

MASON GRIFFITH
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NETWORK OPERATIONS | FIREWALL | HYBRID INFRASTRUCTURE

Network-focused IT professional with 3.5+ years of experience supporting enterprise, MSP, and federal environments. Strong foundation in Layer 2 and Layer 3 networking, firewall segmentation, and Azure networking. Experienced in SLA-driven incident response, traffic flow analysis, and infrastructure troubleshooting. Builder of segmented multi-zone lab environments simulating enterprise firewall and hybrid cloud architectures.

CORE SKILLS

Networking: VLAN segmentation (802.1Q), inter-VLAN routing, static routing, TCP/IP, subnetting, ARP, DHCP, DNS, NAT, PAT, traffic flow analysis

Routing and Switching: Cisco IOS, router-on-a-stick, trunking, Layer 2 troubleshooting, Layer 3 troubleshooting, routing tables

Firewall and Security: pfSense, multi-zone architecture, DMZ design, firewall rule management, default-deny policies, port forwarding, VPN fundamentals, segmentation strategy

Cloud and Identity: Microsoft Azure VNet, subnet design, Network Security Groups (NSG), RBAC, Microsoft Entra ID (Azure AD), Microsoft 365

Systems Administration: Windows Server, Active Directory, group policy fundamentals, account lifecycle management

Tools and Platforms: Azure Portal, ServiceNow, ConnectWise

NETWORK SECURITY/ENGINEERING PROJECTS

Multi VLAN Routing and Segmentation Lab

- Designed segmented Layer 2 network with dedicated VLANs for user, server, and management traffic
- Configured 802.1Q trunking and inter-VLAN routing using router on a stick topology
- Implemented DHCP scopes per VLAN and validated gateway routing and subnet isolation
- Configured static routing to simulated WAN and analyzed routing table behavior
- Simulated outage scenarios to differentiate Layer 2 versus Layer 3 failures

pfSense Firewall NAT and DMZ Architecture Lab

- Designed three zone firewall architecture (LAN, DMZ, WAN) using pfSense
- Implemented default deny firewall posture with granular rule-based access control
- Configured outbound NAT (PAT) for internal users and port forwarding for public facing services
- Enforced strict segmentation preventing DMZ to LAN lateral movement
- Analyzed firewall logs to validate policy enforcement and dropped traffic events

Azure Hybrid Networking Lab

- Designed Azure VNet with multiple subnets and enforced segmentation using NSGs

- Deployed virtual machines and validated east west traffic filtering
- Implemented RBAC role separation following least privilege principles
- Simulated hybrid connectivity concepts between on premises and Azure environments

PROFESSIONAL EXPERIENCE

IT Support Technician

Federal Aviation Administration (FAA)

2024 to Present

- Troubleshoot Layer 3 connectivity issues including DNS resolution failures, DHCP lease conflicts, VPN interruptions, and routing related incidents
- Perform structured incident triage within SLA driven federal environment
- Support Microsoft 365, Azure AD, MFA, and Windows systems while identifying underlying network dependencies
- Maintain 90 to 95 percent first contact resolution while handling 100 plus tickets weekly

Systems Engineer

National Networks LLC

2023 to 2024

- Supported 40 plus client networks supporting 500 plus end users across multi-site environments
- Diagnosed DHCP scope exhaustion, DNS replication failures, VPN outages, and routing disruptions
- Assisted with firewall rule analysis, policy adjustments, and switch level troubleshooting
- Documented root causes to reduce recurring infrastructure incidents

IT Help Desk Technician

Stuller Inc.

2022 to 2023

- Supported 1000 plus enterprise users across manufacturing and e commerce operations
- Managed Active Directory account lifecycle and workstation deployments
- Maintained 95 percent plus customer satisfaction rating

CERTIFICATIONS/EDUCATION

Cisco Certified Network Associate (CCNA)

CompTIA Security+

CompTIA Network+

CompTIA A+

Microsoft AZ-104 (In Progress)

High School Diploma | Jennings High School