

HALUK DURMUSOGLU

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Solutions/Security Architect/Lead/Engineer

Professional Cloud Technology Consultant with 20 + years of IT/Telecommunication industry experience. Design solutions that help customers migration, operate, deploy scalable, and optimize cloud-based infrastructures and applications on AWS. Technical lead/principal software security engineer skilled in best practices and passionate in developing the functionality and security of code in a Secure Software Development Life Cycle (S-SDLC) framework. Define processes for planning and requirements, architecture and design, test planning, coding, testing and results, release and maintenance. Focused on security, quality and continuous process improvement and CI/CD. Build strong relationships with internal partners to identify and facilitate solutions. Mentor and coach technical teams and peers to support organizational growth. Lead development with vision, effective communication, accountability, and strategic business acumen.

Highlights

- CI/CD/DevSecOps
- Kubernetes on Docker
- Cyber Security/Risk Management
- Agile Methodologies / Scrum
- Malware Analysis / Solutions
- Algorithms / Data Structures
- Project Management
- Software Product Management
- Scripting Language
- Process Improvement
- Threat Detection / Forensics
- Security Tools
- S-Software Development Life Cycle
- Mobile Devices
- Wireless Technology
- Cloud Computing
- Incident Response
- Web Application Security

Tools and Technology

- AWS; EC2, S3, IAM, VPC, Trusted Advisor, CloudWatch, CloudTrail, CloudFormation, DynamoDB, CodeCommit, CodeDeploy, GitLab, Puppet, WAF, Python, YAML, XML, JSON, CSS, NoSQL, DAST, SAST, OpenID, OAuth
- Linux, OSI, OWASP 10, BurpSuite, ZAP, BlackDuck, Alert Logic, PSTN, GSM, UMTS, LTE.
- NIST SP 800-53, CIS, ISO27000 families, PCI-DSS, SOX.

Certifications

- AWS Solution Architect Associate

Professional Experience

Freelance

2020 – Current

AWS Solutions/Security Architect, Washington, DC

- Architect secure, scalable, resilient solutions that will help clients migrate, deploy operate, and optimize cloud-based applications and infrastructure.
- Migrate customer on-premise application to AWS Cloud environment using Cloud Migration Services.
- Responsible for migrating customers applications running on VMware platform to AWS cloud environment, increasing latency to AWS RDS, Route53, and Data Lake.
- Responsible for customer data encryption on customers premises by using Customer master keys (CMKs)
- Use Identity Access Management (IAM) to create roles and users with the least access permission granted.
- Invoke Lambda function over HTTP using Amazon API Gateway as HTTP endPoint.
- Responsible for managing the functionality of the web-based application by creating a read replica from the primary database
- Provisioned EC2 instances and managing S3 Storage application
- Providing security solutions architecture evaluation and establishing a process for assessing and auditing security exceptions.
- Develop and maintain a security architecture process that enables the SMEs to develop and implement security solutions with Open Source Tools.
- Prepare analytical reports on security incidents in SMEs by using NIST SP 800-53 and CIS checklists.
- Secured application security and S-SDLC by providing secure coding training in C++ and Java.
- Worked cross-functional with team members to develop threat models.
- Trained software engineers about security, secure coding principles in C++, Java, Python, Ruby, Scrum Master.
- Collaborated with external consultants to perform BSIMM audits to assess system security.

Turkcell Global Bilgi

2018 – 2020

Security/Solution Architect, Istanbul, TR

- Support the design of information security systems and operate solutions that effectively balance business needs with cybersecurity requirements.

- Identify emerging security threats and accordingly, architect elements/controls which can mitigate such threats
- Ensure alignment of security controls, standards, and frameworks with business and technology strategy
- Identify security design gaps in existing and proposed architectures and recommend suitable changes/enhancements.
- Prepare the vulnerability test for PCI-DSS readiness to handle audit reviews.
- Attend the CAB meetings to identify the risks of the changes done by IT teams.
- Technical security assessments and configuration reviews of a broad range of solution components –IT network and perimeter controls, endpoint/server security, email protection, Identity and Access management platforms, etc. and facilitate remediation/closure of findings
- Defining, governing and updating information security policies and procedures for systematically managing our company's sensitive data on DLP.
- Expertly coordinate, design and implement monthly vulnerability scanning and remediation utilizing various scanning tools such as Nessus-Tenable SC.

- Analyze security policies in Palo Alto NGFW to provide complete protection in networks to prevent attacks based on Web sites, IPs, Apps.
- Define computer security requirements for high-level applications, evaluate/approve security product capabilities and develop solutions to Multi-level Security(MLS) problems.
- Perform Risk analysis, including risk assessments to design recommendations based on long-term IT organization strategy.
- Lead data protection initiatives to ensure adherence to the EU GDPR about the handling of PII and PHI data.
- Organize "Security Awareness Training" to staying safe online and to introduce new knowledge to colleagues about internet security and privacy.

AVEA Wireless Mobile Operator, Istanbul and Izmir, TR
Network Solutions Manager Engineer

2001 – 2017

- Provide in-depth advice on cyber-attacks to BCP and DRP experts in the company.
- Work with network, platform, engineering and development teams in architecture design and review session.
- Work with technical and senior leadership staff to turn business directives into functional implementations.
- Minimized risk and ensure business continuity by pro-actively limiting the impact of a security breach.
- Assists in developing and conducting risk assessments, as well as identifying prevention and mitigation efforts that result from such work.

Hughes Network Systems, Germantown, MD
Software Test Engineer

2000 - 2001

- Cellular and satellite communication system design and test for the Hughes Mobile Cellular Satellite system on Thuraya Project that delivered to UAE Mobile Satellite an operating company with test plans for secure software development as required.
- Contributed to a holistic approach to risk assessment for each application.
- Design, develop and deploy software with secure features by Agile Methods to the customers.
- Work with Testing tools for SAST and DAST (Static/Dynamic Application Security Testing)

Nortel Networks, Istanbul and Miami, FL
Software Support and Test Engineer

1994 - 2000

- Technical SME/Responsible for the delivery of the data network project on time for mobile wireless operators, planned enterprise data networks (LANs, WAN) to reach the best solutions with Nortel Networks data products.
- Prime responsible for deploying software products into the telecommunication platforms.
- Develop, design, and execute test cases for telecommunications software on ISDN SS7 ISUP
- Identify and isolate bugs using debugging and performance analysis tools on white-box testing experiences.
- Create a strategy for managing patches and upgrades for software applications and technologies.

Education

Bachelor of Science, Electrical Engineering, Istanbul Technical University.
Adjunct Professor, Networks - Operating, and Securing Wireless Networks, Ege University.