

# JASON M. VAN PATTEN

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## A FORWARD-THINKING DATA CENTER NETWORK PROFESSIONAL POISED TO SOLVE STRATEGIC PROBLEMS

### EXECUTIVE SUMMARY

A solutions-oriented network architect with a strong background in engineering and design, troubleshooting and maintenance, internal support, overhauls and redesigns, new server deployment, system testing, team training/relations, and data center oversight. Excels at building large-scale data center networks and solving challenging issues related to networking and systems. Possesses a proven performance record of building/maintaining network engineering and architecture on a massive scale, supporting fast-paced and high-performance organizations.

### KEY ACCOMPLISHMENTS

- Architected more robust and scalable methods to connect top-of-rack switches to core routers. Used Layer 3 routing and EVPN/VXLAN versus Layer 2 VLAN spanning.
- Oversaw network architecture for national and international data centers as well as architected simple, scalable design for data center networks.
- Provided network architecture oversight on company OpenStack initiative, tying process to new data center and rack build architectures.
- Introduced small Layer 2 switches for server connectivity, breaking long tradition of connecting servers directly to expensive router ports, lowering networking costs, scaling data centers more rapidly, and providing more robust network infrastructure for servers.
- Partnered with virtual machine (VM) team to architect network solution for new server deployment. Delivered requirements to network vendors, eliminated all but one, and then designed solutions allowing team to deploy up to 1,000 VMs and associated storage in single rack.
- Planned and executed massive maintenance projects while overseeing continuous customer traffic flow through networking gear, maintaining 99% uptime and avoiding maintenance-related outages.
- Strengthened interdepartmental relationships within operations organization, resulting in more effective communications and cooperation between network operations and other groups.

### TECHNICAL SKILLS

- Cisco ASR (9K), Nexus (7K, 9K)
- Arista L2/L3 Switches
- Juniper EX, M, MX, T Series
- Cumulus Linux
- Data Center Networking
- Cloud Networking
- TCP/IP (v4/v6)
- BGPv4
- OSPF
- DNS
- VXLAN with EVPN
- Linux, FreeBSD, other UNIX-based OSs
- Bourne Shell Scripting
- sed & awk

## **WORK HISTORY HIGHLIGHTS**

IBM, Herndon, Virginia

**Network Architect, IBM Cloud**, June 2019 – Present

[www.ibm.com/cloud](http://www.ibm.com/cloud)

- Provided network architecture guidance for IBMs cloud specifically but not limited their data centers.
- Introduced RFP procedure to the purchasing of new network gear as opposed to always sticking with incumbents.
- Encouraged more use of virtual networking devices (VMs, containers) to test things out in labs as much as possible to help save the cost of physical lab space, power, and gear.

ePlus Technology, inc, Herndon, Virginia

**Principal Architect**, Nov 2018 – Apr 2019

[www.eplus.com](http://www.eplus.com)

- Assisted clients with networking design, implementation, and turn-over.

QTS Datacenters, Sterling, Virginia

**Senior Network Engineer**, Nov 2017 – Aug 2018

[www.qtsdatacenters.com](http://www.qtsdatacenters.com)

- Performed engineering and troubleshooting on live, customer-facing data center routers, switches, and firewalls.
- Worked with customers to turn up new AWS Direct Connect circuits between their properties at QTS and AWS VPCs.
- Repaired a long-standing poorly-optimized network architecture for QTS' Government Cloud network infrastructure. Proposed a complete overhaul for the networking that would scale significantly easier and retain the existing server connectivity without being prompted to.

VERISIGN, INC., Reston, Virginia

**Senior Network Architect**, Sept 2012 – June 2017

[www.versign.com](http://www.versign.com)

- Designed and tested new, scalable architecture to replace enterprise-style network build moving company away from legacy L2-spanning throughout data centers.
- Developed and built IP-based management network for data center network devices, allowing for efficient automatic provisioning of newly installed or upgraded devices.
- Teamed with network operations organizations to build new architectures.
- Routinely provided Tier 3 support during builds and outages.

COMCAST, Reston, Virginia

**Principal Network Engineer**, Jan 2008 – Sept 2012

[www.comcast.net](http://www.comcast.net)

- Led continuing improvement initiative to completely overhaul network security and engineering practices in data centers. Provided simple, robust, and scalable network architecture for fast server deployments, allowing for easy comprehension of security rules and decreased reliance on physical firewall devices.
- Reduced networking cost by 75% for server deployment.
- Architected change to networks used as server backups, including use of routed backup LANs, allowing for improved network scaling and decreased number of servers and server interface uses.
- Collaborated with enterprise architecture organization to overhaul and simplify customer provisioning system, making platform more scalable and robust.
- Spearheaded idea of Anycast to DNS engineers, helping deploy initial examples within company infrastructure.

AOL, Dulles, Virginia

**Senior Network Engineer**, Nov 1996 – Oct 2007

[www.aol.com](http://www.aol.com)

- Held various roles such as Systems Administrator, Senior Network Engineer, Technical Manager, and Technical Advisor. Oversaw the explosive growth of AOL's massive northern Virginia data centers from a networking perspective with an eye on improving uptime and cost efficiencies.

### **ADDITIONAL EXPERIENCE**

Details of earlier roles and accomplishments provided upon request.

### **EDUCATION**

CLARKSON UNIVERSITY, Potsdam, New York

**B.S., Computer Science**, 1995