ENNAB IT Consulting
Projects

Core competencies	DevOps, DevSecOps, PKI Consultinging, Application Manager, Security Analyse, System Administrat, System Architectyour, Automation.

Relevant projects

- Deployment and administration of a complex Java application. Interface connection, logging, monitoring, certificates and secret management. (Openshift, Docker, Argo CD, CI/CD Pipeline, Git, Grafana, PKI, X.509...).
- Automation of processes and jobs (bash, Ansible, Semaphore, Kerberos)
- Self-developed solution for certificate monitoring (Grafana, CSV files, bash scripts, Ansible, SSL, TLS, X.509...)
- Identity & Access Management: Concept, installation and configuration of Vault by Hashicorp (Ldap connection, secret management, central SSH logging, EJBCA, PKI...)
- Concept, implementation and extension of a PKI platform (Nexus CM, Prime, OCSP, Microsoft KGS, Auto Enrollment, Smartcard...)
- Application Management in mixed environment: (Windows, Linux, Kerberos, Websphere, SPNEGO, SSO, IBM Filenet P8)
- On-premise and cloud migration of applications.
- Security Implementation and System Hardening

Project history

Period	(2021 -2023)
Industry	E-Health
Company	**BITMARCK®**
	DevOps & **DevSecOps**
Activity	- Deployment and release management of a complex Java application under Openshift. - Migration of applications to Openshift. - Interface connection, logging, monitoring and secret management. - Automationof processes and jobs in mixed environments

- ◆ PKI operation andself-developed solution for certificate monitoring
- ◆ Authentication Protocol Configuration and Troubleshooting

Technologies	◆ Openshift, Kubernetes, RHEL, Windows Server, Argo CD, CI/CD Pipeline, Harbor Registry, Intellij IDEA, Bitanami Secret, NodePort, Ingress, Egress, Firstspirit, PKI, Grafana, Ansible, Semaphore, SIEM, Logrhythm, Filebeats, Logstash, Kerberos, 3scale, API , Storage, Pods, Nodes, Liveness, Readiness, Spring Boot, Elastiksearch, 2FA, MFA, Oauth2, OpenID, SSL, TLS, PKI.

Period	2021-2022
Industry	Engineering works
Company	HERMLE besser fräsen

PKI Architect

Activity	◆ Analysis of the current state of a PKI solution. ◆ PKI system architecture and design according to customer requirements. ◆ Product comparison, cost estimation and consulting. ◆ Implementation POC (Proof of Concept)
Technologies	◆ Linux, Win Server, Active Directory, Nexus, EJBCA, Microsoft CA, OpenXPKI, Microsoft Azure, CA Hiearchie, OU Structures, CRLs, OCSP, Root-CA, Sub-CA, HSM, ACME, Auto-Enrollment, CSR, Signing.

Period	2020-2021
Industry	Logistics
Company	DB

DevSecOps

Activity	◆ Design and implementation of an SSH key management solution. ◆ Administration and operation and PKI. ◆ Troubleshooting and error analysis
Technologies	◆ Linux, RHEL, Active Directory ,Wildfly/Jboss, EJBCA, Vault by Hashicorp, OCSP, LDAP, PKI, Key Store, Boxcryptor, AD Federation Services, TLS, SSO.

Period	2018-2020
Industry	Agency
Company	BWI IT für Deutschland

PKI Consulting

Activity	
	◆ Conception and system architecture of a PKI platform
	◆ Administration, deployment, release management and troubleshooting of PKI software/components
	◆ Certificates, keystores and truststores management.
	◆ Auto-enrollment of certificates.
	◆ Smart Cards Pre-personalization, personalization, and management
	◆ Interfaces, configuration and connection
	◆ PKI monitoring and log management.
	◆ Operation and server/system hardening.
Technologies	◆ SLES, RHEL, Windows ,Nexus-OCSP, Certificate Management, Nexus-Prime, X.509, LDAP, LDAPS, HSM, Issuing CA, Root CA, PKI Token, DSGVO, Certificat Procedure, Distribution Rule, Key Store, CRLs, Check_MK, Docker, Kubernetes, Orchestration, Cloud, Microsoft Azure, REST,SOAP, API, Gitlab, Apache, Tomcat, Mod_jk, D-Trust, Proxy, CEP, CES, NDES, WinEP, Nexus Gateway, Vulnerability Reports...

Period	2018
Industry	Service
Company	FUJITSU

ApplicationManagement & DevOps

Activity	
	◆ Installation and version upgrade of a J2EE application
	◆ Troubleshooting and analysis.
	◆ Deployment and Release Management
	◆ Creation of security concepts for networks, applications and systems.
	◆ Web security and IT baseline protection.
Technologies	◆ Linux, Unix, RHEL, Oracle, DB2, Debian, Jboss, Activemq, Nagios, Puppet, Check_mk, Server/Application Performance, Analysis and Troubleshooting, Infrastructure Optimization, Keystore, Root CA, Openssl.

Period	2018
Industry	Bank
Company	※ Rothschild & Co (Rothschild Bank Switzerland)

Websphere and Security Consulting

Activity	◆ Websphere Liberty configuration and troubleshooting. ◆ SSO Configuration of Finantex Software on Websphere ◆ Web Services Configuration, SPNEGO,Kerberos,HTTPS... ◆ PKI and Keystore
Technologies	◆ Linux, Unix, Websphere, Active directory, Kerberos, OracleWebservices, SSO, SPNEGO, Constrained delegation, Apache...

Period	2016-2017
Industry	Logistics
Company	**DB** (Deutsche Bahn)

System Architect& DevSecOps

Activity	◆ System Design and System Architecture ◆ Application Management ◆ Migration of servers and applications ◆ Creation of security concepts for networks, IT systems and applications. ◆ Security analysis and pentesting. ◆ Management of digital signatures and certificates: PKI domain and subdomain, encryption algorithms: RSA and DES. ◆ 2nd and 3rd level Support, Error Analysis, Troubleshooting
Technologies	◆ Cloud, RZ, Audits, Linux, Unix, SLES, RHEL,Vmware, Veritas Cluster, HA, Netapp, Nagios, Postfix, Icinga,Check_mk, ocfs2, Pacemaker, GPFS, Websphere 8, Profiles, JMS and JDBC Connection Java, JVM, Threaddump, F5 Load balancer, Squid Proxy, PKI, SSL, Oracle, Mysql, Penetration tests, Cryptography, Footprinting, Scanning, Enumeration, Sniffers, Deny of Service, Session Hijacking, SQL Injection...

Period	2015-2016
Industry	Agency
Company	ARD® ZDF Deutschlandradio BEITRAGSSERVICE

	Application Management & **DevOps**
Activity	◆ Migration, upgrade, and installation of IBM FilenetP8: installation, configuration, and troubleshooting. ◆ Design, installation and performance testing of versioning software. ◆ Design, installation and performance testing of a code source management system. ◆ 2nd and 3rd level support, error analysis, troubleshooting ◆ Shell script for backup and restore of Mysql DB ◆ Creation of security concepts, SSL certificates, HTTPS, keystore... ◆ Certificates management in mixed Linux/Windows environments and integration into web components. ◆
Technologies	◆ IBM FilenetP8, Apache, Websphere, Kerberos, SSO, PKI, SPNEGO, Kerberos, HA, Cluster, DB2, ITIL v3, Nagios, Serena PVCS, Bash Scripting, Sonarqube,Maven, JUnit, Mysql, Oracle, SLES, Linux, AIX, AD, Ldap., Traffic Analysis, Log Analysis, Fiddler.

Period	2015
Industry	IT Services
Company	eeX (Europe Energy Exchange & E-Werk)
	Application Management & **DevOps**
Activity	◆ Service management of a trading software according to ITIL v3 ◆ Design and migration to data center. ◆ Technical Project Management
Technologies	◆ Linux, Unix, Windows Server 2008 and 2012, Kerberos, AD, Oracle, Mysql DB Design, System Performance, Cloud Migration, SSH,SSL Certificates, tcpdump, Wireshark, Microsoft Projects, Vsphere, Cluster and HA, Logstash, kibana, Elasticsearch, iproute, iptables, Apache, Tomcat.

Period	2011-2014
Industry	Automation/Banking
Company	KEBA (KEBA)
	DevOps
Activity	◆ Deployment and administration of J2EE software based on Jboss, Liferay, Apache and SonicMQ.

- ◆ Clustering and High Availability.
- ◆ Jira and Confluence installation, migration, version upgrade and performance checks.
- ◆ Design, installation and administration of backup solutions
- ◆ Dist Upgrade of Operating Systems and Patch Management
- ◆ Server, Application and Database Migration
- ◆ Development of cluster test scripts
- ◆ Migration from physical servers to VMs.
- ◆ Server Performance Testing
- ◆ Automation Script Development
- ◆ Browser and Task Automation

Technologies	◆ Unix,Linux,Red Hat, SLES, Debian, Windows, Solaris, Jboss,Wildfly, Liferay, SonicMQ, Apache, Tomcat, mod_jk, Proxy, Reverse Proxy. Jira 4 to 6,SCCM, Plugins, KPIs, SLAs, Confluence, Bacula, Bash Scripting, Mysql, Postgres, Perl, html, bash, Powershell, Kerberos, Xen, Vmware, Hyper-V, Solaris Zone, Bonnie++, Dacapo, Java, PHP, Hobbit, Xymon, Nagios, RRD Graphene, Reports, Casperjs, Selenium, Maven, Java, Build Server, Teamcity, Wireshark, Tcpdump, Aide, Firewall, ssh, Cloud.

Period	(2010-2011)
Industry	Service
Company	CABLEWAY (Cableway)
Role	**System Administration**
Activity	◆ Conception and administration of the IT landscape: servers, network, infrastructure ... ◆ Design and installation of a video conferencing solution ◆ Security, Firewall Management and Email Encryption ◆ Administration of AD domains
Technologies	◆ Openmeeting, Bash, Win Server, Linux, Debian, Redhat, AD, GPO, Terminal Server, Exchange 2003, Postfix, ISA 2006, Aide, PGP, SSL, SSH.

Period	(2008 -2009)
Industry	Service
Company	CNT group (CNT Group)
	IT Security Consulting

Activity	◆ Configuration and troubleshooting of update servers ◆ Configuring AD domains and subdomains ◆ Web Server, Proxy Server, Power Shell, Encryption, Firewall ◆ Network design, configuration and monitoring ◆ Security Policies, Backup, Security Concepts and PKI ◆ PKI, Digital Signature, Email Encryption, Root CA, Certificate Revocation. ◆ Encryption algorithms: RSA, DES
Technologies	◆ Exim, Exchange 2003, WSUS 3.0, Windows Server 2003 and 2008, Subdomains, Apache, Tomcat, Squid, SSL, SSH, BSI Grundschutz, IDS, Wireshrk, tcpdump, DHCP,DNS, Routing, Tcpdump.