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