

Dipl.-Ing. (FH)  
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## 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

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# 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

## **09/2020 – 01/2021 Implementation of security requirements**

Sector: Financial services

- Implementation of automatism 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 Foreman 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 (EMC<sup>2</sup>) 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