



Asmit Raj

Assistant Manager- Cyber Security

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Experienced professional with 7 years of experience in Risk Consulting (Cyber Security) practice. Proficient in Threat Led Penetration Testing, Red Team Assessment, Web application and Infrastructure Vulnerability Assessment and Penetration Testing, Source Code Review, Third Party Risk Assessment, Cloud Security and Cyber maturity assessment. I am a experienced Red team professional with extensive experience in framework design and scenarios development specific to client and business needs. I have been an integral member of the team for various Multi-firm engagement where I have helped the firm across the globe (Egypt, Japan, Jamaica) to establish cyber security as service and helped them to design various security controls and framework. I am also a part of KPMG global cloud community which is responsible for cloud transformation service development. I have worked with client across various sectors such as Financial institution, E-commerce, Oil and Gas, IT Industry and various government entities including defense.



Skills

- Red Team Assessment
- Web application & Infrastructure Penetration Testing
- Cloud Security Assessment
- API Security
- Secure Code Review
- Threat Modelling
- Network Architecture Review
- Threat Led Pentest

- ISO 27001
- Third Party Risk Assessment
- Configuration Review
- Mobile Application Security



Work History

2018-04 - Current

- **Assistant Manager**

KPMG India, Bengaluru, Karnataka

- **Web application & Infrastructure Penetration Testing**

I have conducted VAPT on almost 100 web application and infrastructure across various sectors such as Financial Institution, E-commerce, Digital Wallets, Oil & Gas, IT service company etc. I have reported severe security vulnerability such as SQL Injection, Cross-Site Scripting, Server-Side Request Forgery (SSRF), XXE Injection, reverse shell through anonymous access to SMB server, sensitive information disclosure etc. I have helped the developers to remediate the vulnerability through continuous cycle of testing and providing the input to remediate the vulnerabilities without disrupting the normal business.

- **Red Team Assessment (Leading Financial Institution, JAPAN)**

Conducted red team assessment for leading bank in Japan where I was able to bypass the physical and logical security of bank. The engagement was based on TTP (Tools, Tactics & Procedures) scenarios and each scenario was mapped with MITRE Framework. I was able to successfully conducted phishing campaign and harvested the credentials bypassing multi-factor authentication. I was able to elevate privileges from Domain Admin of a child domain to Enterprise Admin on the forest root by abusing Trust keys and krbtgt account. Further I went ahead to bypass the EDR using custom malware and was able to take reverse shell on one of the target systems.

- **Cyber Maturity Assessment (Oil & Gas Company, QATAR)**

Performed cyber security maturity assessment over 9 domains for a major oil and gas client in the middle east. The assessment was particularly significant for planning the client's future cyber strategy and governance policies. I along with the team were able to provide the client with intelligent insights into the cyber security maturity and designed ISMS framework for the client.

- **Risk Assessment (IT Service Company, INDIA)**

I led the cybersecurity readiness assessment based on ISO 27001 and NIST cybersecurity framework for IT/ITES service provider.

- **Cloud Audit (Digital Bank, DUBAI)**

Performed review of Microsoft Azure Infrastructure and the controls around deployment into the cloud environment. I reviewed network infrastructure (Both cloud and on premise) diagrams including connectivity between all access points and perimeters. The scope of the engagement was to reviewed security controls on Azure applications, Office 365 and Azure active directory, Azure Cosmo DB, Disaster recovery, cryptographic key management, key rotation & key vault. The key deliverables of the engagement were to provide a detailed report of areas that were reviewed in depth and the identified controls gaps along with recommendations to mitigate the risk.

2017-09 - 2018-03

- **Security Consultant**

TEKsystems, Bengaluru, Karnataka

As a security consultant, I was working for HP R&D to evaluate the security of their products. I performed end to end penetration testing on their products, in-house built applications and infrastructure. I also conducted code review where I analyzed the code of the application in development and reported security bugs using agile methodology. This process helped the team to build secure application by eliminating most of security risk during development phase only.

2015-09 - 2017-08

- **Security Analyst**

Paladion Networks Pvt Ltd, Bengaluru, Karnataka

As a security analyst, I performed vulnerability assessment and penetration testing on web applications and infrastructure & API (REST & SOAP). I was responsible to report critical vulnerabilities, drafting technical and executive report and conducting debrief call with the stakeholders. I was also helping the developer to remediate the bugs reported by providing optimal solution.

2011-06 - 2015-05



- **Education**

- **Bachelor of Technology: Computer Science**

Jaipur National University – Jaipur



Accomplishments

- 'Above and Beyond' award for my work in a red team engagement with Japan client where I lead the Red team assessment and went on to compromised the domain controller which was coined as a very secure environment by the client.



Certifications

- OSCP
- AWS Certified Security Specialist (SCS-C01)
- CEH v9
- AZ-500 (Microsoft Certified Azure security Engineer Associate)