

Azure → AWS Mapping for Interview Prep

A	B	C
Category	Azure	AWS Equivalent
Cloud & Hybrid	Azure, Azure Stack	AWS + Outposts , AWS Local Zones
Networking	VNET, NSG	VPC, Security Groups, NACLs
Identity	Azure AD	AWS IAM, AWS SSO, Cognito
IaC	Terraform, Ansible	Same (Terraform/Ansible)
CI/CD	Azure DevOps	CodePipeline, CodeBuild, GitHub Actions, Jenkins
Containers	AKS	EKS (or self-managed K8s on EC2)
Service Mesh	Istio/Linkerd	Istio/Linkerd on EKS (no native AWS mesh)
DNS	Azure DNS	Route 53
PKI	Azure Key Vault + Certificates	AWS ACM (Certificate Manager), KMS, Secrets Manager
Zero Trust	Azure Zero Trust framework	AWS Verified Access, IAM Identity Center + PrivateLink
Hybrid Identity	Azure AD + Keycloak	Keycloak + AWS IAM / Cognito federation

◆ Interview Prep (AWS Angle)

1. Cloud & Hybrid (AWS + Outposts)

- Know **AWS Outposts**, Direct Connect, VPN.
- Understand hybrid identity (Keycloak ↔ AWS IAM).
Sample Q: How would you extend an on-prem workload to AWS securely?

2. IaC (Terraform/Ansible)

- Practice reusable Terraform modules for VPCs, EKS, IAM roles.
- Ansible: EC2 provisioning, config management.
Sample Q: How do you manage Terraform state in a team? (Answer: S3 + DynamoDB lock)

3. Containers (EKS + Service Mesh)

- Deploy EKS clusters with Terraform.
- Add Istio/Linkerd service mesh (mTLS, traffic routing).
- IAM roles for service accounts (IRSA).

Sample Q: How would you secure pod-to-pod communication in EKS?

4. CI/CD (Jenkins, GitHub Actions, AWS-native)

- Jenkins + GitHub Actions for pipelines.
- AWS CodePipeline + CodeBuild basics.
- Security in pipelines (storing secrets in AWS Secrets Manager).

Sample Q: Walk me through a GitHub Actions workflow that builds Docker images, pushes to ECR, and deploys to EKS.

5. Networking & Security

- VPC, Subnets, Security Groups, NACLs.
- Route 53 for DNS.
- ACM + KMS for certs + PKI.
- Zero Trust: IAM boundaries, Verified Access, PrivateLink.

Sample Q: How would you design a multi-VPC secure network for EKS workloads?

6. Identity (Keycloak + AWS)

- Connect Keycloak with Cognito/IAM for federation.
- OAuth2 / OIDC flows in AWS.

Sample Q: How would you integrate Keycloak as an IDP for an EKS app?

7. Scripting (PowerShell, Bash, Python)

- Bash: automation for AWS CLI commands.
- Python (boto3) for custom provisioning.
- PowerShell (less common on AWS, but possible).

Sample Q: Write a Python script to rotate ACM certificates for an ALB.

✓ AWS-Centric Prep Strategy

1. **Terraform + AWS** → Build reusable modules (VPC, EKS, IAM).
2. **EKS** → Deploy Istio, secure workloads with IRSA & mTLS.
3. **CI/CD** → Jenkins or GitHub Actions → ECR → EKS.
4. **Networking** → Multi-VPC, PrivateLink, Route 53, SGs.
5. **Security** → TLS, PKI, KMS, Secrets Manager.
6. **Identity** → Keycloak + AWS Cognito/IAM federation.