

OMKAR DHOMANE

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EDUCATION

University of Maryland, College Park, MD, US

May 2018

Master of Science (MS), Telecommunications Engineering (GPA: 3.90/4.0)

Relevant Coursework:

Networks and Protocols, Advanced Topics in Networking: Network Design and Configuration Lab, Distributed Systems in a Virtual Environment (Linux), Special Topics in Cybersecurity: System Security, Introduction to Cloud Computing etc.

University of Mumbai, Mumbai, India

Jun 2016

Bachelor of Engineering (BE), Electronics and Telecommunications (GPA: 8.71/10)

Relevant Coursework:

Computer Communication and Networks, Internet and Voice Communications, Optical Communication and Networks, Data Encryption and Security, Telecommunications Network Management etc.

SKILLS

Programming and Web: Python, Bash/Shell scripting, HTML.

Tools: Wireshark, GNS3, PRTG, Docker, Ansible, Jenkins, JIRA, VMware, SolarWinds, Git, Splunk etc.

Applications and OS: Microsoft Office, Active Directory, Windows Server, Linux/UNIX (CentOS, Red Hat, Ubuntu, Kali Linux, SUSE Linux etc), MacOS, Cisco IOS, Junos OS.

Networking: TCP/IP, OSPF, BGP, EIGRP, HTTPS, FTP, DHCP, DNS, TACACS+, RADIUS, LDAP, VLANs, SNMP, SSH, RDP, VoIP

Security: IPsec, SSL/TLS, VPN, PKI, NMap, SELinux, IPtables

Cloud: AWS EC2, S3, EBS, ECS, VPC, IAM, ELB, Route 53, CloudFormation, CloudWatch, SSM, Lambda, Basics of Azure & GCP.

CERTIFICATIONS

- **AWS Certified Solutions Architect Associate** (Credential ID 8PHFCQF2BNF1Q1CH)
- **AWS Certified SysOps Administrator Associate** (Credential ID D6MK2D3CL244QMS1)
- **Cisco Certified Network Professional (CCNP) - Routing and Switching** (Credential ID CSC012844389)
- **Cisco Certified Network Associate (CCNA) - Routing and Switching** (Credential ID CSC012844389)
- **Cisco Certified Network Associate (CCNA) – Security** (Credential ID CSC012844389)

WORK EXPERIENCE

Systems Engineer, Verizon, Ashburn, VA, US

Jan 2021 – Present

- Contributing to the deployment of in-house developed applications by installing and debugging monolithic, microservices, containerized applications based on Docker and appropriate orchestration systems such as Kubernetes and Docker Swarm.
- Implementing and troubleshooting Network Security Devices such as Cisco ASA Firewalls, set up Site-to-Site VPN's, NAT, Intrusion Detection and Prevention Systems (IDS/IPS) to prevent Cyber-attacks for Verizon and for maintaining the established security standards.
- Collaborating with the DevOps teams to utilize automation tools like Ansible and Jenkins along with helping to develop Python and shell scripts and automation systems for expediting deployment and system administrative tasks.
- Creating detailed, comprehensive, and well-structured test plans, test cases, and test reports by incorporating and utilizing one or multiple components of Atlassian suite (JIRA, Confluence, etc.) to identify and resolve any bugs before the device firmware goes into production.
- Troubleshooting complex outages related to DHCP, DNS, TCP/IP, Load Balancing, IPsec and Routing to proactively mitigate potential network issues impacting the regular operations workflow.
- Configuring, implementing and troubleshooting a plethora of Operating Systems such as Linux/Unix (Red Hat Enterprise Linux, CentOS, Ubuntu etc.) and Microsoft Windows Server to ensure smooth functionality of the computing infrastructure.

Cloud Support Engineer, Amazon Web Services (AWS), Herndon, VA, US

Nov 2018 – Nov 2020

- As a part of the Linux, Networking and DevOps team, served as a key contributor in supporting AWS services that focus on Compute technologies including EC2, VPC, Lightsail etc. Storage services like S3, EBS, EFS, etc., Operations and monitoring services like Systems Manager, CloudWatch etc., containerized services like ECS and also services that enable customers to migrate their workloads to AWS.
- Provided extensive technical support and architectural guidance to a wide range of external customers as they build mission-critical applications on top of AWS.
- Supported AWS customers with System Administration tasks on Linux (Ubuntu, CentOS, RedHat, Amazon Linux etc.) and troubleshooting networking issues in TCP/IP, DNS, SSH, Routing, firewalls, LAN/WAN etc.
- Gained hands-on experience with configuration management tools (Ansible), infrastructure provisioning tools (CloudFormation), building and maintaining CI/CD pipelines using Jenkins and automating common tasks with Python and Bash/Shell scripting.
- Responsible for solving customer's cases through a variety of customer contact channels which include telephone, email, and web/live chat specializing in Linux, Networking and DevOps services of AWS.

Software Developer Intern, Juniors Read, Washington, DC, US

Sept 2018 – Nov 2018

- Responsibilities included extracting and processing raw data sets in HTML, including writing modular scripts, web scraping using Python libraries and calling associated REST APIs.
- Coordinated between teams for code collaboration, development and testing using Git version control and also worked on enhancing internal monitoring, logging and alerting strategies around availability, latency and overall system health.

Security Engineer I (Co-Op), Intertek, Rockville, MD, US

June 2018 – Aug 2018

- Implemented FIPS 140-2 and Common Criteria based security testing including Gap Analysis, Physical Testing, Functional Testing, Source Code Review, Algorithm Testing, Compliance Audits and drafting Technical Documents.
- Performed operational testing and troubleshooting of Routers, Switches, Servers & Firewalls along with documenting the results to test a wide range of network hardware, software and firmware products of diverse vendors like Cisco, Juniper, Oracle etc.

Network Engineer Co-Op, Motir Services, Inc, Washington, DC, US

Feb 2018 – Apr 2018

- Deployed, maintained and supported the IT, network and security infrastructure including servers, desktops, routers, switches and firewalls.
- Monitored the operational status of the systems using tools for alerts and notifications and responded accordingly through service tickets.
- Provided support via phone and email to diagnose and resolve network problems and provided end user assistance for IT issues.

Network Engineer Intern & Co-op, CGC Technologies Inc, Silver Spring, MD, US

May 2017 - Oct 2017

- Planned, configured and supported customer network environments for remote and on-site network management, server administration, directory services, security, VPN and virtualization.
- Administered real-time network and security monitoring using various enterprise tools, constructed network diagrams in Visio and performed penetration testing and vulnerability scans on customer networks running Cisco, Juniper and Palo Alto devices.
- Handled NOC escalation calls, tracked work orders and trouble tickets in SpiceWorks Helpdesk and directly interacted with clients to provide technical support and resolve LAN/WAN issues.

Network Administrator Intern, Intech Online Pvt. Ltd, Mumbai, India

June 2015 - Nov 2015

- Provided Tier-I NOC support and assisted network engineers with troubleshooting, maintenance, upgrading and auditing the ISP's data center infrastructure.
- Monitored the network activity using PRTG and escalated tickets in JIRA Service Desk to the appropriate engineering teams during network outages, operational issues and configuration changes.
- Worked with personnel and facilities management staff to install, remove, or relocate network equipment and authored technical documentation for operating instructions, procedures, and controls to ensure trouble-free operation of systems.

ACADEMIC PROJECTS

Network Security Monitor on Linux Server using Shell Scripts, University of Maryland

Jan 2018

- Implemented a network security monitor on Ubuntu Server which uses bash subroutines to analyze different security parameters like network and server health, availability of services, file integrity, unauthorized access and packet sniffing.
- Automated the tool to perform regular scans and created bash scripts to trigger alerts for detected security violations.

System Administration Labs for Linux Server running on VMware vSphere, University of Maryland

Dec 2017

- Gained extensive hands-on experience in topics like installation and configuration; the boot process; user and group administration; filesystem administration, including quotas, ACLs, RAID and LVM; task automation; client networking; SELinux; software management; log files; troubleshooting etc.
- Managing Jobs, Scheduling Processes, altering process priorities, Altering system load, Bash shell and options.
- Working with File Descriptors, Filters and Processing Streams, setting user/group Permissions and Ownership, Operations on Files/Directories, Filesystems, Disks, Command Prompts, Variables, Regular Expressions.

Penetration Testing of Layer 2 and Layer 3 networks using Kali Linux, University of Maryland

Dec 2017

- Deployed network topologies in GNS3 to implement different exploitation attacks and penetration testing using Kali Linux OS while reviewing countermeasures for the same.
- Tested various attacks like Man-in-the-Middle, Session Hijacking, Denial-of-Service (DoS), HSRP/STP/DNS spoofing, DHCP starvation and CDP flooding using tools like Yersinia, Ettercap, Xplico, Ferret, Hamster, Metasploit Framework etc.

Provisioning and Automation of global Cloud infrastructure on AWS, University of Maryland

Jan 2017

- Designed and deployed a scalable infrastructure on the Amazon Web Services platform using CloudFormation and Ansible that emulates the virtual network of a global mid-size organization using VPC and created subnets within this VPC for various departments.
- Hosted Linux and Windows EC2 instances and configured ACLs, route tables, default gateways, security groups, IAM policies and monitoring operations using CloudWatch. Experimented with EBS, S3, Load Balancers, Route 53, CloudFormation etc.

Intelligent Vehicular System using Wireless Sensor Networks, University of Mumbai

July 2015

- Implemented a smart vehicle security system which uses cellular network and ZigBee based wireless sensor network to notify real-time alerts to users in multiple emergency scenarios.
- Deployed a web-server based on Raspberry Pi and Apache to provide a GUI for displaying and toggling the alarms and control the system remotely.