

RESUME

Ramy Ragab Allam Abd-Alfatah

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Education

2009 - 2011 Alexandria Higher Institute of Engineering & Technology (AIET)

2011 - 2015 Albuhaiera Higher Institute of Engineering & Technology (BHI47)

Degree: Bachelor, Computer Engineering

Personal Information

Date of Birth: January 4th, 1992

Gender: Male

Nationality: Egyptian

Marital Status: Single

Languages

Arabic: Mother Language

English: Professional working proficiency

Technical Skills

Programming Languages

Python and Bash Scripting.

Operating Systems

GNU/Linux (CentOS, CloudLinux, RHEL, Fedora Core, Debian and Ubuntu) - Expert as System Administrator.

Technical Skills

Experienced in installation, configuration, performance tuning, and troubleshooting of :

- WebServers (Apache - Nginx)
- SQL and NoSQL Servers (MySQL - Percona - MariaDB - MongoDB)
- Mail Servers (PostFix - Exim - Dovecot - Courier - iRedMail)
- FTP Servers (Pure-FTP - ProFTP - vsFTP)
- PHP Handlers and Process MGT (DSO - FCGI - suPHP - PHP-FPM)
- DNS Servers (Bind - cPanel DNS Clustering)
- VPN (OpenVPN - PPTP)
- Monitoring and Analytics (Opsview - Nagios - NewRelic - Pingdom)
- Control Panels (cPanel/WHM - Kloxo - ISPConfig)
- Storage (RAID - NFS - GlusterFS - DRBD and CEPH).
- DataBase Replication (MySQL Replication - MongoDB replicaset)
- LoadBalancer and FailOver (HAProxy - HeartBeat - KeepAlive - crm and Pacemaker - AnyCast)
- Proxy and Caching (Nginx - Apache modproxy - MemCache - Redis)
- Security (IPTables - CSF - CSX - ModSecurity - CageFS - Audting - DDOS Protection using GRE - WAF and CDN)
- Backup (Rsync - Lsync - Mysqldump - XtraBackup - MongoDump - cPanel Backup - R1Soft)
- DevOps (Git - Chef - Bash - Python - Docker - NewRelic - Jenkins)

Virtualization, Containers and Cloud Computing

- Virtualization software (KVM - OpenVZ - XenServer)
- Cloud Computing Software (OpenStack RDO - Mirantis OpenStack)
- Public Cloud Providers (AWS - RackSpace - DigitalOcean - Linode - Google Cloud)
- Containers (Docker)

Self-Study Courses

- Cisco Certified Network Associate (CCNA)
- Red Hat Certified Engineer (RHCE)
- Linux Professional Institute Certification (LPIC)
- cPanel Base Certification::Technical (UAK : dyau-259880)

Work Experience

- **3jenan.com**
Jan 2007 - April 2010
Senior System Administrator
- **Dimofinf.net.sa**
April 2010 - March 2011
Linux System Administrator & VP of Hosting

March 2011 - July 2014
Linux Admin L3 & Moderator of Hosting & Servers department

September 2014 - Present
Linux Admin L3 & CTO

Projects

- **3JENAN Network**
Design and Implementation of Virtual Private Network (VPN) for one of the leading hosting companies (3jenan.com) in KSA to connect company staff to each other and to limit access to servers critical ports to be accessed only via the company's network.
- **3JENAN Monitor**
OpsView monitoring System which used to monitor company and customers servers with an immediate alert for servers/services issues.
- **3JENAN Authentication System**
An authentication system which connects all servers securely. To provide Clustered and centralized Authentication System from one place using bash scripting and SSH-Keys authentication.
- **Alweeam news portal**
Implementing High Availability system to use loadbalancing and failover for most of running services (HTTP, MySQL . Storage)
- **DimofinfBS Firewall system**
Implementing a firewall system for Dimofinf Backup services using bash scripting and iptables.
- **Kloxo Firewall System**
Implementing a firewall system for Kloxo Control Panel using bash scripting and iptables.
- **MasterLog**
MasterLog is an OpenSource project for Centralized SSH Authentication System. Using this project user can login to all servers from one place in a simply fast way. It has many features such as (Servers groups , Mass commands execution , Mass kernel update, Logging system and more).
- **Dimofinf Engineer**
Writing a Desktop application in python/tkinter for Dimofinf webhosting customers whom having DNS Cache issue. Using this app customer can :
- Apply entries in hosts file.

- Ping and Traceroute functionality.
- Flush DNS

- **SABQ News Portal**

- Rebuilding Sabq.org news portal hosting infrastructure to achieve the better performance, scalability and uptime.
- Rebuilding Storage and CDN infrastructure.
- Rebuilding MySQL HA Systems with Percona/XtraDB integrated.
- Optimizing the database indexing, minimizing locking on tables and queries caching.

- **Dimofinf Cloud Servers**

- Building IaaS based on OpenStack.
- Building highly distributed storage cluster using CEPH.
- Managing public and private cloud environments.
- Technical Documentations and training for Dimofinf hosting staff.

- **Dimofinf DevOps Department**

- Establishing and managing a new DevOps department for Dimofinf
- Technical training and documentations for Dimofinf DevOps Engineers to achieve highly standards of continuous integration and development environment.
- Continuously writing and developing recipes of our configuration management and version control systems.
- Building new monitoring system for BigData infrastructures and enterprise customers.

- **Sabq Online Newspaper v2.0**

Sabq.org is the most visited online news portal in KSA. At Dimofinf we were the webhosting and servers management of sabq infrastructure. I was involved in designing a highly available distributed cluster and performance boosted system for the totally new version of SABQ.

From scratch we designed network, storage, web, databases, caching, firewall, virtualization, staging and CDN servers. I was the project hosting technical manager and the team leader of the DevOps team whom are working on daily basis to achieve the DevOps culture and standards including continuous integration, continuous development, benchmark and testing and writing recipes for the configuration management system to convert the infrastructure to an easily developing code.

I was also responsible for writing technical documentations for the whole infrastructure and a trainer for Dimofinf Linux engineers.

- **RsyncHero**

A python tool to run rsync backup for hundreds of servers in parallel with a workers limit to increase the backup performance and speedup the process for both the backup server and the clients.

- **Leaseweb Python APIs**

I wrote multiple python API tools for leaseweb datacenter customers to help them do the following :

- Managing invoices for large-scale customers to convert from CSV to a clean and formatted XLSX datasheet.
- Export BareMetal and VirtualServers IPs pool per server to a datasheet.
- Export Baremetal product information including the server hardware, network details and the contract period into a datasheet.
- Managing Baremetal and VirtualServers IPs using a web-based application to search for the IP address and it's related server product and the validation of the customer ownership.

Activities

- **Moderator** of WebHosting and servers management department at ArabWebTalk.com (July 2009 – April 2011)
- **Linux Hosting Training Course – Trainer** at Aldarayn Academy (July 2014)
- **Technical Blogger – WebHosting Technical Forums & My Blog**

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