provisioning secure Linux environments, automating workflows using Ansible and Bash, and managing containerized deployments with Docker and Terraform.

Certifications

AWS, Certified Solutions Architect   June 2025

Red Hat, Red Hat Certified System Administrator (RHCSA)   Apr 2025

Key Skills

Operating Systems: RHEL, CentOS, Ubuntu.

Automation & Provisioning: Ansible, Terraform, Docker, Github Actions.

Scripting: Python, Golang, Bash, SQL.

Monitoring: Prometheus, Grafana.

Security & Networking: SELinux, firewalld, SSH, NFS, DNS.

Other Tools: SLURM, Apptainer.

Professional Experience

Linux System Administrator & Automation Engineer. University of British Columbia — Remote | Nov 2022 - Present.

- Independently supported a research team running scientific Python workflows on HPC and Linux systems.
- Provisioned and maintained reproducible development environments using Apptainer, Docker, and Ansible.
- Standardized provisioning with Ansible and Docker Compose, reducing setup time by 90% and enabling rapid re-deployment.
- Managed Python virtual environments and userspace on SLURM clusters to ensure consistent dependencies and job execution.
- Developed Python and Go utilities for ETL tasks and data ingestion, reducing manual scripting and accelerating onboarding.
- Automated backups of research data and environment configurations with custom scripts in Python and Go.
- Provided SSH support and Linux troubleshooting to non-technical researchers.

Linux System Administrator & Python Developer. Freelance — Remote | Dec 2021 - Present.

- Deployed and maintained Linux servers for small businesses and research labs, including user/group management, system updates, and firewall configuration.

- Automated key system tasks (backups, user provisioning, package updates) using Bash and Ansible, reducing maintenance time.
- Debugged and refactored Python/Bash scripts submitted by clients.
- Documented infrastructure configurations, enabling clients to manage and extend their environments independently.
- Designed and implemented data pipelines for efficient ingestion, transformation, and reporting, including pipelines interacting with undocumented APIs.

Selected Projects

Homelab Automation with Ansible and Terraform (GitHub)
- Fully automated homelab provisioning, including Docker container orchestration, firewall setup, and NFS exports.
- Combined Ansible for configuration with Terraform for infrastructure management.

Personal Website (GitHub)
- Live site: https://onurhanak.com
- Built and deployed a containerized personal website using Docker and Nginx with HTTPS via Let's Encrypt.
- Automated deployment pipeline using Github Actions, Ansible, and Terraform on AWS.

Education

PhD	**Queen's University**, Sociology	Jan 2025
MS	**METU**, Sociology	Jun 2019
BS	**METU**, Sociology	Jun 2017