Pawan Gambhir

linkedin.com/in/pawangambhirr/ | pawangambhirr@gmail.com | pawangambhir.tech | (+91) 9119723725

SUMMARY

Security researcher specializing in cloud security and penetration testing, with expertise in securing AWS environments and conducting vulnerability assessments

WORK EXPERIENCE

Cloud Security Club   **June 2024 - Sept 2024**
Security Researcher (AWS)

- Conduct root cause analysis on diverse AWS environments, resolving vulnerabilities to enhance security posture.
- Develop 15 intentionally vulnerable AWS labs using Terraform, educating 1000+ professionals on common misconfigurations and best practices.
- Author 10 technical blogs focusing on AWS security, covering topics such as vulnerability analysis, secure configuration practices, and threat mitigation strategies
- Research and implement new security measures to create secure AWS environments, reducing misconfigurations through preemptive strategies.

SKILLS

AWS – IAM, EC2, CloudTrail, CLI, S3, SQS, SES, SNS, Route 53, VPC, RDS, CloudWatch, DynamoDB, Lambda etc.
DevOps – Docker, Docker-compose, Gitlab, Kubernetes, Terraform, Iac, CI/CD automation - Jenkins.
Programming Languages – Python, C, C++
Scripting Languages – Bash, Python
Security – OWASP 10, Pacu, Graphrunner, BurpSuite, Metasploit, Nmap, Cloud pentesting, Web Pentesting, Prowler

CERTIFICATIONS

AWS Certified Solutions Architect Associate   **Achieved June 2024**
AWS Certified Cloud Practitioner   **Achieved Dec 2023**

TECHNICAL PROJECTS

Paws-enum - AWS Enumeration script (Bash, AWS CLI)

- A bash script utilizing AWS CLI commands to enumerate IAM, S3, and EC2 resources, identifying security misconfigurations. Results are formatted and stored in a report file using 'jq'.

Svalbard - Password manager & strength checker (Python, SQL, docker)

- Python-based password manager and strength checker adhering to the latest OWASP policy, deployed via Docker. Encrypted with SHA256, passwords are accessible only with a master password.

AWS Email Setup (SQS, SES, Lambda, IAM)

- Automated email processing using AWS SQS and Lambda for scalability and efficiency. Configured AWS, SES and IAM ensure secure, high-deliverability email management.

AWS Three-tier Web Application (EC2, ELB, IGW, Aurora, IAM, VPC, SG)

- A secure, 3-tier architecture with public/private subnets, ELBs for multi-AZ traffic distribution and auto-scaling, and Aurora read replicas for high availability. Key AWS services like EC2, VPC, and ELBs are employed.

EDUCATION

Bachelor of Engineering, Computer Science Engineering (CGPA: 9.36)   **Graduating: July 2026**
Chitkara University, Punjab
Organizations/Awards: Dean's Toppers List, AWS C3 Captain, Cybersecurity Head of OSC.

ACCOMPLISHMENT

- Won first place in the HackExpo 2024 CTF, competing against 51 teams by solving challenges in enumeration, cryptography, binary exploitation, and web penetration testing.
- Chosen as one of 87 AWS Cloud Club Captains from a competitive pool of 1,200 applicants.
- Led a team of 6 members as Head of Cybersecurity at Open Source Chandigarh.

- Recognized by the university for identifying critical vulnerabilities, including a stored XSS resulting in 100% account takeover on their website, resulting in enhanced security measures.