



# Kebairia Zakaria


(Last updated November 11, 2021.)

## Basic Info

 : [4.kebairia@gmail.com](mailto:4.kebairia@gmail.com)  : [github.com/kebairia](https://github.com/kebairia)  
 : [linkedin/in/zakaria-kebairia](https://www.linkedin.com/in/zakaria-kebairia)  : <https://www.kebairia.github.io>  
 : 0674696662  : 3Point14


- Master's degree, Computer Science Engineer [ESI-SBA](#) .
- Linux System Administrator (Ubuntu, Debian, RedHat, CentOS).
- Network Administrator (Cisco).
- Maintainer and developer of an Arch Linux- Auto-Ricing Script Under the name [ZARS](#) .
- I am an open source enthusiast and contribute in my free time. You can check the public code and projects that I'm involved in [here](#).


## Education


2015–2021 | **Master's Degree in Computer Science (Computer Science Engineer)**  
*Higher School of of Computer Science 08 May 1945 - Sidi Bel Abbes* – [ESI-SBA](#) 

- **Thesis** “Edge and Fog Computing Based Video Management System” (Supervised by [Pr. Rahmoun Abdellatif](#)).
- **Graduate Coursework includes:** Internet of Things, Edge and Fog Computing, Video Management Systems, Infrastructure as Code, Virtualization, Containerization, System Administration, DevOps, Networking.


## Certifications


JUL 2019 | **RedHat Certified System Administrator**   
RHCSA

OCT 2019 | **Juniper Networks Certified Associate – Cloud**   
JNCIA-Cloud

FEB 2020 | **Cisco Certified Network Associate Routing and Switching**   
CCNA

## Internships

SEP 2019 | **Internship in ICTTOWERS**   
*Sidi Bel Abess*

MAR – SEP 2021 | **System Engineering internship** [ESI-SBA](#)   
*LABRI Research Center SBA & URD-SE internship – Sidi Bel Abbès, Algeria* “Serverless Edge Computing: Application for Real-Time Suspicious Behavior Detection using Deep Learning” Developing a fully automated multi-layer infrastructure for Real-Time Suspicious Behavior Detection Using Deep Learning Techniques, using Edge and Fog Computing Architecture with DevOps and Performance testing activities, developing automation frameworks, scalability Using Vagrant, Ansible and Packer, Docker, Kubernetes, High Availability using Pacemaker, HAProxy, Keepalived for services and GlusterFS, NFS-Ganesha for file system server.

## Accomplishments

---

### Professional Courses

- (CCNP ROUTE) Implementing Cisco IP Routing (ICTTowers, Sidi bel Abess)
- (CCNP SWITCH) Implementing Cisco IP Switching (in ICTTowers, Sidi bel Abess)
- Cisco Networking & Security Fundamentals (in ICTTowers, Sidi bel Abess)
- Implementing Cisco IOS Network Security (IINS-CCNA Security) (in ICTTowers, Sidi bel Abess)

### Projects

JUN 2018	<b>"Logiciel de gestion de Bibliotheque"</b> Sidi Bel Abess
JUN 2019	<b>"Logiciel de gestion personnel"</b> Sidi Bel Abess
JUN 2020	<b>"microservices infrastructure for surveillance cameras"</b> Sidi Bel Abess
MAR – SEP 2021	<b>"Serverless Edge Computing: Application for Real-Time Suspicious Behavior Detection using Deep Learning"</b> <i>Developing a full automated infrastructure for Real-Time Suspicious Behavior Detection Using Deep Learning Techniques, on an Edge Computing Architecture with DevOps and Performance testing activities, developing automation frameworks, scalability Using Vagrant, Ansible and Packer, Docker, Kubernetes, High Availability using Pacemaker HAProxy, Keepalived for services and GlusterFS, NFS-Ganesha for filesystem server ...</i>

### Awards

- 🏆 **1st Place** (nationally) in Graphic Design category Festival "Bahjah"
- 🏆 MLH orgnized by Github & Microsoft ESI-SBA "2019"
- 🏆 **6th/30 Place** Coding Challenge ESI-SBA "2019"

## Skills







---

OS	<b>Linux Servers</b> (RedHat, CentOS, Ubuntu, Debian) <b>BSD servers</b> <b>Windows...</b>
SYSTEM ADMINISTRATION	<b>High Availability</b> (HAProxy, Keepalived, Pacemaker) <b>Security</b> (Standards Linux Permissions, ACL, SELinux) <b>Troubelshooting</b> <b>Network Services</b> (DNS, DHCP, NFS, SMB, iSCSI) <b>Storage</b> (GlusterFS, NFS-Ganesha) <b>Monitoring</b> (Zabbix, Grafana, Prometheus) <b>Authentication</b> (LDAP, Kerberos)
DEVOPS	Anisble, Vagrant, Git, Docker, Packer, Terraform
VIRTUALIZATION	KVM & QEMU, VirtualBox, Proxmox




NETWORKING		Cisco IOS, Routing & Switching Protocols, GNS3
DATABASES		MySQL
GRAPHIC DESIGN		Inkscape, Gimp, Photoshop, Blender

## Public Code and Scripts

---

STARTED 2021		<b>3pnt14</b>  <i>GitHub account for my Youtube channel</i> I keep a separate GitHub account for my YouTube video code, the YouTube channel's website, and so on.
STARTED 2020		<b>micro-emacs(emacs distrobution)</b>  <i>Minimal, Well Designed distribution of emacs.</i> An Emacs Distribution that i maintain, for developing, fully featured scientific papers editor, organizer, and many more...
STARTED 2020		<b>ZARS</b>  <i>Arch, Arch-based auto-ricing/config script</i> An Automation Script that i maintaine, for auto ricing and Configurations of Any Arch based distrobution, aims on minimalisim, security, efficiency and beauty
STARTED 2021		<b>vagrant-cluster</b>  <i>a fully automated cluster of virtual machines</i> I developed my own configuration file for generating a completely automated cluster of virtual machines using vagrant as the provisioner and kvm as the hypervisor. You can provide everything you need for a virtual machine in this configuration file, including the number of CPU cores, RAM, virtual network interfaces of various types, multiple partitions, and so on.
STARTED 2021		<b>org-master</b>  <i>Emacs Distribution for scientific/thesis writing</i> I'm working on an Emacs distribution for scientific/thesis writing, with the purpose of creating a self-contained application that handles and simplifies the way we write academic papers.
STARTED 2020		<b>Braindump</b>  <i>Zettelkasten note taking program</i> A note-taking strategy based on a zettelkasten, with the purpose of creating a braindump and improving a person's intellectual life

### Other

- My [Emacs's Configuration](#) 
- My build of the the suckless [simple terminal \(st\)](#)  with added homerow binds and small improvements.
- My build of the the suckless [dwm window manager \(dwm\)](#)  a well design, fully function distro of dwm.

## Tools I Use

---

### Usual Workflow

I use a **vim**-based setup in a tiling window manager (**dwm**). I compile documents using **Org-mode** with **Emacs** or **L<sup>A</sup>T<sub>E</sub>X**, and **biber** for references. I prefer to do multimedia manipulation in the terminal with tools like **imagemagick** and **ffmpeg** for extensibility's sake. I've run Microsoft, MacOS and GNU/Linux systems (both Debian and Arch-based varieties, as well as Void Linux, Artix...etc).

### Programs I'm Familiar With

tmux, ssh, EMACS, Blender , Audacity, GIMP. I've managed websites manually via ssh and vim using HTML/CSS/PHP and with tools such as Github Pages (Jekyll, Hugo and Org mode), WordPress via either cpanel or wp-cli. Some experience with myBB.

## Classes I Taught

---

I Taught 80+ students on the basic of UNIX/Linux, System Administration, Network Administration, RHCSA & RHCE for 3 years

2018–2019	<b>RHCSA Courses– “RedHat Certified System Administrator” –</b> <i>Higher School of of Computer Science 08 May 1945 - Sidi Bel Abbes – <a href="#">ESI-SBA</a> <a href="#">www</a></i>
2019–2020	<b>RHCSA Courses– “RedHat Certified System Administrator” –</b> <i>Higher School of of Computer Science 08 May 1945 - Sidi Bel Abbes – <a href="#">ESI-SBA</a> <a href="#">www</a> – Ingeniums Club</i>
2020–2021	<b>RedHat Special Course(AlphaBit’s Cells Program)– “became a Linux expert” –</b> <i>Higher School of of Computer Science 08 May 1945 - Sidi Bel Abbes – <a href="#">ESI-SBA</a> <a href="#">www</a> – AlphaBit Club</i>

## Presentations

---

2015	<b>Design – “Your first steps into the world of Design”</b> <i>Yahiya Fares University(Medea)</i>
2017	<b>Design – “Introduction for Design World”</b> <i>Higher School of of Computer Science 08 May 1945 - Sidi Bel Abbes – <a href="#">ESI-SBA</a> <a href="#">www</a></i>
2017	<b>“Introduction for Gnu-Linux” –Basics of system installation &amp; daily handling of it</b> 🎧 <i>Yahiya Fares University(Medea)</i>
2018	<b>“Linux Installation Party”</b> <i>Yahiya Fares University(Medea)</i>
2019	<b>“Linux Installation Party”</b> 🎧 <i>Higher School of of Computer Science 08 May 1945 - Sidi Bel Abbes – <a href="#">ESI-SBA</a> <a href="#">www</a> – Ingeniums Club</i>

## Languages

---

HUMAN	Arabic(Native Language), French, English
MACHINE	<b>Python</b> (numpy, manim, matplotlib, scripting...) <b>Bash/shell</b> (sed, awk, and general scripting) R, C, Java, GNU Octave, Elisp.

## Writings

---

### My Personal Blog

I often post some articles on my blog on topics that interest me

### Hobbies

---

Philosophy (especially philosophy of science, epistemology and philosophy of religion), human evolution and prehistory, free (i.e. libre) software, survivalism, medieval thought.

### References

---

Email me 📧 or reach me on LinkedIn [www](#).