Dipl.-Ing. (FH)
Jörg Steindlberger
Auf der Hegge 3
49090 Osnabrück
Telefon: +49 176 4453 0099
Telefax: +49 541 67345341
E-Mail: jp@steindlberger.com

Profile

Name:	Jörg Peter Steindlberger
Languages:	German (native), English (fluent)
Fields of activity:	Information security, Information technology
Main focus:	Consulting, planning, auditing, concepts and maintenance
Industries, sectors:	Logistics, insurance, financial, aviation, leisure and government

Curriculum Vitae

2010 – now	Security and IT consulting, freelance

Information security management
IT security, auditing, consulting
Linux and UNIX systems engineering
(For details see chapter "project experience")

2000 – 2010	Security and IT consulting, usd.de AG, Germany

Linux and UNIX systems engineering
Information security management
IT security consulting
Auditing PCI DSS compliance
(For details see chapter "project experience")

1995 – 2000	IT services and consulting, freelance

Windows and Linux setups
Small office networks, WAN connectivity

1994 – 1999	University of Applied Sciences in Frankfurt on the Main, Germany

Course of studies: Process engineering
Focus: Energy management and nuclear power engineering
Degree dissertation: Water treatment for energy plants
Degree: Graduate engineer

1980 – 1993	School

Secondary school: Kaiserin-Friedrich-Schule Bad Homburg, Germany
Graduation: University-entrance diploma

Main Focuses

Focus in information security:

- Information security management according to ISO 27001
- Encryption and PKI management according to ITU-T X.509
- Projects targeting compliance with PCI DSS

Focus in information technology:

- Planning and implementation of Linux and UNIX based systems
- Maintenance and improvement of productive environments
- Installation of integrated monitoring and management systems
- Elevating security levels of servers and applications
- Network management and network security
- Operating systems: AIX, HP-UX, RHEL, SLES, Debian
- Platforms: Bare Metal, VMware, Xen Project, Docker, Kubernetes
- Operational area: Databases, HA clusters, DevOps, automation

Project Experience

04/2022 – 12/2022   **System buildup and automated configuration**
Sector: Telemetry

- Provisioning of CentOS by using Puppet and Linux Kernel Virtual Machine (KVM)
- Automation of buildup of VMware Private Cloud using REST API in BASH scripting and MS Power Shell
- Configuration of VMware Cloud Foundation (VCF) and provisioning of virtual machines using HashiCorp Terraform

03/2021 – 03/2022   **Application support and automation**
Sector: Financial services

- Deployment of applications on Red Hat Enterprise Linux (RHEL) by using Nolio and Ansible
- Configuration of JBOSS and Tomcat parameters by Puppet
- Migration of applications to private Cloud, using Terraform for providing of resources, using Ansible for configuring applications

09/2020 – 01/2021   **Implementation of security requirements**
Sector: Financial services

- Implementation of automatisms for the usage of X.509 certificates on management boards
- Implementation of anti-virus software for Linux provided by Sophos
- Hardening of Apache HTTPD and Tomcat web application servers based on benchmarks by NIST, CIS and others

08/2019 – 08/2020   **Process automation for DevOps and legacy Linux environments**
Sector: Financial services

- Implementation and maintenance of a Forman server to provide staging of CentOS and Red Hat Enterprise Linux versions 7 and 8 as well as management by Ansible
- Providing tools and scripts for customers' self-service based on Ansible
- Access management based on Kerberos and Active Directory authentication for SSH, Samba, and custom applications

10/2018 – 05/2019   **Migration of infrastructure for mobile and remote access**
Sector: Government services

- Implementation of VPN tunnel terminators of different manufacturers
- Configuration and maintenance of infrastructure services like LDAP, DHCP and Radius
- Migration of data to PostgreSQL databases

10/2017 – 09/2018   **Server staging and infrastructure maintenance in DevOps environment**
Sector: Insurance

- Staging of virtual servers based on VMware with CentOS and Red Hat Enterprise Linux in versions 6 and 7
- Automation with Puppet, Satellite, Foreman and Kickstart
- Scripting of common and frequent duties with BASH, Perl, Ruby and Python

09/2016 – 06/2017   **Design and implementation of server hardening processes**
Sector: Financial services

- Design and development of server hardening concept for the operating system level (Unix, Linux)
- Research into security requirements as well as requests for compliance to regulations
- Implementation of server hardening of IBM AIX, Red Hat RHEL and SuSE SLES
- Automated reporting of applied hardening status to stakeholders and executives
- Implementation and maintenance of central access and encryption management based on X.509

03/2016 – 08/2016   **Establishing a platform for monitoring and incident management**
Sector: Leisure services

- Implementation and configuration of Nagios server platform, migration of monitoring modules
- Providing web based platforms with secure transport and privileged access control

06/2012 – 03/2015   **Relocations and migrations of booking engines and gateways**
Sector: Leisure services

- Administration and modernization of Red Hat Systems from version RHEL4 with LVS LDirector, load balancers, Heartbeat clusters, Apache HTTPD and Tomcat
- Administration of AIX and HACMP clusters
- Administration of Informix, Oracle RAC, Checkpoint Firewall, VMware ESXi, Veritas Netbackup
- Maintaining compliance with PCI DSS and general data protection requirements

04/2012 – 05/2012   **Automation of a provisioning process for virtual machines running on Linux KVM**
Sector: Online gaming

- Building of a modular shell script for a fully automated provisioning of virtual machines
- Configuration and usage of the Red Hat Kickstart technology based on Cobbler server
- Managing the KVM virtualization environment by using the LibVirt framework on CentOS

01/2012 – 03/2012   **Development of guidelines and policies for information security**
Sector: Multi-class IT services

- Conception of an information security management system (ISMS)
- Development of information security policies for customer's usage
- Analysis of requirements and identification of efficient implementations in compliance with ISO/IEC 27001

11/2011 – 12/2011   **Building a security concept for running public accessible web server portals**
Sector: Insurance

- Identifying applicable frameworks; negotiated the Use of German "BSI Grundschutz"
- Choosing measures to be enumerated and Implemented

08/2011 – 11/2011   **Outsourcing and migration of Linux based backend servers**
Sector: Touristic

- Design of a production environment based on VMware and Blade Servers Including SAN, LAN and WAN connectivity
- Evaluating contract-compliant backup and disaster recovery strategies
- Design of secure OS baseline installations and optional additional modules
- Identification of sufficient security measures and implementation of access control, system hardening and high availability technologies
- Migration of physical servers into virtual environment (P2V)
- Migration of virtual instances into new VMware environment (V2V)
- Installation and configuration of databases (Oracle, MySQL) and application servers

03/2011 – 10/2011   **Relocation of a disaster recovery (DR) data center**
Sector: Aviation

- Engineering of WAN and VPN concept
- Remote installation and configuration of Red Hat and SuSE Linux operating systems
- Design and implementation of data replication concepts
- Business continuity management (BCM) targeting recovery time and recovery point objectives

09/2010 – 12/2010   **Building a PCI compliant transaction platform**
Sector: Electronic payment

- Identifying applicable requirements of payment card industry's data security standard (PCI DSS)
- Installation and configuration of a file integrity monitoring (FIM) based on Samhain
- Implementation of an event protocol server based on Yule
- Identifying interface requirements for linking to company's security information and event management (SIEM)

07/2010 – 05/2011   **Migration of storage data for consolidating SAN storage boxes**
Sector: Multi-class IT services

- Identifying different opportunities for individual migration of data depending on volume sizes and availability requirements as well as optimizing for Red Hat Enterprise Linux (RHEL versions 4, 5 and 6) and SuSE Linux Enterprise Server (SLES versions 8, 9 and 10) by using technologies like LVM, LVM2, Veritas Storage Suite, meta device mirroring and multi-pathing
- Developing a concept for online migration of high available Linux systems running Veritas cluster, Red Hat cluster, Heartbeat and HP MC Service Guard
- Planning, scheduling, performing and operating single migrations

10/2009 – 06/2010   **Outsourcing and re-build of control and booking systems**
Sector: Aviation, logistics

- Identification of customer's requirements and pre-sales support for physical and virtual
  OS instances running SuSE Linux Enterprise Server and Red Hat Enterprise Linux
- Analysis, evaluation and implementation of customer's design requirements and constraints
- Design and implementation of security concepts as well as usage based accounting
- Staging of Linux based virtual machines hosted by VMware

08/2008 – 09/2009   **Information security management**
Sector: Financial services, electronic payment

- Analysis of business cases and sensitivity of IT applications
- Identifying applicable regulatory requirements and legal restraint
- Generating communication matrixes with information gathered during interviews with systems
  managers; defining protection requirements
- Risk assessment, evaluation and analysis based on German BSI standard
- Recommendation of risk mitigating measures

01/2008 – 07/2008   **Development of a concept for virtualizing an HP server environment**
Sector: Multi-class IT services

- Development of a virtualization concept in regard to security, availability, performance and usability
- Estimation of economic efficiency by considering purchase costs, total cost of ownership and
  deviation of maintenance and license costs
- Planning of a proof of concept with evaluation of different isolation and virtualization methods like
  PRM, vPars, nPars, Integrity VM

10/2007 – 06/2010   **Performing data security assessments for PCI**
Sector: Electronic payment

- Leading and performing assessments in the role of a qualified security assessor (QSA) according
  to payment card industry's data security standard (PCI DSS)
- Conceptual and technical information security and implementation consulting
- Gap analysis for identifying incompliances
- Development of information security policies

09/2007 – 02/2008   **Outsourcing and rebuild of an SAP environment**
Sector: Financial services

- Developing concepts for building a server environment running HP-UX on Integrity Superdome
- Evaluating methods and performing migration of high-critical data with focus on integrity
- Set-up and operating of metro clusters

09/2007 – 10/2012   **Building and maintaining Xen server environment**
Sector: Multi-class IT services

- Design, planning, set-up, automation, maintenance of virtual OS instances
- Configuration of resilience on Xen and application level
- Running para-virtualized and hardware emulating virtual machines
- Maintaining infrastructure services like IPv4 and IPv6 networks, VPN, DNS, NTP
- Resilient storage and e-mail services, data and transport encryption
- Monitoring of availability, integrity and attacks

10/2005 – 08/2007   **Creating and improving security measures of an SAP environment**
Sector: Financial services

- Developing concepts for hardening server environment and applications
- Evaluating the technical applicability for UNIX-based server systems
- Implementing and automating the hardening processes

05/2005 – 09/2005   **Evaluations of platform independent encryption methods**
Sector: Aviation

- Identification of standard tools and application interfaces for the operating platforms like
  IBM Mainframes, Unix (AIX, Solaris, HP-UX), Linux and Windows
- Evaluating the implementation of common encryption applications basing on X.509 certificates

09/2003 – 04/2005   **Outsourcing of UNIX-based SAP, Oracle, and application servers**
Sector: Financial services

- Set-up of a new data center for operating metro cluster systems
- Installing high available systems based on HP-UX and MC ServiceGuard
- Managing of storage replication based on SRDF (EMC²) and TrueCopy (Hitachi)

02/2000 – 12/2003   **UNIX systems engineering and maintenance**
Sector: Aviation

- Set-Up and operating of servers based on HP-UX and MC ServiceGuard
- Technical pre-sales, project and implantation support

05/1995 – 02/2000   **Supports for home and small offices**
Sector: Crafts and Trades

- Developing catalogues for hard and software recommendations
- Services for data processing environments
- On-site installations of IT systems