LINUX PLUS

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I'm a Systems and DevOps Engineer and a Red Hat instructor in Linux Plus Information Systems specializing in ansible automation (RHCE® certified), CI/CD pipe-lining, software deployment, containerization, and virtualization, Well-versed in Python development, and with 2-years of experience in Linux administration (RHCSA® certified), over 500 paid freelancing hours, more than 8 projects, and seek to learn new technologies.

PROJECTS

Openshift Extended Operations — Implementation of a hub cluster in SAIB-Bank

Cluster scanning and remediation, image vulnerability scanning, and network policies management using RHACS.

Openshift Implementation — Mid-bank

4-Clusters including a hub cluster for central management, and performing the post-installation operations.

Network Automation — Automating the administration of network devices

Develop playbooks for retrieving & changing, and backing up network devices' configuration.

Automation of Baremetal OS Installation — Linux OS Installation automation

Automating the installation of Linux Client OS on bare metal using PXE network booting.

Message Queuing — Apache Kafka Implementation and API development

Implementation of dockerized Apache Kafka and Zookeeper and develop a kafka API client to interact with the OBP API.

Squid System — Full *Proxying System*

Integrate squid with a WebUI, develop its API with Python, and develop a command line interface to interact with it.

PassEg — Password manager

Creating the API of a password manager to store the encrypted passwords of a user in his account in Python.

OBP (Open Bank Project) — Banking API

Deployment of the API of an open-source banking API system.

SKILLS

Containerization: Build, run, administrate containers using Docker, Docker-compose, podman, and skopeo

Orchestration: Kubernetes, and Red Hat® Openshift

Automation: CI/CD Pipe-lining by Jenkins & IAAC using Ansible, Terraform, and scripting using Bash & Python

Software Deployment/Administration: nginx, Apache, Nexus, PostgreSQL & Mongo-db, pgAdmin & Mongo-express, CATTR for time tracking , Dokuwiki for creating wikis, Passbolt for password management and OpenBankProject (a banking api)

Programming: Python for software development, task automation, API development, communication programming, Flask for web development

Repository Managers: Docker Hub, Nexus, Quay, Red Hat® Registries, and Helm

Package Managers: apt, snap, yum, dnf, pacman, yay, and pip

Cloud Platforms: Digital Ocean, AWS, and Linode

Source Control: GitHub, GitLab, and CodeCommit

Build tools: maven, gradle, npm, yarn, and CodeBuild

Freelancing: Over 500 hours paid freelancing hours

Virtualization Hypervisors: VMware (Workstation, ESXi, vSphere), Virtualbox, Vagrant, and Nutanix

Security: Squid proxy, OPNSense firewall, Iptables, local & LDAP authentication, SSO, and OpenSSL for secured connection

Linux: RHEL, Centos, Fedora, Debian, Ubuntu, Manjaro, Kali

Networking: EVE & Packet Tracer, Cisco IOS/IOSXR

WORK EXPERIENCE

Linux-Plus Information Systems — Maadi, Cairo, Egypt — *Systems and DevOps Engineer*

Nov 2022 - PRESENT

Responsibilities: Openshift Implementation, Ansible network automation, Red Hat Courses Delivery, Ansible Automation Controller (ansible tower) deployment, PXE bare-metal OS deployment automation, SSO using miniOrange configuration.

Freelancing — Remote — *Systems Administrator*

Dec 2020 - Oct 2022

Responsibilities: Deployment of software applications like CATTR for time tracking, Dokuwiki for creating wikis, Passbolt for password management, Development of PassEg password manager, and the configuration of ESXi server and integrating with OPNsense firewall.

Egirna Technologies — Sheikh Zayed, Giza, Egypt — *Systems Administrator*

Dec 2019 - Jun 2020

Responsibilities: Deploy, maintain, and troubleshoot software systems on Ubuntu servers, configure servers' security using Iptables, create and deploy docker images, develop APIs using Python, and deploy and configure nginx web servers.

EDUCATION

National Telecommunication Institute (NTI) — Smart Village, Egypt — *Cyber Security internship*

Sept 2019 - Oct 2019

FEE (Faculty of Electronic Engineering), CSE (Computer Science & Engineering Department) — Menofia University, Egypt — *Bachelor's degree*

Oct 2013 - Jul 2019

Information Technology Institute (ITI) — Smart Village, Egypt — *Cyber Security Summer Training*

Aug 2018 - Sept 2018

CERTIFICATES

Red Hat® RHCE (Red Hat Certified Engineer)

Mar 2023 - Mar 2026

Red Hat® RHCSA (Red Hat Certified System Administrator)

Jan 2023 - Mar 2026

TRAINING EXPERIENCE

Red Hat® System Admin 1 V9 (RH124)
Client: EBI (Egypt Banking Institute) & NBE (National Bank of Egypt)   Aug 2023

Red Hat® System Admin 1 V9 (RH124)
Client: EBI (Egypt Banking Institute) & NBE (National Bank of Egypt)   Jul 2023

Red Hat® System Admin 2 V9 (RH134)
Client: Orange & Oracle   Mar 2023

Red Hat® System Admin 1 V9 (RH124)
Client: Oracle   Dec 2022

EXTRACURRICULAR ACTIVITIES

Organizer of The 7th control exhibition in FEE, Improved my team working skills   2016

Students' Union member in FEE, Improved my work efficiency   From 2014 to 2017

Team Leader in Robotics Transporter competition in FEE, Improved my leadership skills   2015

LANGUAGES

Mother-tongue: Arabic

Second Language: Good English speaker