

MARK HERMSDORFER

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EXPERIENCE

F5

May 2014 - Present

Senior Consultant, Professional Services

Indianapolis, IN

- ▷ Responsible for architecture, design, and integration of F5 products into customer environments of all sizes. Extensive experience customizing F5 products and developing innovative solutions to solve client's business needs.
- ▷ Extensive experience deploying F5 products with thousands of different applications in countless architectures including OpenShift, Azure, AWS, various traditional data-centers environments as well as large scale competitive migrations from various other vendors to F5 products.
- ▷ Successful deployment of ASM/AdvWAF in a major financial client using AWS, including development of ASM policies that were successfully deployed in blocking mode for thousands of applications with minimal time & effort investment.
- ▷ Delivered several automation workshop projects including to multiple Fortune 500 clients with extensive legacy F5 BIG-IP deployments. Assisting customers in setting a direction and incremental goals to tackle their drive for automation.
- ▷ Multiple successful engagements with Silverline both in WAF & DDoS scrubbing roles for major financial clients using AWS including integration with on-premises AFM DDoS.
- ▷ Development & successful deployment of innovative authentication solutions, including a solution for 40k+ users that encrypts passwords prior to passing them into cloud environments. Solution was needed to secure against password hijacking in environments where federated authentication was not viable.
- ▷ Successful migration of entire customer environment to a declarative configuration model with AS3, git repository & workflow using vscode.
- ▷ Development & successful deployment of multi-layered DDoS protections including the use of Silverline scrubbing centers in addition to on-premise AFM network DOS, L7 DOS & bot protection in both proactive and reactive situations.
- ▷ Development of tooling for a number of different problems, including competitive migrations, repetitive configuration generation, automated testing of network connectivity & configuration.
- ▷ Experience with many aspects of F5's BIG-IP related product offerings including: LTM, GTM/DNS, ASM/AdvWAF, APM, AFM, CIS, AS3, DO, BIG-IQ CM, SSLO, iRules both TCL and node.js; extensive automation with iControl REST and TMSH using Python, additional experience with F5 Silverline offerings.
- ▷ Mentorship through collaboration with central consulting team to help develop skills and assist newer consultants ensuring successful engagements with customers.

Eli Lilly and Company

June 2009 - May 2014

Senior Engineer, Data Center Networking, Contractor through Apparatus

Indianapolis, IN

- ▷ Technical lead for team of Data Center Networking and application delivery specialists that handled day to day operations of 2000+ Applications deployed on F5 BIGIP.
- ▷ Deployed F5 APM to enable single sign-on for Apple iOS devices, transforming client x509 cert into a Kerberos token. Overcame challenges of using s4u2proxy in a multi-forest AD organization with limited trusts between forests including having service providers in multiple different forest from users.
- ▷ Deployed F5 APM to enable single sign-on for Apple iOS devices, transforming client x509 cert into a Kerberos token. Overcame challenges of using s4u2proxy in a multi-forest AD organization with limited trusts between forests.
- ▷ Migration of legacy DMZ environment from BIGIP v4.5 to v10.x. Developed automated scripts to convert configuration syntax and developed iRule to simulate v4.x SNAT behavior on v10.x.
- ▷ Migration of 2000+ applications from Cisco CSM to BIGIP v11.x. Developed scripts to convert configuration. Deployed OSPF RHI for migration of customer environments with minimal impact.
- ▷ Application delivery architect for DMZ modernization project. Designed & Deployed new DMZ environments globally.
- ▷ Key contributor and application delivery architect for DMZ modernization project. Designed & Deployed new DMZ environments globally that included Cisco ASA, F5 LTM & GTM.
- ▷ Application delivery architect for Multi-Site HA project. Leveraging VMware, EMC vPlex, Cisco OTV, & F5 LTM/GTM.
- ▷ Developed iRule for device authorization to AT&T and Akamai CDNs. Checks that the device has x509 certificate and redirects to CDN with blowfish or md5 token for authorization to CDN.

Interactions, Inc.

June 2008 - June 2009

*Infrastructure Specialist, Contractor through Apparatus**Indianapolis, IN*

- ▷ Technical lead for operations & application deployment team. Managed 300+ Linux & FreeBSD servers as well as Interaction's proprietary software on top of Java.
- ▷ Migration from dozens of DS1 based TWDM voice circuits to one DS3 using Dialogic IMG for SIP conversion. Provided much greater flexibility in call routing for call processing servers.
- ▷ Implemented monitoring system using OpenNMS for both System monitoring using SNMP and Application monitoring using JMX.

Eli Lilly and Company

June 2006 - February 2008

*Systems Analyst, Web Hosting, Contractor through Apparatus**Indianapolis, IN*

- ▷ Supported Websphere J2EE application servers, IBM HTTP Server, & F5 BIG-IP for all external marketing sites.
- ▷ Provided technical consultation to J2EE developers on how best to solve business problems using the websphere platform.

Apparatus, Inc

February 2006 - May 2014

*Senior Engineer**Indianapolis, IN*

- ▷ Deployed Asterisk based phone system including complex call trees and escalation paths for 100+ users.
- ▷ Budgeted, Designed, and Deployed network for new office building. Included: Role based network access control using 802.1x and 10Gbps over dark fiber CWDM to data center.
- ▷ Deployed a wide range of technology solutions to solve business problems in a number of different roles ranging from network & server administration to application development.

TECHNICAL STRENGTHS

Operating Systems	RHEL, Debian Linux, Windows Server
Network Infrastructure	F5 TMOS including: GTM, LTM & APM, Cisco IOS, Cisco NX-OS, Juniper ScreenOS, Juniper JunOS, Linux iptables & iproute2, OpenBSD PF
Network Protocols	IPv4, IPv6, TCP, UDP, HTTP, SIP, TLS, FTP, DNS, OSPF, BGP, SNMP, LDAP
Programming Languages	Python, Perl, Java, tcl, Node.js, C#
Cloud & Automation	AWS, Azure, OpenShift, Kubernetes, Chef, Ansible, Terraform
Database Platforms	PostgreSQL, MySQL, Microsoft SQL

EDUCATION

Indiana University, Bloomington*May 2006*

Bachelors of Science in Informatics

Cognate Area: Business with Minors in Computer Science & Telecommunications

Member & President of IU Amateur Radio Club K9IU