ARUN KUMAR M

SYSTEM ADMINISTRATOR

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in https://linkedin.com/in/arun-kumarcloudadmin/

Experience

- **Aalim Muhammed SALEGH College of Engineering**   07/2009 - 10/2024
  System Administrator

  - Accomplished IT professional adept at installing, configuring, and troubleshooting Ubuntu, CentOS, Red Hat and Server environments, establishing robust lab setups for comprehensive testing.

  - Hands-on experience in setting up and managing bare metal servers, specifically HP ML350 10th Gen. Proficient in installing and configuring Ubuntu-based infrastructure, including LDAP, and Samba

  - Experienced in networking and system support, with a focus on Cloud Architecture, DevOps, and AWS, ensuring seamless integration and optimal performance.

  - Proficient in deploying and optimizing AI/ML solutions, utilizing a versatile programming skill set, including Python, Java, Gambas, Kotlin, and Go. Specialized in implementing security tools for enhanced system protection.

  - Launch an EC2 Instance: Log in to the AWS Management Console and navigate to the EC2 dashboard. Launch a new EC2 instance to serve as your VPN server. Choose an appropriate instance type and configure security groups to allow inbound VPN traffic.

  - OpenVPN:

    - SSH into your EC2 instance.

    - Install OpenVPN using your package manager (e.g., apt for Ubuntu).

    - Configure OpenVPN by editing the configuration files in /etc/openvpn.

    - Generate client certificates and keys using the Easy-RSA scripts.

    - Start the OpenVPN service and enable it to start on boot.

  - Configured IPSec on an EC2 instance using StrongSwan, including package installation, configuration, certificate generation, and service management.

  - Configured LDAP server and client for centralized user management and authentication.

  - Designed the directory structure and implemented access controls to enhance security and performance.

  - Allocate Elastic IP (Optional): For a static public IP address, allocate an Elastic IP and associate it with your EC2 instance to ensure consistent connectivity.

  - Configure Routing and Firewall Rules: Adjust routing and firewall rules to allow traffic between the VPN clients and other resources in your VPC (Virtual Private Cloud).

  - Client Configuration: Generate client configuration files or setup instructions for connecting to the VPN server. Distribute these to users who will be connecting to the VPN.

  - Testing and Troubleshooting: Test the VPN connection from client devices to ensure connectivity. Monitor logs for any errors and troubleshoot as necessary.

  - Security Best Practices: Implement additional security measures such as enabling multi-factor authentication, restricting access based on user roles, and regularly updating software packages to patch security vulnerabilities.

- **i-Net solution**   12/2006 - 05/2008
  Software Tester

  - Over 2 years of experience at I-net Solutions Pvt Ltd as a Software Tester, focusing on Manual Testing with expertise in Black Box Testing.

  - Proficient in automated testing tools such as Mercury Interactive Tools, actively involved in test case preparation and execution, and adept at defect tracking.

  - Extensive experience in Sanity Testing, Regression Testing, Functional Testing, System Testing, User Interface Testing, and Ad-hoc Testing. Strong grasp of SDLC and STLC methodologies, complemented by excellent communication skills and self-motivation.

Education

- **A.M.S. Polytechnic College**   04/1998 - 04/2001
  Diploma in Electrical & Electronics Engineering
  Percentage - 75%

- **T.N.O.U University**   08/2009 - 04/2010
  Bachelor of Computer Application
  Percentage - 80

- **T.N.O.U University**   08/2011 - 04/2013
  Master of Computer Application
  Percentage - 80

Skills

- Cloud Development (Advanced)

- DevOps (Experienced)

- Programming (Intermediate)

- Database

- Analytics

- Scaling

- Proficient in CentOS, Red Hat, and Ubuntu operating systems

- Extensive experience in setting up VPNs on cloud platforms

- Strong understanding of networking principles and protocols

- Ability to troubleshoot and resolve network issues effectively

- Excellent communication and collaboration skills

- Detail-oriented with a strong focus on delivering high-quality results

Tools & Software

- Linux

- AWS

- Terraform

- Ansible

- Jenkins

- Git

- Docker

- Kubernetes

- Prometheus
- Python
- MySQL

Techniques

- Setup and Configuration
- Monitoring
- App Optimization

Certifications

- IBM Certified Specialist - System P Administration
- Microsoft Azure Solutions Architect Expert - KodeKloud
- Advanced Bash Scripting - KodeKloud
- Ansible Advanced Course - KodeKloud
- Course in Python - Guvi