

INFORMATION TECHNOLOGY AND AWS ADMIN INTERN

Experience

Information Technology and AWS Admin Intern , 04/2019

Company Name – City , State

- Researched and implemented a secure cloud infrastructure for migrating the financial data into AWS with seamless integration for company's financial department.
- Achieved an overall increment of 30% in efficiency by migrating the company's infrastructure to AWS cloud.
- Reduced the company's infrastructure cost by 10 times.
- Implemented secure off-site backups through scheduled weekly SSH dumps to remote server.
- Configured and troubleshot switches, routers and firewalls using TCP/IP protocols.

Network Engineer Intern , 10/2015

Company Name

- Built LAN and WAN for small-scale business enterprises using HTTP, DHCP, DNS, OSPF, VLAN.

AWS Certified Solutions Architect- Associate , 10/2018

Company Name – City , State

- ID-J007G7C1MFE41RSQ) Aug 2019Cisco Certified Network Associate - CCNA 200-125 (ID-CSCO13264710.

04/2019

Company Name

- Set up a VPC network on Amazon and created public and private subnets, security groups, elastic IP and NAT gateway.
- Created an EC2 instance with Windows AMI to host an application on virtual machineWAN network deployment for a multinational organization using Cisco Packet Tracer Fall 2018.
- Configured routers, switches and implemented IP addressing, subnetting for a multi-location enterprise network using DHCP, OSPF, HSRP, RSTP for routing and redundancy.
- Solved security threats by providing network security using ACL and port securityLinux Based Integrated Ad-Hoc Network for IT infrastructure (Linux, Ubuntu) Fall 2018.
- Designed and implemented a prototype illustrating a client-server model for hosting WebServer (Apache2), master and slave.

Work History

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Accomplishments

- DNS(Bind9) server, DHCP Server and Backup server.
- Integrated the network to release dynamic IPv4 and IPv6 addresses to provide firewall protection, NFS, IPsec VPN Multi-client server chat application Spring 2018.
- Developed a real time multi-client server chat application in Python for a chat group by implementing socket programming.
- Secured the application by providing features like AES encryption, SHA 256, MD5 and symmetric key method Client server Socket Programming using TCP in Python Fall 2017.
- Developed a Python script for the client on Linux for performing a set of mathematical expressions sent by the server.
- Evaluated the result by receiving a flag sent by the server to the client on successful execution of the mathematical expressions, indicating a secure and successful TCP socket client-server connection establishment SDN based Load Balancer Fall 2017.
- Designed a software-defined network to provide server load distribution for a pool of HTTP servers by analyzing the incoming packets and routing accordingly.
- Optimized congestion by performing load balancing in round robin technique for the POX controller by using Openflow Switch Client -server application for public-key cryptography in Python Fall 2017.
- Developed a secured TCP connection for encryption and decryption of text file and matched the output at the receiver.
- Created public key cryptography to generate a set of public and private key (.pem file) by using RSA cryptosystem.

Education

Master of Science : Telecommunication and Networks , 12/2019

Northeastern University, Solapur University - City , State

Bachelor of Engineering : Electronics and Telecommunications , 06/2016

Summary

Actively seeking full time opportunities from December 2019

Highlights

- IP networking protocols :TCP/IP,UDP,HTTP/S,DHCP,DNS,STP,HSRP,ISIS,RIP,OSPF,MPLS,FTP,SMTP,IPSec,VLAN,VPN
- Network Tools :Wireshark,VMware,Cisco Packet Tracer,VirtualBox, Oracle,Windows Server,AWS,Active Directory
- Operating Systems :Windows,Linux,CentOs,Ubuntu,RHEL
- Programming languages: Python,Bash Scripting
- Coursework : Data Networking,Linux for Network Engineers,Internet Protocols & Architecture,Network Security,
- Computer Communication Networks,Multimedia Communication
- Active Directory, Routers
- Ad, Routing
- Apache2, SSH
- Bash, Scripting
- CCNA, SMTP
- Cisco Certified Network Associate, Switches
- Cisco, TCP/IP
- Client-server, VPN
- DHCP, WAN
- DNS, Windows Server
- Financial
- Firewalls
- FTP
- Gateway
- HTTP
- Internet Protocols
- IP
- ISIS
- LAN
- Linux
- Windows
- Multimedia
- Enterprise
- Network Security
- Network
- Networking
- Networks
- Operating Systems
- Oracle
- OSPF
- Programming

- Protocols
- Python
- RIP

Skills

- IP networking protocols
:TCP/IP,UDP,HTTP/S,DHCP,DNS,STP,HSRP,ISIS,RIP,OSPF,MPLS,FTP,SMTP,IPSec,VLAN,VPN
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- Active Directory, Ad, Apache2, Bash, CCNA, Cisco Certified Network Associate, Cisco, client-server, DHCP, DNS, financial, firewalls, FTP, gateway, HTTP, Internet Protocols, IP, ISIS, LAN, Linux, Windows, Multimedia, enterprise, Network Security, Network, Networking, Networks, Operating Systems, Oracle, OSPF, Programming, protocols, Python, RIP, routers, routing, SSH, Scripting, SMTP, switches, TCP/IP, VPN, WAN, Windows Server