

Mircea-Pavel Anton

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What started with "computers are interesting", ended up with building custom servers for my Home Lab, tinkering with Raspberry Pi clusters, automating deployments, and being the sysadmin of my personal "datacenter". This practical experience armed me with all the tools required to handle real-world applications.

DevOps Experience

HOME LAB – AUTOMATED NETWORKING DEPLOYMENT

Wrote automation tasks in tools such as Packer, Terraform, and Ansible to speed up the deployment and configuration of my home lab network based on a virtualized OPNsense firewall and Cisco switches.

- Automated the configuration on Cisco Switches and OPNsense firewall via Ansible
- Automated the creation of a virtual machine template via Packer
- Deployed and customized the VM template via Terraform
- Bundled all the previous steps together in a Jenkins pipeline

HOME LAB – AUTOMATED CONFIGURATION OF DEBIAN-BASED HYPERVISORS

Created Ansible Playbooks and Roles to manage and configure the Debian-based Proxmox Hypervisor.

- Automated networking configuration and hostnames
- Customized kernel command line parameters, bootloader configuration, and loaded modules to enable VFIO, PCIe-passthrough, and GVT-g
- Configured the CPU power profile to boost performance
- Hardened the system by automating firewall configurations, setting key-based authentication, and changing default ports on common services

HOME LAB – AUTOMATED KUBERNETES DEPLOYMENT

Created Ansible Playbooks to automate the deployment of a K3S-based Kubernetes Cluster on ARM-based systems.

- Created a dedicated Ansible Role for Kubernetes manager and worker nodes
- Wrote Ansible Roles to automatically deploy Rancher and Longhorn via Helm
- Automated the deployment of a MetalLB-based load balancer
- Tied everything together in a single Ansible Playbook

Professional Experience

THALES

July 2021 - Present

DevOps Engineer

Worked on developing and maintaining a Kubernetes-based CI/CD platform including tools such as GitLab, Jenkins, Artifactory, Keycloak, SonarQube, Dependency Track, Nexus, DefectDojo, and midPoint

- Managed, improved, and created Jenkins pipelines to automate testing and deployments
- Created Ansible Playbooks to automate configurations and deployments of services
- Used Terraform to provision development Kubernetes clusters in AWS
- Improved security by implementing IAM via midPoint

UNIVERSITY OF AUTOMATIC CONTROL AND COMPUTER SCIENCE Oct 2020 – Jun 2021

Undergraduate Teaching Assistant

Lab assistant for the “Signals and Systems” (1st semester) and “Theory of Control Systems” (2nd semester).

- Developed software in Python to automate the grading of student assignments
- Set up CI/CD pipelines in GitLab to ensure the quality of said software
- Taught introductory labs

Certifications

Linux Foundation Certified System Administrator (LFCS) - estimated October 2022

Certified Kubernetes Administrator (CKA) - estimated December 2022 – January 2023

Education

UNIVERSITY OF AUTOMATIC CONTROL AND COMPUTER SCIENCE

BSc in Systems Engineering