**Mohammad Hadi Saadat**

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## PROFILE

I am an IT professional with more than 13-year of successful experience in designing, implementation, testing, administering and troubleshooting on IT and infrastructure critical services. I was a key technical resource in several projects ranging from small businesses to enterprises. I am a system engineer, administrator and constantly have my certifications updated and recently focused my career on VMWare virtualization technologies including server, desktop and networking and also well familiar with Microsoft and Cisco in the era. I had also some scaled projects on Design and implementing Data Center core networking infrastructure, Storage, Virtualization, and high availability/load balancing solutions. I am perfectly flexible to work individually or as a team member, under pressure and time constrained projects. Being adaptive, energetic, ambitious, practical and very keen to learn and stay updated with the latest technologies advancements were my key factors in a successful career to me so far.

## KEY SKILLS

- Design and Implantation Infrastructure Data Center
- Design Data Center Network: base on Cisco Nexus Solution
- Design Data Center Storage: base on HP 3 par or EMC Solution
- Network Virtualization with VMWare NSX

- Backup & Replication: Veeam Backup & Replication, vSphere Data Protection, Symantec Backup Exec, vSphere, Veritas NetBackup, Replication and Site Recovery Manager

- Network: CCNP Data Center , CCNP Route& Switch
- Storage: SAN Storage and SAN Switching (Hard and soft zoning and cabling (HP and EMC), NAS Storages (iSCSI&NFS).Tape Storages like HP MSL series.
- Load Balancing Solution : F5 Big IP
- Desktop virtualization: VMWare Horizon
- Application and User environment virtualization: VMWare AppVolume & UEM
- Microsoft Services :AD, DNS, Lynk, DHCP,NLB,IIS
- VOIP : Elastics

- Monitoring solutions: VMWare vSphere Operations Manager, PRTG, Solar winds
- Log Analysis Software: Alienvult ,VMWare Log insight

## EDUCATION

Master`s degree ,Field of study : Information Technology

Bachelor of Applied Science: Telecommunications engineering

## TRANING

| Course | Institute |
|---|---|
| EMC – Information Storage & Management | Tehran-IRIB &Dubai |
| ITIL v3 | Tehran-IRIB |
| CCNP Data Center | Tehran-IRIB |
| CCNA Data Center | Tehran-IRIB |
| F5 Load Balancer | Tehran-IRIB |
| CCNP Route And Switch | Tehran-Mehr Eghtesad Bank |
| Linux | Tehran-Mehr Eghtesad Bank |
| VMWare VCP | Tehran-IRIB |
| TIA-942 | Tehran-IRIB |
| CDN(Content Delivery Network ) | Tehran-IRIB |
| CCNA Data Center | Tehran-IRIB |
| CCNA | Tehran-Mehr Eghtesad Bank |

## PROFESSIONAL EXPERIENCE

**End User Computing Design & implementation**                     **2015 - 2018**
**MCI Co.**
**About MCI**
MCI is the Iranian main telecom career. At 2015, they decided to transform their traditional desktop infrastructure into a more robust in management, security and delivery technologies, which today known as End User Computing. After a thorough inspection of solutions available in market, finally they chose to implement VMWare Horizon View, mainly because it was answering all needs at the time. They also wanted a very granular firewall solution compared to traditional ones. I.e. white listing access control in contrast to black listing, Eliminating desktop-to-desktop hacking etc.
Project scope was MCI Operation center, where they are providing contractors and telecom operators access to their systems including servers and BTS antennas. We started at 500 users and it should be capable of hosting ~2000 at the end.

## Responsibilities

- ➤ Technical Manager
- ➤ Profile current environment including applications and required accesses
- ➤ Consolidate VMs as much as possible
- ➤ Implementing a comprehensive monitoring solution to make it real convenient to spot performance issues quickly and proactively, when possible
- ➤ regarding security concerns, implementing network virtualization techniques and technologies was a must
- ➤ Virtualization in every aspect to gain most flexibility and reducing CAPEX. I.e. firewalls and load balancers
- ➤ Logging at all layers from Active Directory authentication to firewall rules
- ➤ Persistent user experience and environment while eliminating the need to assign a dedicated and persistent desktop to each of them
- ➤ Providing just application access instead of a full desktop, when practicable
- ➤ Destroying used desktops as fast as possible and eliminate any lingering thread surfaces
- ➤ Extending usability period of client PCs, by shifting their compute requirements into datacenter
- ➤ Making day 2 operations much more easy and accurate as far as possible

## Achievements

- ➤ By designing and implementing VMWare Horizon Enterprise along with VMWare NSX we managed to meet almost all project requirements
- ➤ With Horizon RDS Apps, about 40% of end users could access most of their application access needs without lunching a full desktop
- ➤ All users' environment and experience managed through VMWare UEM. With that event while accessing RDS apps they have their settings and customization along
- ➤ VMWare AppVolume played a great role in application virtualization side of the project, where we extracted most of the not-popular apps and providing them while needed. This helped having much more light parent images in contrast with installing all apps in the images or creating so many different desktop pools
- ➤ With the aim of VMWare NSX, we perfectly designed and created a micro-segmented underlying network, which could obviously meet the security concerns and criteria of the project. Finally, users could only access exactly their assigned services and servers (completely whitelisted)
- ➤ Successfully managed to implement VMWare NSX one-armed load balancer in front of VMWare Horizon Connection Servers to perfectly load balance incoming traffic at layer-7
- ➤ With Horizon Instant Clone technology, we managed to have completely non-persistent desktops and assigning a fresh one upon every user login. Along with other techniques, providing users a consistent experience and eventually Day 2 operation requirements met.
- ➤ Locating all users data and setting on Windows Server clustered file servers, made it easy to backup only required business data
- ➤ With the aim of HP 3PAR 7400 storage, we got the best storage performance and reliability as the underlying storage subsystem
- ➤ As logging was one of the most important part of the solution, we implemented vRealize Log Insight to centralize all network and firewall access logs, Domain Authentication logs and VMWare Horizon. Virtually, all logs across different services including devices like network/ SAN switches and the storage were aggregated. It allows us to generate all required alerts based on wide variety of different events. The security department wanted all of them to be forwarded to their own S.O.E.M solution for further analisys
- ➤ Monitoring the entire solution was the key point in allowing the support to find the weak spot as fast as possible and even proactively. Therefore, we implemented vRealize Operation Manager with its perfect integration into the solution with its management packs. With that, support could monitor the system

comprehensively with just one tool. Having capacity reports and finding problems in remote desktop sessions is a few of all the benefits gained

➢ Implementing a Veeam Backup Server with 70TB DAS storage as an on-site backup/recovery solution. All management components including file server which contains user's data are being backed up based on agreed upon RTOs and RPOs

## IT Consultant                                                                 2012-2018

## Electronic Kart Damavand (ECD)

## About Electronic Kart Damavand

A consortium of individuals and legal entities active in the field of electronics, money and banking, computers, networks, services and electronic equipment has begun to set up electronic payment services. Finally, on January 1, 2008, The Central Bank of the Islamic Republic of Iran issued the permission for the permanent activities. ECD is one of twelve-payment Service provider in Iran. For business development, they have to design a new Data Center , increase security levels and pass periodic check of The Shaparak Company.

### Responsibilities

➢ IT Consultant
➢ Design and implementation of the infrastructure   New Data Center
➢ Design and implementation of the active New Data Center
➢ Design and implementation of the  new network in WAN and LAN and Data center
➢ Design and implementation of the new Storage Network and Storage zone
➢ Design and implementation of the network security policy
➢ Designing and implementing  VMware Virtualization
➢ Designing and implementing the load balancer and SSL off loader
➢ Design and implementation of the DR Data Center
➢ Design and implementation Backup Solution
➢ Migrate old Data Center to new Data Center
➢ Assesses the scope of improvement in the existing systems and work on modifying them to enhance their quality
➢ Provide technical support to staff members
➢ Creating and evaluating model systems
➢ Build, launch and test new system to perform desired functions without fault
➢ Maintaining the software systems
➢ Continuously inspecting systems for security issues and best hardening mechanisms
➢ Upgrade the systems from time to time
➢ Understand the client's requirement and budget and work on creating or upgrading systems accordingly
➢ Provide training on newly created systems to the staff members who are expected to work on those systems
➢ Stay in a tight coordination with other departments to complete development and upgrading projects
➢ Preparing and providing reports on the work progress and done individually or by the other staff members
➢ Preparing and updating documents of newly developed systems

### Achievements

➢ Designing and implementing the network between Shaparak and payment Switch and Meganac and POS with F5 load balancer and SSL off loader
➢ Designing and implementing Data Center Core Network Based On Cisco 3850

- Design and implementation of high availability(HA) between two Juniper 550 Firewalls for Data Center Core Security
- Design and implementation of the Data Center infrastructure Based on TIA 942
- Design and implementation of the full redundant Data Center
- Design and configuration of the WAN network Based On EIGRP
- MPLS configuration between provinces and urban
- Edge layer Configuration
- implementing and administering SIEM system by Alienvault Software
- implementing and administering Forti WAF and Juniper SRX
- implementing and administering AD, DNS and Kerio connect mail server
- implementing and administering VOIP system based on Elastix
- implementing and administering the VMware Horizon view
- Designing, implementing the network between Banks and companies
- Designing, implementing The HP 3par Storages and Storage Replication
- Designing, implementing and administering VMWare vSphere 5.5 with 5+ hosts and 150+ VMs
- Upgrade entire virtualization infrastructure to vSphere 6
- Implementing and managing HP P2000 G3 storage
- Implementing Windows Server 2012 R2 Storage Space as a iSCSI SAN to vSphere Cluster
- Converting physical servers to VMs(97% virtualized environment)
- Implementing vSphere Operation Manager (vCOPS) to monitor vSphere Cluster performance and provide reports. Today, known as vRealize Operation Manager which upgraded successfully
- Implementing vSphere vShield Manager-End Point and Kaspersky to well protect the infrastructure against malwares
- Prepare an upgrade check list and road-path on Active Directory services
- Upgrading Active Directory environment to Windows Server 2012 R2 ADDS environment
- Implementing highly available DHCP, DNS, File Servers, …
- Preparing a backup/restore plan for VMs and implementing Veeam Backup & Replication serve.
- Implementing Veritas NetBackup Backup solution with a DAS storage to backup physical servers including file servers and security camera NVRs
- Designating and training IT staff to administer and manage specific services
- Designing and implementing the VMWare NSX.

## Senior Systems Engineer                                                    2009-Now

## IRIB (Islamic Republic of Iran Broadcasting)

## About IRIB

The unique TV and Radio Broadcaster in IRAN. 10 years ago, they decided to migrate from the physical servers to virtual servers and improved their network security. After 8 years, they decided to change the network and storage solutions. In addition, design new data center for Hosting. this data center design was based on FCOE solution.

## Responsibilities

- Head of  Data Center  and Hosting
- Evaluation of staff for employment  for hosting and data center section
- Designing and implementing  new firewall system and change the network design

- Designing and implementing virtualization  system
- Designing and implementing  Backup system
- Designing and implementing  Storage system
- Division of duties between Data Center Staff
- Resource assignment for VMs
- Technical appraisal of companies in tenders
- Designing and implementing  New Hosting of  Data Center based on FCOE
- Responsible for the Evaluation Committee for storage and virtualization in the Imam Ali Data Center
- Technical Director of IAS in CDN Tender
- Responsible for solving the technical problems of the hosting department and relevant data center
- Responsible for research

## Achievements

- Designing and implementing of service section of IRIB based on FCOE and NPV solution
- Configuring Nexus 5596 switches based on FCOE in NP mode and relevant FEX switches
- Configuring the Zoning in SAN switches and implementing the EMC 5400 storage.
- Installing and configuring of ESX Hosts
- Implementing of HP Blade servers
- Migrating Old data center to the New Data center.
- Implementing video conferencing between countries by LYNC software.
- Implementing cloud systems.
- Implementing firewall system of IRIB based on ASA firewall
- Implementing VMware ESXI on Blade servers for virtualization of systems for the optimal use of all resources and the transfer of old systems to it.
- Implementing VCenter for managing and clustering the VMs.
- Replacing the SUP and restarting the 6506 Switch
- Implementing VPN servers of IRIB
- Implementing the Blade Servers
- Consulting on IRIB data center design
- Upgrading the ESX and VCenter servers from version 4 to version5 Without interrupting
- Implementing backup for VMware systems.
- Implementing total backup of physical and virtual servers
- Implementing MSA 2000
- Supporting the EVA 4000
- Implementing VNX 5300 with installing licenses and configuring SAN switches
- Implementing SAN switches and Zoning
- Implementing Videoconference by LYNC 2013 software
- Implementing VNX 5400 in unified form
- Consulting on IRIB data center design
- Implementing Vcloud Director
- Upgrading the ESX hosts to version 6