

Mathias Ewald

Consultant

Heerwagenstrasse 29
90489 Nuremberg, Germany
☎ (0049) 151 17317864
✉ mathias.ewald@vxpertise.net
🌐 vxpertise.net
Blog: vxpertise.net



Personal Information

Born **05/21/1986.**
Nationality **German.**
Availability **international.**
International Training Experience **Germany, Austria, Switzerland, Bulgaria, Slovenia, Israel, India, China, Australia.**

Languages

German **native.**
first language
English **fluent.**
written and spoken

Education

1996–2006 **A Level, Gymnasium Pegnitz.**
main subjects: Mathematics, English, Economics, Biology
2006–2010 **Bachelor of Business Studies, Friedrich-Alexander Universitaet Erlangen-Nuernberg.**
Specialized on Information Systems
2010–Present **Master of Computer Science, FernUniversitaet in Hagen.**
Specialized on Operating System Architecture and Virtualization

Bachelor Thesis

Title *Design and Implementation of a Platform for Evaluation Experiments*
Supervisors Prof. Kathrin Moeslein & Dr. Joerg Haller

Description This thesis explored the potential of web-based evaluation to foster innovation and deduced criteria for such platforms. As part of the thesis, a prototype of such a platform was created using Enterprise Java technologies.

Certification

VCP-DV 4	VMware Certified Professional - Datacenter Virtualization	
VCP-DV 5	VMware Certified Professional - Datacenter Virtualization	
VCAP-DCA 4	VMware Certified Advanced Professional - Datacenter Administration	
VCAP-DCA 5	VMware Certified Advanced Professional - Datacenter Administration	
VCP-Cloud	VMware Certified Professional - Cloud	
VCI	VMware Certified Instructor	
VAI	VMware Academic Instructor	
CCNA	Cisco Certified Network Associate	<i>expired Sept. 2013</i>
CCAI	Cisco Certified Academic Instructor	
CAI	Citrix Academic Instructor	
In Preparation	VCAP-DCD, VCDX	

Skills

- Focus **IT Infrastructure.**
- Server Virtualization
 - Desktop Virtualization
 - Datacenter Virtualization Consolidation
 - Disaster Recovery
 - IaaS Cloud Computing (Private, Public and Hybrid Clouds)
 - Infrastructure Design and Implementation
 - Monitoring of Infrastructure Components
 - Performance Monitoring and Optimization
 - Trainings and Workshops

- Branches **Experience in different sectors.**
 - Education and Science
 - Retail
 - Manufacturing
 - Military
 - Health Care
 - Economy
 - Provider and Telecommunications
 - Consulting
 - IT Services

- Hardware **Experience with server, networking and storage hardware.**
 - **Server** (HP ProLiant DL100 series, HP ProLiant DL300 series, Fujitsu RX100 series, Fujitsu RX300 series, Fujitsu RX800 series, DELL PowerEdge, Supermicro, Cisco UCS)
 - **Switches** (Cisco Catalyst, HP Procurve, Linksys, Cisco Nexus 5000)
 - **Firewalls** (Cisco ASA)
 - **Storage (SAN, NAS)** (HDS, NetAPP FAS, EMC Clariion, EMC VNX, HP EVA, HP MSA, Brocade, Synology, Qnap)

- Operating Systems **Deep knowledge of operating systems.**
 - **Linux** (Debian, Ubuntu, CentOS, RedHat, RHEL, SuSE, OpenSUSE)
 - **Windows** (Windows XP, Windows Vista, Windows 7)
 - **Windows Server** (Windows Server 2003, Windows Server 2008)
 - **UNIX** (Solaris, FreeBSD)
 - **Cisco IOS, NX-OS**
 - **Data OnTap**

- Virtualization **Good knowledge of virtualization technologies.**
 - **VMware:** Virtual Infrastructure 3, vSphere, ESX, ESXi, vCenter Server, vCenter Server Heartbeat, vCenter Operations Manager, View, ThinApp, Workstation, vShield Endpoint, vShield Manager, vShield Edge, vCloud Director, Lab Manager, Site Recovery Manager, vSphere Replication, Data Recovery, Data Protection, vMotion, High Availability (HA), Distributed Resource Scheduler (DRS), Storage DRS, VSAN, Distributed Switch, vCenter Orchestrator, vCloud Automation Center
 - **Cisco:** Nexus 1000V
 - **Linux:** KVM, RHEV-3, libvirt, XenSource
 - **OpenStack:** Nova, Glance, Keystone, Neutron, Cinder
 - **Citrix** XenServer, XenApp, XenDesktop
 - **Storage Virtualization:** CEPH, GlusterFS, DRBD, QUADstor, IET

- Programming and Markup Languages **Software development and scripting experience.**
 - Java, Perl, Python, BASH, C, HTML, CSS, LaTeX

- Networking and Communication **Deep knowledge of protocols and technologies.**
 LAN, WAN, WLAN, Internet, Intranet, VLAN, 802.1q, VXLAN, VoIP, SIP, QoS, CoS, LACP, EtherChannel, OSPF, RIP, DHCP, DNS, VPN, FTP, IPv4, IPv6, TCP, UDP, TCP/IP, Ethernet, SNMP, CDP, LLDP, IMAP, POP, RDP, PCoIP, DSL, PPPoE, HTTP, SSH, Telnet, SSL, SSL VPN, iSCSI, NFS, FibreChannel, etc
- Other Software .
- Linux/UNIX (Apache2, Puppet, OpenVPN, Nagios, Icinga, Asterisk, pacemaker, heartbeat, OpenAIS)
 - VMware Third-Party Products (Veeam Backup and Replication)
 - Office Software (Microsoft Office, OpenOffice, LibreOffice, LaTeX)
 - Microsoft Visio

Work Experience

- 11/2013–Today **Automobile Manufacturer, Germany, Cloud Architect.**
- Cloud Architect / VMware Architect in project team of EMC, VMware and VCE
 - Conception and design of high availability and security designs
 - Coordination of activities with responsible departments
 - technical implementation
 - Operation support at customer site
 - Hardware: VCE (VMware Cisco EMC) VBlock (Cisco UCS, EMC VNX, EMC VNXe, Cisco MDS, Cisco Nexus 5000)
 - Software: vCloud Director, vSphere (vCenter, ESXi, SSO, Cisco Nexus 1000V), vCenter Operations (vCOPs), UIM/P, UCS Manager, NX OS. . .)
- 09/2013–Today **Federal Agency, Virtualization Engineer.**
- multi-site datacenter
 - Virtualization and network design and implementation
 - High availability clustering and failover testing
 - P-A-P firewalls
 - PKI and LDAP
 - Software: KVM (Kernel-Based Virtual Machine), DRBD (Distributed Replicated Block Device), CLVM (Cluster Logical Volume Manager), libvirt, cman, corosync, rgmanager, modclusterd, ricci, OpenLDAP
 - Hardware: Genugate, Pfsense, Enterasys, IBM System x, 10Gbit Ethernet, Fibre
 - Documentation with DokuWiki, Racktables
- 08/2013 **Storage and Server Vendor, Sydney, Instructor.**
- Education of HDS staff with VMware vSphere and other products
 - vSwitch, Distributed vSwitch, Storage, vMotion, HA, DRS, VAAI, VASA, Host Profiles, Site Recovery Manager. . .
- 07/2013 **Software Developer, Frankfurt, Consultant, Engineer.**
- Cloud infrastructure update from vCloud Director 5.0 to 5.1.
 - Products: vCloud Director, vShield Manager, vShield Edge

- 07/2013-08/2013 **Manufacturer and IT Services, Frankfurt, Virtualization Architect.**
- Support in creation of a PoC for an international bank.
 - Large scale, multi-site "desktop on demand" environment with XenDesktop and VMware vSphere as the hypervisor platform.
 - Designed for a total of 30000 virtual desktops in each of 10 locations world-wide with replication to the remote site for disaster recovery
 - Automation of deployment process using PowerCLI
 - vSphere, ESXi 5.1, vCenter, vSwitch, Distributed vSwitch, Site Recovery Manager, vCenter Server Heartbeat, vSphere Replication, PowerCLI, IBM FlexSystem x240, Citrix XenDesktop, . . .
- 05/2013 **Storage and Server Vendor, Hongkong, Instructor.**
- Education of HDS staff with VMware vSphere and other products
 - vSwitch, Distributed vSwitch, Storage, vMotion, HA, DRS, VAAI, VASA, Host Profiles, Site Recovery Manager. . .
- 05/2013 **Federal Agency, Instructor.**
- Training of staff with KVM virtualization
 - Linux basics, networking, iSCSI, NFS, NBD, LVM, CLVM, MacVtap, Vhost_net
 - high availability clustering with corosync / OpenAIS
- 04/2013 **Hosting Provider, Hannover, Senior Consultant and Engineer.**
- Installation and configuration of vSphere 5.1 ESXi hosts with AutoDeploy (diskless)
 - Design of multi datacenter environment (Stretched Cluster, vSphere Metro Storage Cluster) and Consulting
 - Consulting on vCloud Director 5.1 with disaster recovery
 - Products: vSphere 5.1, ESXi 5.1, vCenter 5.1, AutoDeploy, PowerCLI, ImageBuilder, Host Profiles, Site Recovery Manager, vCloud Director, Replicated Storage with EMC VNX, Cisco Nexus 5000
- 03/2013 **Storage and Server Vendor, Frankfurt, Technical Engineer.**
- Installation of vSphere 5.1 on Hitachi server hardware
 - Configuration of vCloud Director 5.1
 - Preparation of vApps for future use
 - Products: vSphere 5.1, vCloud Director 5.1, VXLAN, Hitachi Storage, Cisco Switches, Site Recovery Manager
- 01/2013 **Software Developer, Frankfurt, Consultant, Engineer.**
- Migration from VMware Lab Manager to VMware vCloud Director 5.1
 - Conception and implementation of the new vCloud Director environment
 - Migration of VMs from Lab Manager to vCloud Director
 - Training of staff in dealing with the new environment
 - Products: vSphere 5.1, Cluster, HA, DRS, EMC Storage, RHEL6, MS SQL 2008, vCloud Director 5.1, VXLAN

- 08/2012–01/2013 **Provider & Telecommunications, Hannover, Senior Consultant and Engineer.**
- Analysis of the existing vSphere 5 infrastructure with regards to vulnerabilities.
 - Revision of physical installation and configuration of ESXi servers, vCenter Server, networking hardware, storage arrays and virtual machines.
 - Creation of a minimal downtime migration plan to adjust the environment to effective best practices.
 - Performance and resource optimization
 - Documentation
 - Employee training and instruction on working the environment.
 - Products: vSphere 5, Cluster, Fujitsu Hardware, EMC Storage, Cisco Switches, . . .
- 06/2012 **Retail, Neckarsulm, Senior Systems Engineer.**
- Support in design and implementation of VMware products
 - Enhancement of existing vSphere 5 infrastructure with vCenter Server Heartbeat
 - Configuration of vCenter Server for 24/7 operation
 - Migration of existing virtual vCenter Server to physical servers
 - Failover testing
- 06/2011–12/2012 **Health Care, Senior Systems Engineer.**
- Design and implementation of KVM virtualization infrastructure and storage
 - Installation and configuration of networking equipment.
 - Peer-to-Site and Peer-to-Peer VPN solutions
 - Backup & Restore
 - Rollout and monitoring
 - Documentation
 - Troubleshooting and support
- 01/2010–Present **Various Customers, Trainer.**
- Customer trainings (VMware Authorized Trainings) for
 - Hewlett-Packard
 - FastLane
 - Magirus
 - New Horizons
 - Campus GmbH
 - Arrow ECS
 - . . .
 - Mainly vSphere and addon products and technologies
- 01/2010–Present **Storage Vendor, Frankfurt, Trainer.**
- International operation
 - International customer trainings (VMware Authorized Trainings) in Israel and India
 - Training of EMC and VMware employees on VMware products
 - products: Virtual Infrastructure 3, vSphere, vCloud Director, View, . . .

- 06/2010–Present **Virtualization Vendor, EMEA, Trainer.**
- Numerous customer trainings (VMware Authorized Trainings)
 - Training of VMware Partner companies on vSphere and View products
 - Problem resolution and migration training
 - Products: Virtual Infrastructure 3, vSphere, vCloud Director, View,...
- 06/2010–Present **Health Care, Consultant & Support Engineer.**
- Windows and Linux Server installation
 - Problem resolution
 - Emergency support
 - Monitoring
 - Virtualization with VMware
- 01/2005–05/2010 **Education and Science, Nuremberg, Senior Systems Engineer.**
- Design and implementation of VMware vSphere 4
 - High Availability (HA) cluster
 - Load Balancing with Distributed Resource Scheduler (DRS)
 - Backup via VMware Data Recovery
 - MSA Storage
 - Optimization and testing
 - Documentation
- 01/2009–01/2010 **Various Customers/Sectors, Consultant & Systems Engineer.**
- Design and implementation of various server infrastructures
 - VMware Virtualization
 - Windows Server operation and support
 - Linux server operation, support and monitoring
 - Load Balancing
 - Storage
 - Optimization and troubleshooting
 - Documentation
- 01/2006–06/2009 **IT Services, Nuremberg, Consultant & Trainer.**
- Numerous 3 to 5 day Linux trainings for customers of netlogix GmbH during studies of Information Systems.
 - Preparation of students for various Linux certifications.
 - Preparation of students for introduction and administration of Linux in their respective companies
 - Topics: Linux, server systems, virtualization, monitoring tools
- 2006–Present **freelancer.**