Curriculum vitae,

Personal information:
Name: Catalin Caldararu.
Phone: +40799.597.552
Email: caldararu.catalin@yahoo.com
GitHub: https://github.com/catalin-caldararu
Gender: Male
Diplomas and Certifications can be seen in the last part of my CV.

Old and Current Employers:

1. Cloud Engineer Linux Arvato Systems.(Current).

2. DevOps / Senior Linux Administrator at Class IT 2021-2022. (1 year and 5 months).

3. DevOps at StartNet (2 years and 6 months).

4. ASC. CEZ ROMANIA 2018-2019 (1 year).

5. DevOps and Freelancer Digister 2014-2017 (3 years and 2 months)

6. Linux Sys-Admin Gedeon Association 2011-2012 (1 year).

Professional experience up to the first job is detailed below:

1.Cloud Engineer Linux at Arvato Systems (Current):

Design, implementation and management of infrastructure and private and public cloud services in AWS, using at the same time DevOps technologies (Ansible / Kuberes / Docker / Grafana / Prometheus).

-Over 9 years of hands-on experience in managing Linux systems and applications:

(ex: Nginx / Apache / Docker / DNS / Postfix / Deployment, configuration, debugging, backup and recovery).

-Knowledge of Bash scripting networking and networking.

-Creating an infrastructure based on the availability, scalability, security and performance of Ec2 RedHat Linux instances for performance and scalability.

-CI/CD GitHub Actions to automate software delivery processes, enabling frequent and reliable code deployments.

-Automation and orchestration with Infrastructure as Code (IaC) tools as well as Terraform or Cloud Formation to make deployments and manage AWS resources.

-Implement containerization technologies such as Docker and container orchestration platforms (Kubernetes) to manage scalable and portable applications in the cloud.

- Automation of the back-up and migration process Lift And Shift in Aws.

- Migrating services and applications from the private on-prem data center to the AWS public cloud.
-Strong knowledge of Linux system administration and command line tools.
- Familiarity with cloud platforms such as AWS, Azure, GCP, etc.
-Experience with configuration management tools (eg Ansible, Puppet, Chef).
-Knowledge of scripting in Bash.
-Understanding network concepts (VPC, firewall, security groups).

2. DevOps and senior Linux Administrator at Class IT:

- Deployment and security of Linux servers (From vM creation to DevOps Flow Chart type monitoring). - Implementation of Grafana and Prometheus. (Setting Grafana and creating Dashboards/) - Kubernetes Cluster Update.
-DevOps Cycle Deployments for production applications hosted on Docker using Kubernetes (10-Master Nodes and 325 worker nodes).
- Development of Linux clusters and migration to Docker-type solutions. Roll Back/Downgrade for applications that require a bugfix after a deployment.
-CI/CD Jenkins Pipeline for test automation of builds and Jenkins-Files.
-InPlace-Upgrade approx. 7000 servers migrating from RedHat 7 to RedHat 8 under the motto (Fix the root cause not the effect).
-Linux Load and Performance for vMs in production. Performance tests for production servers.
- Writing yaml config files Kubernetes/Helm Charts. - Kubernetes Deployments Strategy BlueGreen for the CI/CD process.
- Linux Servers Maintenance with the following tasks: - Check installed services (WebStack, Nginix Mail, Firewall, FTP, Backup, Network Storage).
-Software maintenance and testing (Load and Performance in a LINUX environment) after each deployment plus troubleshooting and monitoring on the application if necessary.
- Automation of RedHat Linux processes In Place Upgrade / Os-Patching
-Docker Build, Test, Release, Deploy, Threshold Monitoring
-Part of Firewall iptables/csf/lfd configuration of Chains and network communication between services. - Ticketing Support in Jira and Confluence - Configuring iptables and whitelisting rules.
- Kubernetes deployment for each pod and containerization solutions (Docker). -Scaling matrices with monitoring solutions (Nagios/Grafana/Kibana.) -Adding vMs in automation processes.
-AWS Auto Scaling to scale applications according to scale sets.
-Storage Management in Linux part of LVM file system
-Knowledge of Linux applications (eg: nginx / apache / Docker / DNS / Postfix);

3.DevOps la StartNet :
- Deployment for production applications, Jenkins and Kubernetes
- Deployments and maintenance of Ansible CI/CD (10 Ansible Master nodes and 1280 slave nodes) for the test environment and later production.
-Ticketing Support in Jira and Confluence plus internal ticketing tool for SLA (Service Level Agreement) compliance.
- Deployments for production applications hosted on Docker using Kubernetes. - Kubernetes deployment for each pod and containerization solutions (Docker).
-Setting Nginix server and Nginix Ingress Controller.
-Configure/create roles for Ansible.
-Writing Playbooks and automating the maintenance/deployment process.
-Configuring/Installing Nginx with Ansible
-Administration of Red-Hat linux infrastructure and preparation for deployment of various applications.
-Troubleshooting linux servers si aplicatiile aferente hostate pe Tomcat/Java.
- Resource allocation according to the requirements coming from the end customers (Capacity Management: Cpu/Ram/Hdd).
- Deployments for production applications written in Java and hosted on Tomcat with Jenkins Files and Nexus Build for the CI/CD process.

-Software maintenance and testing (Load and Performance in a LINUX environment) after each deployment plus troubleshooting and monitoring on the application if necessary.

- SLA implementation and support ticket for IoT & Connected Things Smart Devices (Connected Devices).

-Roll-Back/Downgrade for applications that require bugfix after a deployment.

- Ansible code review and testing with Molecule.

-Linux monitoring tools and server infrastructure provisioning with Ansible and Jenkins for application deployments.

-Troubleshooting for linux servers and related applications hosted on Tomcat, applications written in Java and Node Js.

-Task monitoring and troubleshooting on the infrastructure/application using Grafana and Amazon CloudWatch Aws Support plus ticketing in Jira and Confluence plus internal ticketing tool.

-Kibana/Elastic Search for monitoring pods in Kubernetes. -

Jenkins pipelines integration, maintenance plus update in Git

4.ASC. CEZ ROMANIA:

Tasks and service attributions:

-SAP implementation.

-Monitoring/Resolving Online/Offline Petitions.

- Centralization of the need for fixed devices and IT consumables.

- DEO Analyst-Consultant. - SLA implementation and Jira and Confluence tickets.

5. DevOps and Freelancer Digister Project:

Tasks and service attributions:

-Monitoring and creating Grafana/Kibana/Prometheus metrics

- Pentatesting and troubleshooting on the part of LINUX and monitoring tools:

-Pentatesting Linux servers which includes the following tasks:

-.Security of SSH/Telnet network ports (22/23).

-.Identify Ghost Shell Processes.

-.Identify Root Kit/Siniffer/TCP Unknow Protocols/.

-Kibana/Elastic Search for monitoring pods in Kubernetes.

-Security of Unix interface and network Os-Patching, Os-Upgrade and everything related to linux security.

- KERNEL vulnerability testing with CVE (exploits/master/rk) and kernel recompilation or update as appropriate.

- Host/Target security (closing ports/firewalld rules or iptables/os-patching).

- Review users/permissions/accesses/

-Scanning linux servers to identify RK (root kit) or BD (BackDoor).

-Package update/os patching.

-Certificate openSSL / Change encryption layer.

-Traffic monitoring after securing: with KIBANA/SPLUNK/GRAFANA/ELASTIC SEARCH/NAGIOS.

-. Traffic scan after securing with WireShark or Nmap.

- DDOS identification for servers in production.

-Setting/Installing Fail2Ban.

- Setting/Installing Snort (a very efficient tool for everything related to traffic and scanning) -Setting fail2ban

-Setting iptables Tcpdump

- Resource allocation according to the requirements coming from the end customers (Capacity Management: Cpu/Ram/Hdd).

6. Linux Administrator at the Gedeon Association:

Tasks and service attributions:

-Responsibility for online/offline network infrastructure and maintained Server for Web-Hosting.

-Maintenance of IT equipment (Desktop/Laptop/Peripherals) as well as user allocation for Web-Hosting.

-Administration of Linux/Unix servers.

-Installation of Cpanel for all Linux distributions and Installation of switches/routers for extending the wireless/wired network.

-Administration of ACLs and Monitoring with Nmon./ Administration of e-mail server -Migration of OnPrem Physical Linux Servers to the cloud and apache server migration.

-Package update/os patching.

-Server maintenance in good conditions, checking and analysis of IP/IPTables/TcpDump traffic. Creation of Linux clusters.

-.Identify Ghost Shell Processes.

Professional/Technical Knowledge:

1. Ansible (2 years experience.)

2.Linux 7 years experience

3.Docker (1 year experience)

4. Kubernetes (1 year experience)

5. DynaTrace (1 year experience)

6. Jenkins (1 year experience.)

7. Aws Cloud (2 years experience) Ec2, Vpc, Iam, Cloud Watch, Aws Lamda, S3, AWS Cloudformation, Aws Migration Tool, Elb,

8. Linux (Red Hat; Centos; Ubuntu; Gento; Slackware; Debian; 8 years of experience)

9. Penetration testing/Ethical Hacking completed course.

10.Nagios Installation Customization Monitoring.

11. Jira / Confluence.

12.Grafana advanced. Plus AWS infrastructure scaling metrics.

13. Kibana and Elastic Search.

14. Splunk.

15. Iptables

16. Fortigate Firewall

17. Cloud Watch

18. Nmon

19. Redhat Automation Platform

20. Nmap

21. ZenMap

22. Wazuh

23. Nagios

24. Nginix

Skills and completed professional courses:

1. Course Systems Operations (Sys Op) on AWS advanced level (Diploma attached below).

2. Accredited course: DevOps Fundamentals: Docker, Jenkins, Kubernetes (Diploma attached below).

3. RHCSA (Red-Hat-Certified-System-Administrator) (Diploma attached below).

4. Course Ethical Hacking BUG BOUNTY (Diploma attached below).

5. Ansible Fundamentals advanced level course (Diploma attached below).

6. Ansible Advanced - Hands-On – DevOps (Diploma attached below).

7. Jenkins Fundamentas - Build & Test software (Diploma attached below). 8. Ansible Fundamentals (Diploma attached below).

Language: English / Good English skills

Education and Training:

"Constantin Brancusi" Faculty of Legal and Administrative Sciences graduated with a bachelor's degree.

Below are the Certifications/Diplomas of participation in courses and competencies:

Certificate of Completion

Has been presented to:

Catalin Caldararu

On successful completion of the authorized Amazon training course:

Systems Operations on AWS

Date: **28.04.2021**
Learning Partner: **Bittnet Systems**

Victor Popescu
Instructor

bittnet
Your skills. Upgraded.

amazon web services | Partner Network
AUTHORIZED TRAINING PARTNER

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redhat.

Certificate of Attendance

Cătălin Căldăraru
has attended and completed

**RH199 - RHCSA
Rapid Track Course**

from 29/08/2022 - 02/09/2022
Version: Red Hat Enterprise Linux 9

IT training

Andrei Balint, Certified trainer

Diplomă de promovare
Catalin Caldararu

Jenkins Fundamentas - Build & Test software

Prin promovarea cursului se confirmă dobândirea următoarelor cunoștințe:

- Cum sa instalezi si sa configurezi Jenkins
- Integrarea Jenkins-ului cu alte sisteme precum Git si Maven
- Conceptul de job-uri de Jenkins-ul
- Testare si livrare continua in cadrul echipe utilizand Jenkins
- Manipularea plugin-urilor de Jenkins
- Conceptul de "Jenkins pipeline" si "Jenkinsfile"
- Construirea automata a proiectului

Cristian Deacu, Manager

Data eliberarii: September 29, 2021

Diplomă de promovare
Catalin Caldararu

Ansible Fundamentals

Prin promovarea cursului se confirmă dobândirea următoarelor cunoștințe:

- Sa creezi si sa definesti variabile intr-un fisier de tip YAML
- Sa manipulezi diferite tipuri de structuri date aplicabile in fisierele de tip YAML
- Sa utilizezi fisierele YAML pentru configurarea notiunilor introductive in Ansible
- Sa utilizezi Ansible Playbook si Ansible Ad-Hoc
- Sa aplici engine-ul de Jinja in Ansible
- Sa definesti un rol in Ansible
- Sa utilizezi documentatia Ansible prin ansible-docs

Cristian Deacu, Manager

Data eliberarii: March 12, 2021

Dear Caldararu Catalin,

Congratulations on successfully completing the NDG Linux Essentials course in the Cisco Networking Academy. By completing this course, you are now prepared to earn the Linux Essentials Professional Development Certificate from the Linux Professional Institute (LPI).

Today's job market is competitive, but the rewards are worth it. With employers reporting they are paying salaries well above company norms, paying out bigger bonuses, and offering flexible schedules, there has never been a better time to have strong Linux abilities. Verifying your skills with a professional certificate can be a great way to stand out from other candidates, by proving you have the technical abilities required for the job. Become a stronger prospect in the job market by pairing our certificate with other industry-recognized certifications such as Cisco Certified Network Associate (CCNA).

OBTAINING THE LINUX ESSENTIALS PROFESSIONAL DEVELOPMENT CERTIFICATE SHOWS THAT YOU:

- Understand the Linux operating system
- Have demonstrated the ability to navigate a Linux system
- Can execute the power of the Linux command line
- Possess knowledge of Linux security and file permissions
- Have the motivation to advance your IT career

Go to LPI.org to learn more about the Linux Essentials Professional Development Certificate!

Sincerely,
The NDG Team

NDG LINUX SERIES

We hope you'll continue your Linux studies with the NDG Introduction to Linux I course. This course prepares you for the LPIC-1 101 Exam, the first of two towards the LPIC-1 Linux Server Professional certification from the Linux Professional Institute (LPI). The LPIC-1 certification will show you have the in-demand Linux skills that employers are seeking.

Date 1 Apr 2021

eta-2u
TRAINING CENTER

DIPLOMĂ DE PARTICIPARE

Caldararu Catalin

A ABSOLVIT CURSUL .... DevOps Docker, Jenkins, Kubernetes, Fundamentals

DESFĂȘURAT ÎN PERIOADA .... 22.06.2020 - 26.06.2020

Mariana Radu
Director ETA2U Training Center

Alin SFREDEL
Trainer

Microsoft ORACLE anc ECDL European Computer Driving Licence PROMETRIC PEARSON VUE

Certificate of Completion

This is to certify that **Catalin Caldararu**
successfully completed 4 total hours of ***Ansible***
Advanced - Hands-On - DevOps online course on
Feb. 1, 2021

Mumshad Mannambeth
Mumshad Mannambeth, Instructor

KodeKloud Training
KodeKloud Training, Instructor

&

𝒰 **Udemy**

Certificate no: UC-602ba422-5d94-4392-a88d-303cfb0a717a
Certificate url: ude.my/UC-602ba422-5d94-4392-a88d-303cfb0a717a
Version 3

#BeAble

Certificate of Completion

This is to certify that **Catalin Caldararu**
successfully completed 1.5 total hours of **Curs**
Ethical Hacking [Română] online course on June
27, 2020

Radu Popescu
Radu Popescu, Instructor

&

𝒰 **Udemy**

Certificate no: UC-2648ab0c-0292-4708-ab61-0407717337bb
Certificate url: ude.my/UC-2648ab0c-0292-4708-ab61-0407717337bb

#BeAble

Social skills and competences:

- Team spirit, increased adaptability, communication, seriousness, ability to assimilate new information and skills. -Availability for involvement in socio-cultural activities, skills acquired following the realization of numerous group projects in the framework of workplace activities and volunteering activities.

- Leadership skills, capacity for synthesis and analysis, decision-making skills, organizational spirit, coordination skills.

- Punctuality, the ability to make decisions under stress and to meet deadlines.

- Ability to analyze tasks and break down responsibilities.

- Ability to evaluate the professional skills of collaborators.

- Analytical spirit.

- Work in a team and a good integration in the teams adjacent to a project of high and medium complexity.