

Ananda Dwi Rahmawati

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Senior Cloud & DevOps Engineer with 6+ years of experience architecting, automating, and optimizing public cloud solutions (AWS, Azure, GCP) for mission-critical environments. Proven track record in cost optimization, security, compliance, and leading cross-functional teams to deliver robust, scalable, and secure cloud platforms. Recognized as AWS Container Hero and Google Developer Expert. Expert in IaC (Terraform, Pulumi), CI/CD (GitLab, Jenkins), and cloud-native architectures. Passionate about documentation, process improvement, and mentoring.

Skills

- Hardware & Operating Systems: Server, Storage, Network; Enterprise Linux (RHEL, Ubuntu, SUSE, Oracle Linux), Windows Server, VMware vSphere, vSAN, ESXi
- Networking & Security: Subnetting, TCP/IP, VLANs, Routing & Switching, Firewalls (Cisco, Mikrotik), VPN, SD-WAN, Zero Trust, AWS VPC, Transit Gateway, PrivateLink, Direct Connect, AWS WAF, Azure Firewall, Cloud Armor, Private DNS, Route 53, AWS Global Accelerator
- Compute & Containers: AWS ECS, Fargate, Lambda, EC2 Auto Scaling; Kubernetes (EKS, K3s, GKE), Docker, Podman, CRI-O, Containerd, OpenShift, Docker Swarm, Helm
- Storage & Databases: S3, EBS, EFS, FSx, Glacier; RDS (PostgreSQL, MySQL), Aurora, DynamoDB, MariaDB, Cloud SQL; Ceph, GlusterFS, Rook; AWS Athena, AWS Glue, Object versioning & lifecycle policies
- Backup & Disaster Recovery: AWS Backup, Azure Backup, GCP Persistent Disk & Cloud SQL snapshots, Velero
- Observability & Monitoring: AWS CloudWatch, CloudTrail, X-Ray, Trusted Advisor; Prometheus, Grafana, ELK, StackOps, Datadog, Azure Monitor, GCP Operations Suite, CloudWatch Synthetics, OpenTelemetry, Grafana Loki
- CI/CD & Automation: Jenkins, GitLab CI/CD, GitHub Actions, ArgoCD; AWS CodePipeline, CodeBuild, CodeDeploy, CodeStar; AWS CDK, Pulumi, Terraform, CloudFormation, Ansible, Puppet; Azure DevOps, Azure Pipelines, Azure Repos, Azure Artifacts; Secrets rotation automation
- Security & DevSecOps: IAM, KMS, Secrets Manager, Security Hub, GuardDuty; CodeSCAPE, CloudSCAPE, VAPT remediation, SAST/DAST, container image scanning, vulnerability management
- Service Mesh & API Management: Envoy, Istio, Linkerd, AWS App Mesh; API Gateway (AWS, Azure)
- Windows Administration: Active Directory, File & Storage Services, IIS, RDP, WSUS
- Version Control: Git, AWS CodeCommit, Azure Repos
- Programming & Scripting: Python, Bash, Go, Java
- GovTech Singapore Stacks: GCC 1.0/2.0/+, CStack, StackOps, CloudSCAPE, CodeSCAPE, TechBiz, TechPass, IM8, SGTS tools, CAM, Splunk

Work Experience

ACP Group (Outsourced to GovTech Singapore)

Cloud & DevOps Engineer (Cloud File Transfer Product)

Oct 2024 – Present

Singapore, SG

- Operated AWS infrastructure across dev, UAT, and production for a government file transfer platform.
- Migrated legacy infrastructure to AWS using Terraform and Pulumi, reducing provisioning time from days to hours.
- Built observability stack (CloudWatch, X-Ray, ELK, Synthetics), reducing mean-time-to-resolution for production incidents.
- Developed GitLab CI/CD pipelines with drift detection, security validation, and approval gates.
- Deployed ECS clusters with Fargate, implementing auto-scaling and Blue/Green deployments for zero-downtime releases.
- Designed secure traffic architecture using PrivateLink, Transit Gateway, WAF, and CloudFront, improving latency and throughput.

- Eliminated long-lived credentials via OIDC-based IAM role assumption, reducing credential management overhead and security risk.
- Enforced least-privilege IAM policies with continuous compliance validation using AWS Config.
- Automated security controls: VAPT remediation, container hardening, patching, log retention, and KMS encryption.
- Built compliance scoring automation, streamlining audit preparation and evidence collection.
- Enforced ECR vulnerability remediation through pipeline-driven image rebuilds, reducing pre-production security gaps.
- Served as Scrum Master, driving sprint delivery and cross-team alignment.

Activate Interactive Pte Ltd

Oct 2023 – Sept 2024

Cloud & DevOps Engineer

Singapore, SG

- Automated Linux/Windows provisioning using Ansible and PowerShell DSC, ensuring CIS compliance and reducing manual configuration drift.
- Architected Alibaba Cloud infrastructure (ECS, VPC, ApsaraDB) to support high-availability application workloads.
- Built multi-AZ Data Lake ETL platform on AWS (ECS, RDS, Lambda, Glue, DataPipeline) using Terraform, enabling scalable and reliable data processing.
- Implemented Azure infrastructure including Virtual Networks, Firewall, AD integration, and Azure DevOps pipelines.
- Designed CI/CD pipelines (GitLab, AWS CodePipeline, Proton) enabling self-service deployments with integrated security scanning.
- Implemented monitoring, logging, and alerting (CloudWatch, X-Ray, Azure Monitor, SNS) to support zero-downtime deployments.
- Built cost tracking dashboards (AWS Cost Explorer, Azure Cost Management), enabling proactive budget management.
- Produced architecture documentation, integration guides, and RCA reports for stakeholder transparency.

PT Boer Technology

July 2019 – Sept. 2023

Cloud Infrastructure Engineer

Bogor, Indonesia

- Architected multi-region OpenStack and Ceph private cloud with high availability using KVM and Kubernetes, serving enterprise clients.
- Developed infrastructure automation (Python and Bash), reducing manual provisioning effort.
- Built monitoring pipelines (Prometheus, Grafana, Alertmanager), maintaining platform reliability and rapid incident detection.
- Integrated VMware vSphere/vSAN/NSX with OpenShift for hybrid-cloud scalability.
- Built CI/CD pipelines (GitLab, Azure DevOps) with security scanning (OWASP ZAP, Burp Suite).
- Managed MySQL and PostgreSQL clusters with failover, recovery, and query optimization for high-throughput workloads.
- Automated provisioning (Terraform, Ansible, ARM templates), accelerating environment setup.
- Maintained observability stack (ELK, Grafana Loki) for log aggregation and root-cause analysis.
- Containerized legacy PHP/Django apps into Kubernetes microservices, reducing deployment cycles from weekly to daily.
- Led multi-cloud migration (AWS, GCP, Alibaba Cloud), optimizing workloads for cost and performance.
- Developed internal automation tools for reporting and documentation, reducing manual toil.
- Contributed to cloud platform R&D, evaluating emerging virtualization and security technologies.

Part-Time or Freelance

2021 - 2023

Freelance Trainer

Indonesia, ID

- Delivered technical training to professionals in banking, government, and private sectors on cloud, DevOps, and security topics.

- Developed hands-on curricula for Mastercard Academy 2.0 and Google Bangkit Academy covering GCP, AWS, Kubernetes, CI/CD, and ELK Stack.
- Designed and facilitated workshops on GCP infrastructure, security, architecture, and DevOps practices.
- Led certification preparation programs for CompTIA Linux+ and Security+.
- Created training materials, assessments, and lab exercises for practical learning outcomes.

Education

Universitas Gadjah Mada

S.Tr.Kom, Software Engineering Technology

Jul 2019 – Feb 2023

Yogyakarta, ID

- GPA 3.84/4.00

Certifications

- HashiCorp Certified: Terraform Associate (003)
- Linux Foundation Certified System Administrator (LFCS)
- The Linux Foundation Certified IT Associate (LFCA)
- AWS Certified (Cloud Practitioner, Solutions Architect - Associate)
- CompTIA Security+ ce Certification
- Google Certified (Associate Cloud Engineer, Professional Cloud Architect)
- Microsoft Certified (Azure Fundamentals AZ-900, Azure Administrator Associate AZ-104)
- Oracle Cloud Infrastructure Certified (Foundations Associate, Cloud Operations Associate)
- Alibaba Cloud Certified (ACASecurity Associate, ACA Cloud Computing)
- MikroTik Certified (MTCNA, MTCRE, MTCWE, MTCSE, MTCTCE, MTCUME, MTCINE)
- LSP TIK Indonesia (Junior Networking)
- Certified OpenStack Administrator, COA

Awards

- AWS Container Hero, 2023 - present
- Google Developer Expert - Cloud Modern Architecture, 2023 - present
- CNCF Ambassador, 2023 - 2024

Community Involvement

- Speaker at Google Cloud Summit Jakarta 2025 - Advanced Scheduling for AI/ML: Orchestrating Ray Applications with KubeRay and Kueue
- Speaker at AWS Summit Singapore 2024 - Multi-Cluster Security with Network Firewall: Consistent Protection for Distributed EKS
- Speaker at Azure Community Conference 2021 – Continuous Delivery using Spinnaker on Azure.
- Additional talks and contributions: misskecupbung.github.io

Organizations

- Kubernetes and Cloud Native Indonesia, 2023 - present
- AWS User Group Indonesia, 2020 - present
- Google Developers, 2020 - present
- Infrastructure Team - BlankOn Linux Indonesia, 2017 - 2020

Links

- Portfolio: <https://misskecupbung.github.io/>
- LinkedIn: <https://linkedin.com/in/anandadwir>
- GitHub: <https://github.com/misskecupbung>