

# Mehrdad Arshad Rad

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## Area of Expertise

Network Administration and Analysis  
Network Security  
System Administration (FreeBSD, Linux, MS)  
Management and Monitoring Software

Network Design and Implementation  
VOIP  
Telecommunication (TDM, Wireless, Satellite)  
Programming

## Routing and Switching

RIP V1/V2, IGRP, EIGRP, OSPF, BGP

OSPF: Design (Stub Area, Totally Stub Area, NSSA, And Backbone), Implementation (Broadcast network, non Broadcast network), Tuning.

EIGRP: Design, Implementation, Tuning

BGP: Version 4, iBGP, EBGP (Single Homing to Single provider, Dual Homing to multi service provider, Dual Homing to single service provider, Backdoor), Policies, Tuning, Controlling on Inbound/Outbound and ...

Good knowledge about Ethernet VLAN, QinQ, PVST+, MST (802.1s), RSTP (802.1w), LACP, PAgP, HSRP, VRRP, GLBP, SLB, CEF, Multicasting, Troubleshooting,

Controlling Access in campus network, Design and Implementation

Good knowledge about ATM network and Frame relay network

## Security

ISO17799, CISSP, MEHARI Methodology

One time password (RSA SecurID, Other tokens)

HoneyPot (Design and implementation on UNIX platform)

Firewall [Netscreen/Cisco/Fortinet] (NAT, VPN [IPSEC, ISAKMP, CA], VPDN, L2TP)

Intrusion detection and prevention :: Cisco IDS, Snort (unix software) and integration with firewall, IDP (Juniper/netscreen and other brands)

Auditing (Audit trail and tracking warehousing)

Cryptography:: DES, 3DES, AES, SHA, RSA, DH, HMAC, Public/Private keys, Digital Signature, CA server, SSL

Restriction and URL Filtering: Smartfilter, Surfcontrol, Websense  
Physical security: Sensors, biometrical keys  
AAA: Cisco secure ACS  
Penetration testing

## Professional Experience

### **Datak/GAT/RohamPars, Tehran/IRAN 2002 to 2005**

Network Engineer, ADSL Manager, Wireless NLOS with CPE Manager, Network Administrator, Security manager, R&D manager

- Routing (Static, Dynamic::OSPF, RIP, IGRP, EIGRP, ISIS, BGP) :: Cisco and Juniper
- Switching (CST, PVST, MST, 802.1s, 802.1w): Cisco
- MPLS, Multicasting: Cisco and Juniper
- Ericsson and ZHONE DSLAM
- Wireless (NLOS with CPE) (Tehran Wireless Project), 2.4 and 5.8 GHz bands
- Security (Netscreen 500, IDP-100, Fortinet, PIX),ISO17799, Snort
- Cache Servers (IMIMIC,Cisco cache engine,CacheFlow,Squid Transparent,Spoof and WCCP1,2 mode)
- Filtering (SmartFilter,Websense,SurfControl)
- Virtual Private Network :: VPN (L2TP, GRE, IPSEC (ISAKMP)
- Access: Cisco, Juniper ERX1410
- QoS (Quality of Service): Queuing implementation, Data Classification, Congestion avoidance
- OSS, ERP and CRM

### **Mavara Network, Tehran/IRAN 1997 to 2002**

Network Engineer Network Administrator, Network Engineer, Programmer

- VOIP (Voice Over IP)
- Cisco Routers and Gateway
- XDSL
- Programming Visual C++ (ISAPI, MFC, DLL, COM), ASP,PHP,JS
- Linux RedHat
- Cache server: Squid (programming)
- Satellite (DVB)

### **Software**

HP Open view, Castel Rock, JFFNMS, WhatsUp Gold, Solarwinds  
Public Ethernet management, ZMS Zhone management  
CITRIX MetaFrame Presentation Server 3.0  
Juniper SDX-300 management  
Websense, Smart filter, Surfcontrol, Surfwatch  
Nagios, Smokeping, MRTG, Cacti  
Mailsite, MDaemon, IMail, Sendmail, Postfix  
MS-SQL, MySQL  
Symantec Norton Corporation (Client/Server)  
IIS, Apache Tomcat, Backmoon FTP  
Snort, IPFW, IPChains, IMimic, Squid, Monowall

Cisco ACS, NTTacPlus, Tacacs+, CA  
Ethereal, Nessus Security scanner, NTop, TCPDump, Arcserv

## Hardware

Cisco Switch (1900, 2900, 3500, 3700)  
Cisco Router/Access (1700, 2500, 3660, 7200, 5300)  
Wireless (DragonWave, Redline, IP Wireless, Wave wireless, Senao, Alvarion)  
Juniper Access and Core router (ERX 1410, M40)  
Firewall (Netscreen-500, Cisco PIX 515E , Fortinet)  
Ericsson (EDA network:: DSLAM and Switches)  
Zhone (MALC and Zhone DSLAM)  
xDSL Modem : Paradyne, Patton, Lucent, Ericsson, Hundai  
HP (Switch and Server)  
CacheFlow, Cobalt, Cisco Cache engine  
Netscreen IDP-100  
ZULTYS VOIP MX 250

## Self study

Network Quality of Service (QoS)  
ISO 17799, Scurity+, Cryptography, Maximum Network Security  
Cisco Network Design, Network IP Routing  
MPLS, RSVP  
ADSL Architecture

## Training

- C Programming, Mojtama\_e Fanni Tehran, 1995
- Network security, Security, ISIRAN, 2002
- ATM (Asynchronous Transfer Mode) , Networking, FastLane UAE, 2004
- Cisco Network Security, Security, Fastlane UAE, 2004
- RIPE NCC, Management, 2004
- Juniper Networking, Networking, Isilicon UAE, 2004
- Wireless and Telecommunication, 2004
- xDSL Zhone training, U.A.E, 2004
- CCNP, 2004

## Education

B.S., Computer Hardware, Minor: 12 2001 Azad University of south Tehran, Tehran-IRAN, GPA:  
15.88, Major GPA: 20 - top student in computer department in Azad university of south Tehran at  
1996