MASON GRIFFITH
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NETWORK SECURITY | ENTERPRISE ROUTING | FIREWALL ENGINEERING | HYBRID INFRASTRUCTURE

Network-focused IT professional with 3.5+ years of experience supporting enterprise, MSP, and federal environments. Strong background in Layer 2 and Layer 3 networking, firewall segmentation, dynamic routing, and hybrid cloud networking. Experienced in SLA-driven incident response, traffic flow analysis, and structured infrastructure troubleshooting. Designer of enterprise-style segmented lab environments incorporating Zero-Trust architecture, OSPF multi-area routing, HSRP redundancy, route summarization, and adversarial validation testing.

SKILLS

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

Routing and Switching: Cisco IOS, OSPF multi-area, route summarization, route filtering, HSRP, trunking, Layer 2 troubleshooting, Layer 3 troubleshooting

Firewall and Security: pfSense, multi-zone architecture, Zero-Trust segmentation, default-deny policies, DMZ design, port forwarding, egress filtering, IDS/IPS fundamentals

Cloud and Hybrid Networking: Microsoft Azure VNet, subnet design, Network Security Groups (NSG), RBAC, Microsoft Entra ID (Azure AD), hybrid connectivity concepts

Systems and Identity: Windows Server, Active Directory, group policy fundamentals, account lifecycle management, Microsoft 365

Monitoring and Tools: ServiceNow, ConnectWise, Azure Portal, packet analysis, log analysis

NETWORK SECURITY AND ENGINEERING PROJECTS

Enterprise Campus Routing and Redundancy Lab
- Designed hierarchical campus topology following core/distribution/access model
- Implemented multi-VLAN segmentation with inter-VLAN routing via Layer 3 switches
- Configured multi-area OSPF with Area 0 backbone and ABR design
- Implemented route summarization at distribution layer to reduce LSDB size and improve scalability
- Applied prefix filtering to control route advertisement boundaries
- Deployed HSRP for first-hop redundancy with priority and preemption configuration
- Validated gateway failover and measured convergence during simulated device failure
- Performed structured troubleshooting of OSPF adjacency failures and routing inconsistencies

Zero-Trust Enterprise Firewall and Segmentation Lab
- Engineered segmented enterprise architecture separating User, Server, DMZ, and Management zones
- Implemented explicit inter-VLAN deny policies enforcing east-west Zero-Trust isolation
- Deployed IIS server in DMZ and published HTTPS service via controlled NAT port forwarding

- Restricted server egress to HTTP/HTTPS only to reduce reverse shell and beaconing risk
- Configured Suricata IDS/IPS with ET Open rules and HOME_NET definition
- Simulated compromised endpoint using Kali Linux and executed reconnaissance scans
- Validated containment through logged firewall enforcement and blocked lateral movement attempts

Azure Hybrid Networking Lab
- Designed Azure VNet with multiple segmented subnets and enforced traffic control using NSGs
- Deployed virtual machines and validated east-west filtering and role separation
- Implemented RBAC aligned to least privilege principles
- Simulated hybrid connectivity concepts between on-premises and Azure environments

PROFESSIONAL EXPERIENCE
IT Support Technician
Federal Aviation Administration (FAA)
2024 – Present
- Troubleshoot Layer 3 connectivity issues including DNS failures, DHCP conflicts, VPN interruptions, and routing-related incidents
- Perform structured incident triage in SLA-driven federal environment
- Support Microsoft 365, Azure AD, MFA, and Windows systems while identifying underlying network dependencies
- Maintain 90–95% first-contact resolution while handling 100+ tickets weekly

Systems Engineer
National Networks LLC
2023 – 2024
- Supported 40+ client networks serving 500+ 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 – 2023
- Supported 1,000+ enterprise users across manufacturing and e-commerce operations
- Managed Active Directory account lifecycle and workstation deployments
- Maintained 95%+ 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