



# Sassan Torabkheslat

May 14, 2020

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## EDUCATION

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**BS Computer Software Engineering** 2011-2013  
*Jahaad Daneshgahi Institute of Technology*  
“Difference between virtualizations models (Full vs paravirtualized vs OS level”  
Thesis advisor: Eng. Moslehi (Poland)

**Associates Degree, Software Engineer** 2009-2011  
*Shahid Chamran University of Ahvaz*

## PROFESSIONAL SUMMARY

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Working As linux system administrator from junior level to senior level in various companies and various situations , Years of experience working in high stressed environments and with an expert network of friends and colleagues in this field. Here is some of main aspects of IT that I've studied and worked in includes:

- Linux OS Administration
- Databases (MySQL, MariaDB, Oracle Database 11g/12c ,...)
- Web/Application Servers (Apache HTTPD, JBOSS, Websphere, Weblogic,...)
- Mail servers (Postfix, Dovecot, courier)
- Virtualization (KVM, Ovirt, VMware ESX,...)
- Monitoring Solutions (Zabbix, Icinga , ....)
- OS Hardening and Optimization (Redhat, Ubuntu, Debian)
- Develop Customized modules in C/C++ for performance improvement
- Kernel optimizations for high load servers
- Design HA and LB solutions for different kind of services
- Design Cloud containers based on Kubernetes and RedHat OKD

# APPOINTMENTS

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## Senior System Engineer

Dec 2016 - Now

### Farabord Dadehaye Iranian (ZiTel)

- Maintain and Support Systems and services (24\*7)
- Setup Distributed Monitoring System based on Zabbix (more than 800 hosts and 400k items)
- Setup integrated Identity and Authentication RedHat FreeIPA and integrate with Microsoft ActiveDirectory
- Setup Open DNS servers to serve more than 120,000 request per seconds on BSD (Unbound) and Linux
- Monitoring and Provisioning CPE devices via tr-069 protocol
- Setup Virtual Datacenter by Redhat-Ovirt
- Develop Customized modules in C/C++ to performance improvement
- Setup Mail Services (Postfix,Dovecot) and troubleshooting serious problems
- Design and Implement CG-NAT with NFF-Go on DPDK
- Design and Implement varius systems
- Write ACS Server (with C/C++ and gSoap) to handle (and provision) more than 10K CPEs simultaneously.

## Linux System Administrator

Feb 2014- Sep 2016

### Mobile Communication Company of Iran (MCI) Contractor (Portal & Email)

- Maintain and Support Systems and services (24\*7)
- Setup Monitoring Systems like Zabbix / Zenoss to monitor and provision server/service needs
- Setup and install Solaris/Linux (Sparc/x86\_64)
- Kernel optimizations for high load servers
- Kernel Customization to enable/disable needed features (such as OCFS2 on CentOS 6.4)
- Apache/Jboss/Tomcat/MySQL...performance tuning for high load services
- Setup Varnish (HTTP accelerator) in front of clustered web servers to decrease visitors pressure on web server (about 80% hit ratio)
- Solved technical problems in high-pressure situations as the primary escalation point for high-priority, complex issues and outage recovery
- Implemented security policies, monitored unusual traffic patterns, bandwidths, and vulnerabilities.

- Created Automated Provisioning and update processes using integrated OS Tools
- Installing, Configuring, Managing, Monitoring different kind of servers and services (DNS, MAIL, WEB, FIREWALL etc.)
- Installed Servers for Web Development and Database applications using Apache/Mysql
- Configure Linux servers to access SAN and NFS
- Monitoring TCP/IP network environment and experience with HTTP
- Configured and trouble shoot issues with APACHE, MYSQL, & PHP web servers.
- Experienced in system Security using ACL and RBAC
- Mysql/MariaDB Clustering (Multi Master Replication)
- Setup Mail Services (Postfix,Dovecot) and troubleshooting serious problems (100 msg/sec)
- Designed and implemented High Availability (HA) clusters using shared file systems , HaProxy , Pacemaker.
- Setup JEE Clustered Services based on Jboss Application Server and Tomcat
- Experience in Security Hardening in UNIX, Linux
- Setup Cluster File Systems for shared storage on SAN (ocfs2 , gfs2)
- Setup Portal Search Engine Based on Apache Solr
- Exposure on Performance using Load Runner JMeter, ab on Mail , REST and SOAP Web-Service, HTTP Web, Database
- Setup Apache Security modules (such as mod-security) in production environment

### **Rightel Contractor (Portal)**

- Maintain and Support Systems and services as second layer
- Setup Monitoring Systems like Zabbix to monitor and provision server/service needs
- Kernel optimizations for high load services (12K L7 concurrent request , 22K L7 req/sec , 524K connection track)
- Setup Varnish (HTTP accelerator) in front of HaProxy load balancers for balancing request between web servers to decrease visitors pressure on web server (about 80% hit ratio)
- Setup Oracle Database 12c (in Standalone) as OCS and provisioning Database - Backup node
- Setup and maintenance Oracle Service Bus (osb) in clusterd environment as part of OCS system
- Apache/Tomcat/Mysql ...performance tuning for high load services
- Solved technical problems in high-pressure situations as the primary escalation point for high-priority, complex issues and outage recovery

- Implemented security policies, monitored unusual traffic patterns, bandwidths, and vulnerabilities.
- Design and Implement DNS Round-Robin Load-Balancing For Portal High-Availability
- Installed Servers for Web Development and Database applications using Apache/MySQL
- Design and implement High Availability (HA) clusters using shared file systems , HaProxy , Pacemaker.
- MySQL/MariaDB Clustering (Multi Master Replication)
- Setup Cluster File Systems for shared storage on SAN (ocfs2)
- Container base virtualization for Apache Web Server.

## SKILLS

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- General Linux System Administrations
- Zabbix/ICingna/Cacti
- C/C++ and GoLang module development
- NFF-Go Development
- DPDK Development
- Postfix , Dovecot , SOGo Mail Collaboration
- gSoap
- OpenShift Origin (OKD)
- OVirt
- TR-069
- GlusterFS
- MySQL , MariaDB Clustering
- Varios services tunings
- Apache Web Server,MPM worker,prefork
- HaProxy tcp/http loadbalancer
- Firewall eg. Selinux, IPtables, PFSense
- DNS Service
- Varnish http accelerator
- Apache Traffic Server
- Kernel TCP Tuning
- Jboss , Tomcat JEE Services
- Bash/Python Scripting
- Container base services by lxc and Docker
- Stress and Security tests by varios tools and methods
- Clustering by Paceaker

## CERTIFICATES

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- **Linux Professional Institute Certification Level 1:** (LPIC-1)  
LPI ID: LPI000258584  
Verification: amary4pxcj  
Expire: 2022-04-20
  
- **Linux Professional Institute Certification Level 2:** (LPIC-2)  
LPI ID: LPI000258584  
Verification: amary4pxcj  
Expire: 2022-04-20
  
- **SUSE Certified Linux Professional:** (SUSE CLP)  
Suse Linux Enterprise 12  
Certification ID: 10199701
  
- **Novel Certified Linux Administrator:** (Novel CLA)  
Suse Linux Enterprise 11  
Certification ID: 10199701
  
- **Mikrotik Certified Network Administrator:** (MTCNA)  
Verification: #1303NA146