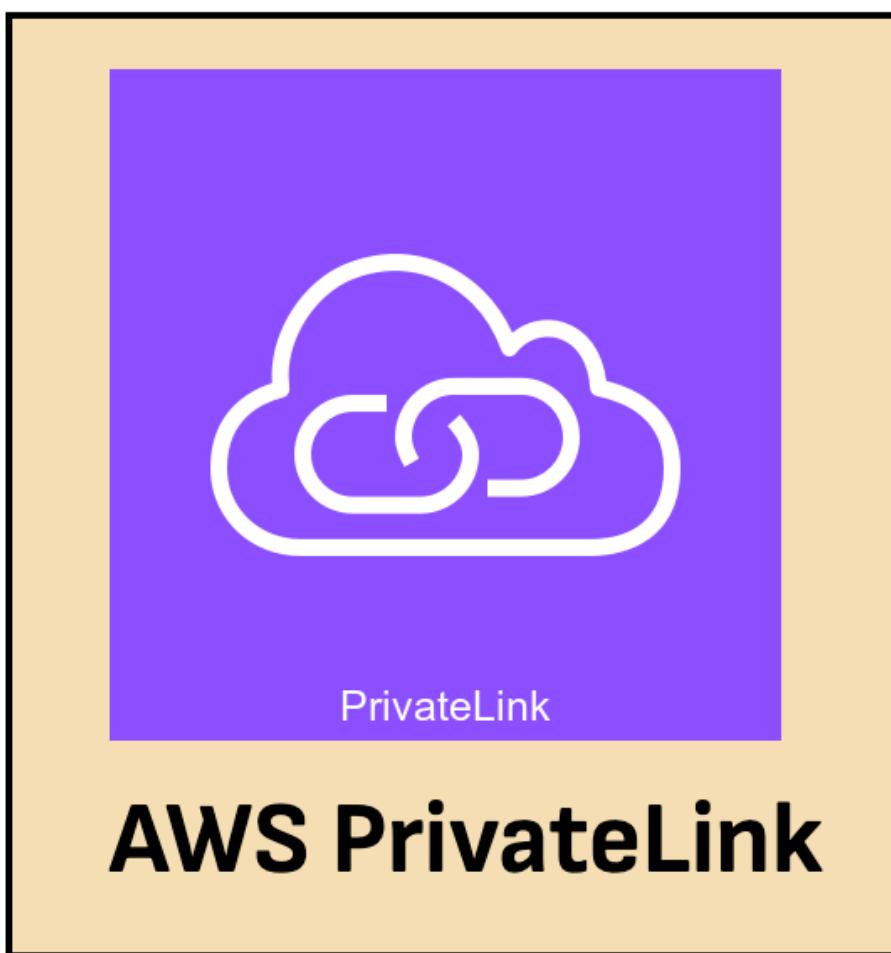




AWS PrivateLink

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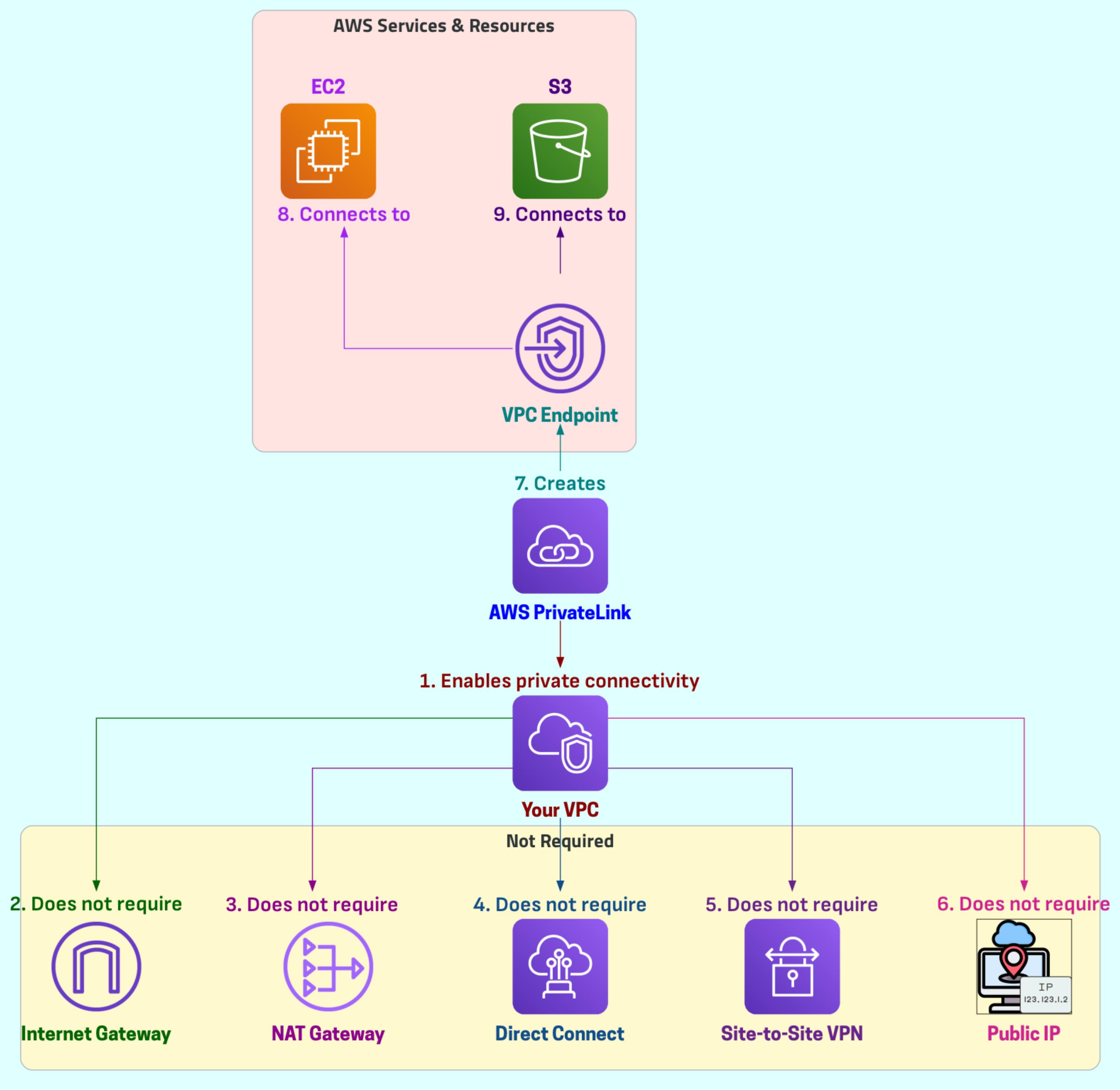
5. Get started with AWS PrivateLink

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What is AWS PrivateLink?



1. 🌐 Private VPC Connection

✓ Highly available, scalable technology

🔗 Connects VPC to services, resources

🏡 As if they were in your VPC

2. ➔ No Public Connectivity Needed

✗ No internet gateway

✗ No NAT device

✗ No public IP address

✗ No AWS Direct Connect

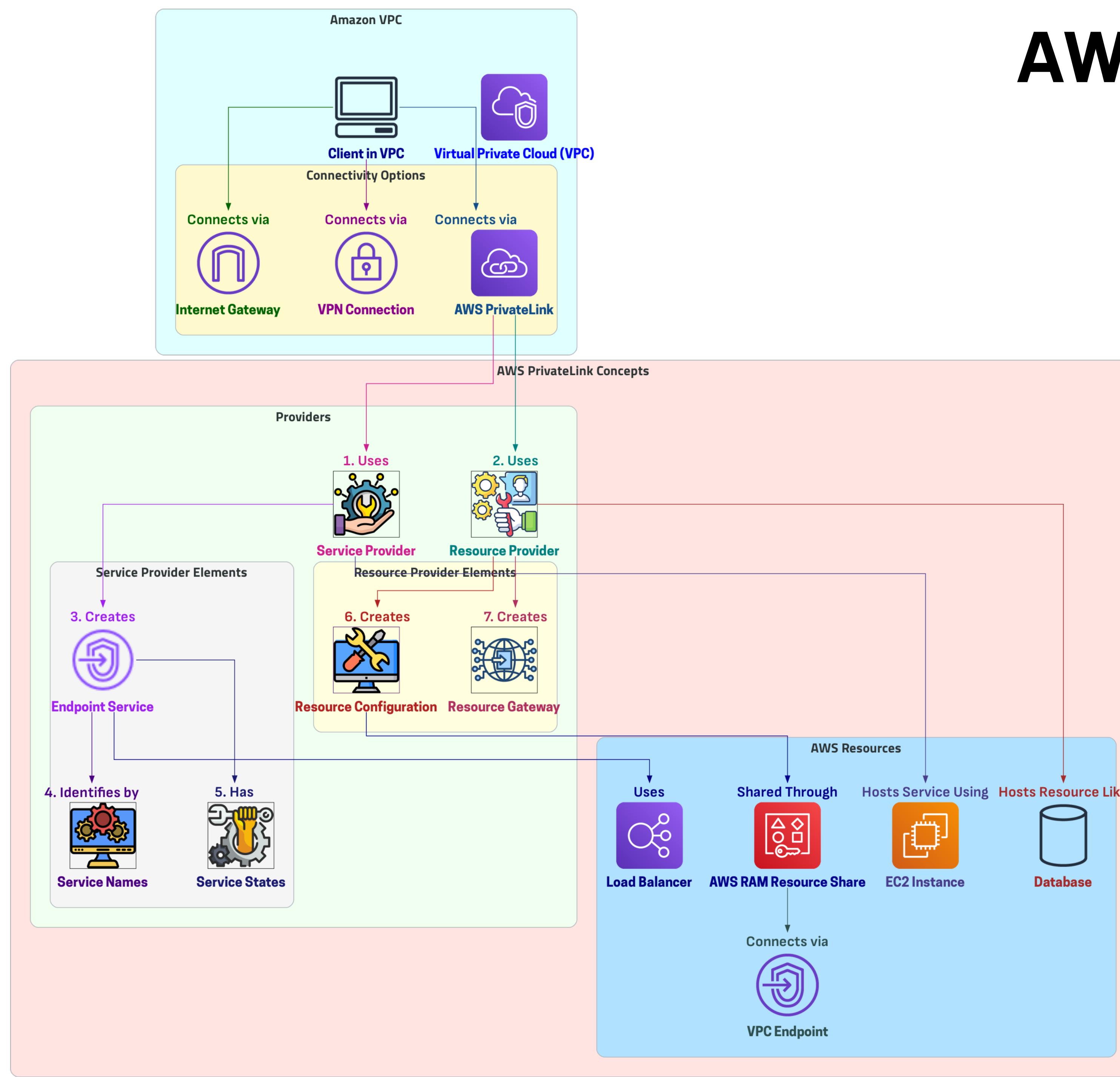
✗ No AWS Site-to-Site VPN

3. 🔒 Enhanced Control

🎛 Control specific API endpoints, sites, services, resources

🔒 Reachable from your VPC

AWS PrivateLink Concepts



1. 🌐 Virtual Private Cloud (VPC)

🔒 Logically isolated network

☁️ Defined within AWS

3. 🤝 PrivateLink Connection

🔒 Uses private IP addresses

🔌 Inter-VPC connectivity

💡 Direct hosting illusion

2. 📁 Connecting Outside VPC

🌐 Internet gateway option

🔒 VPN connection option

🔗 PrivateLink option

4. 👤 Service Provider

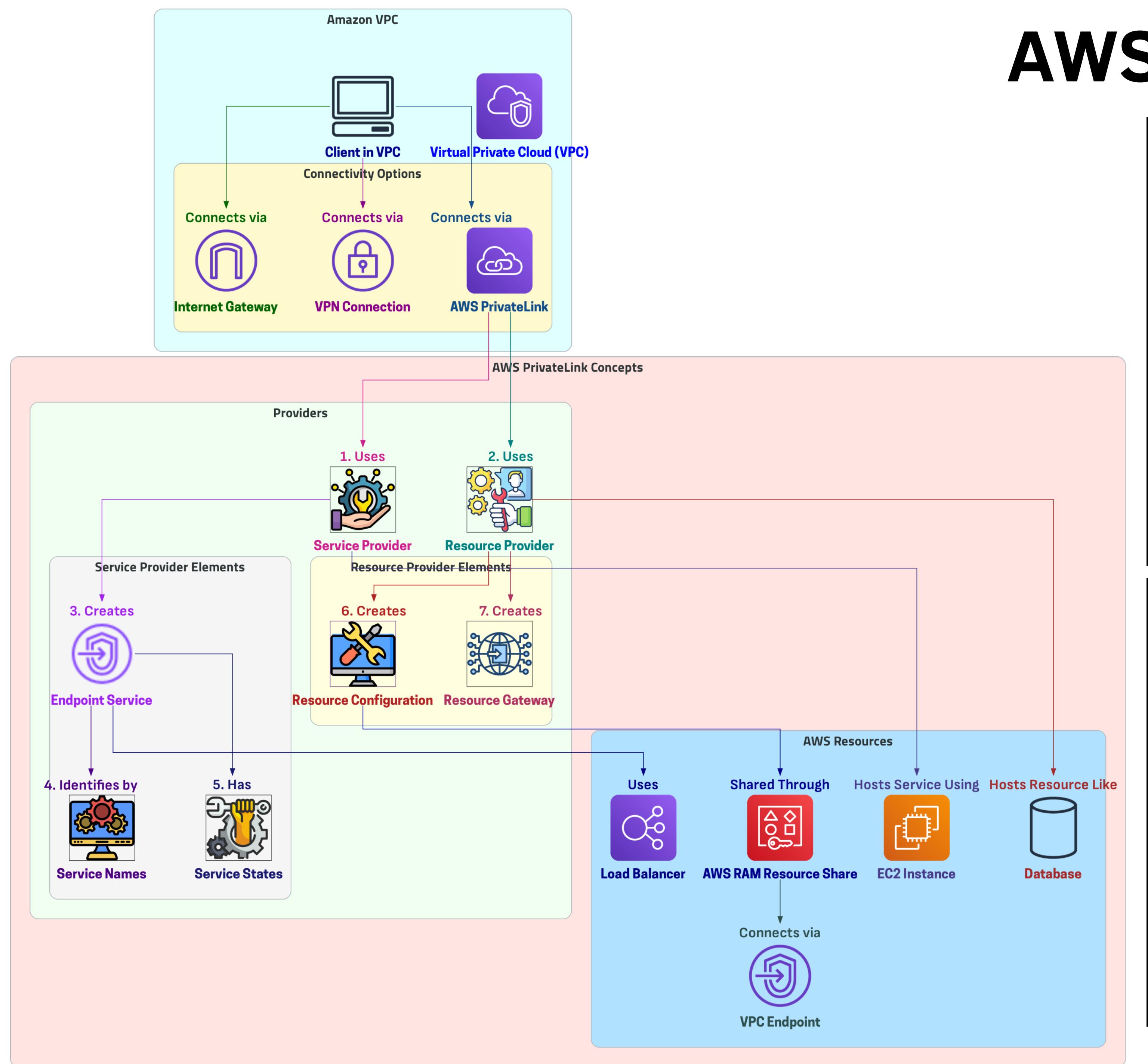
☁️ AWS services

🤝 AWS Partners

👥 AWS accounts

🏢 On-premises option

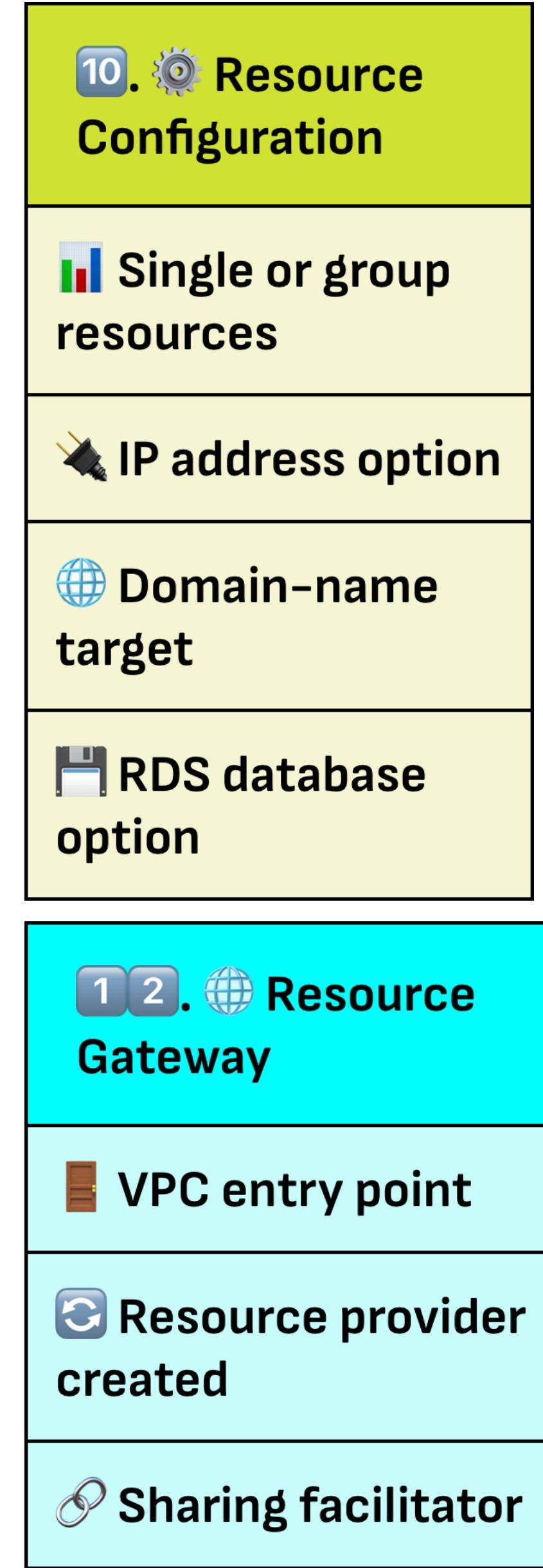
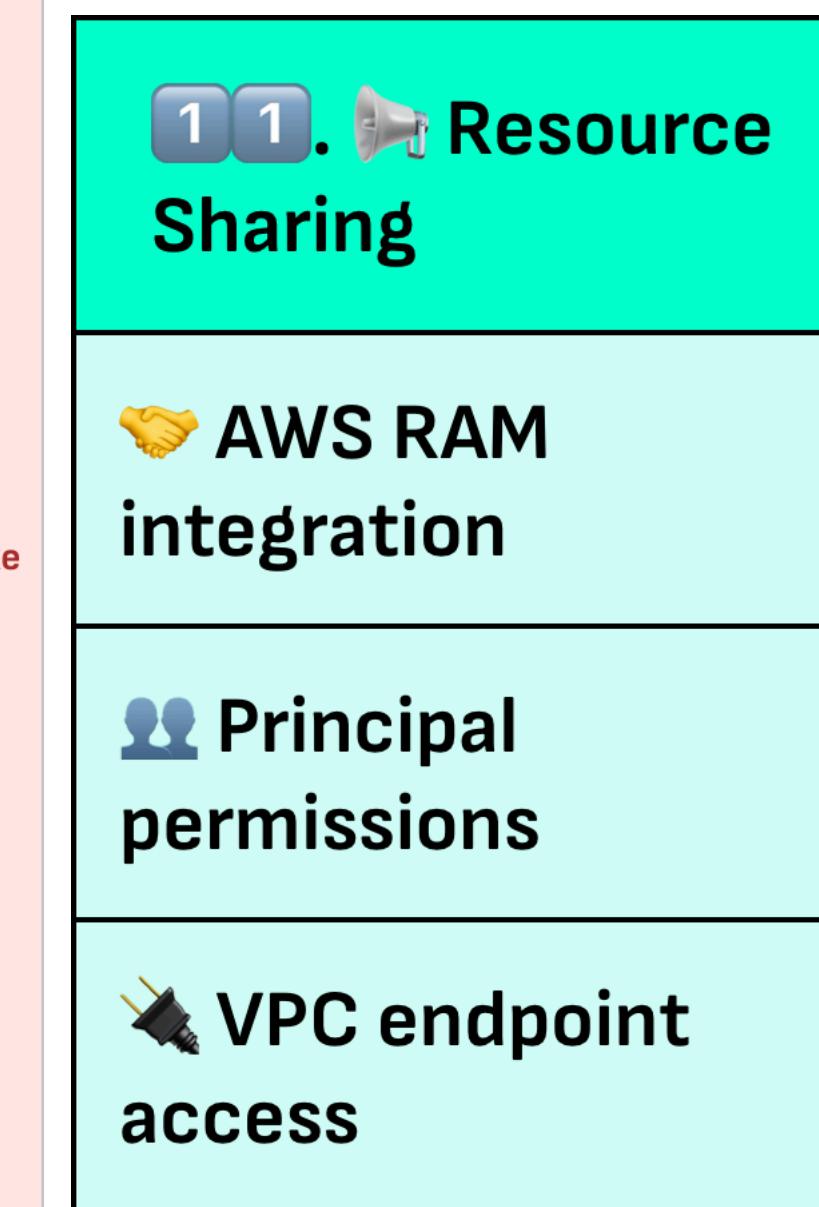
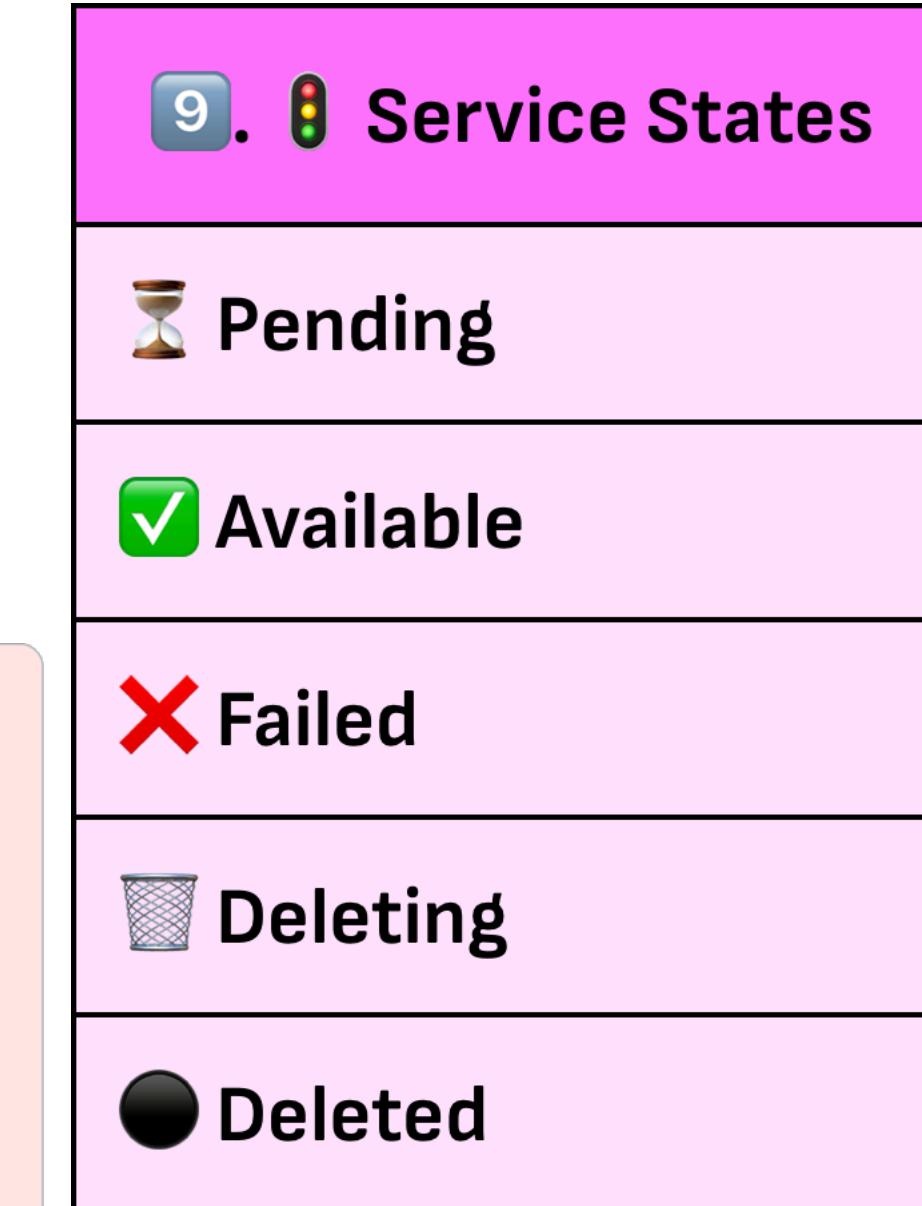
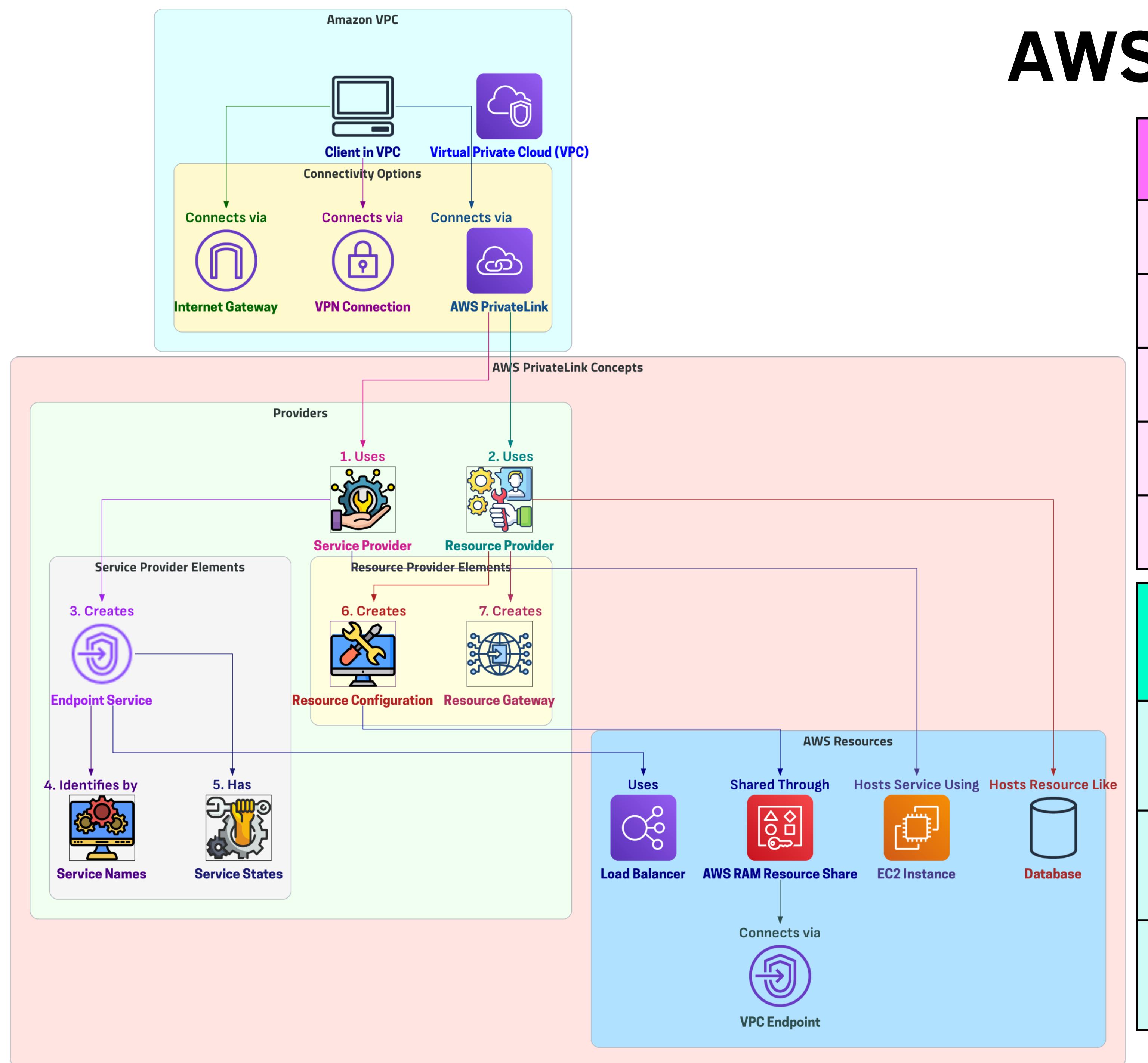
AWS PrivateLink Concepts



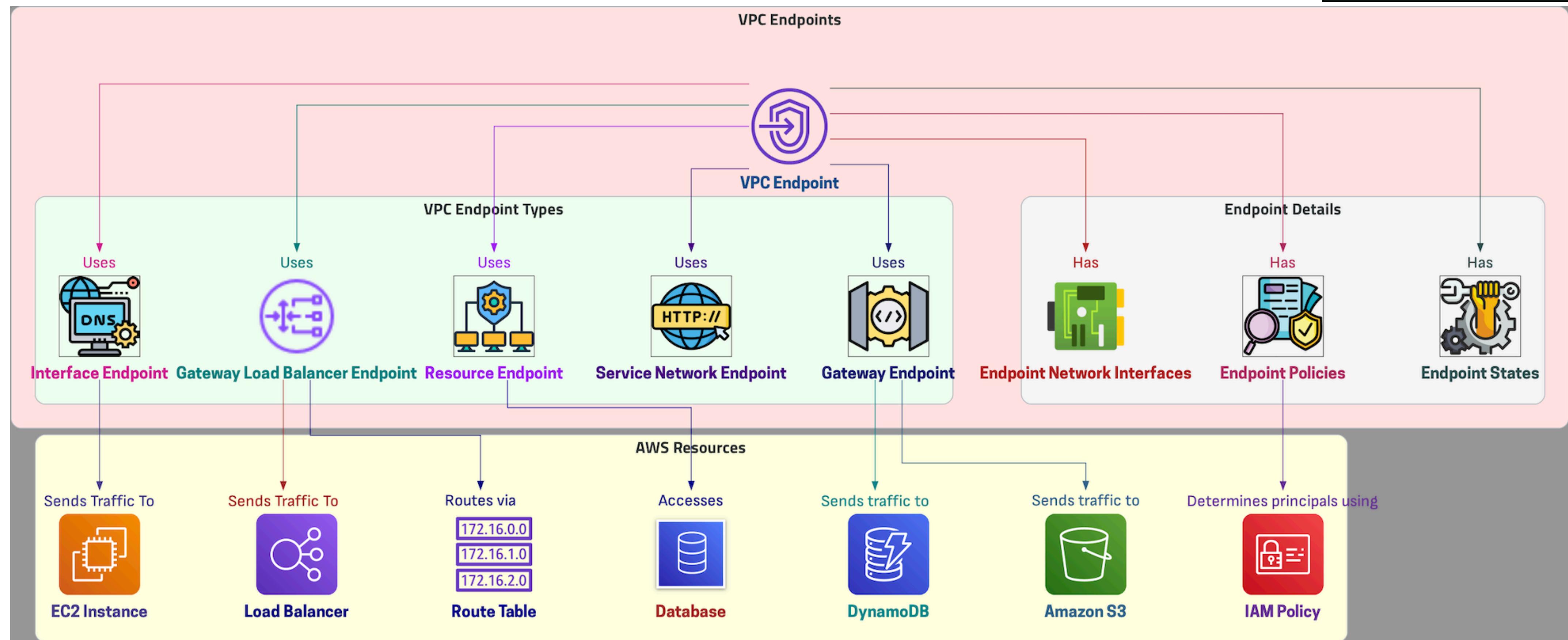
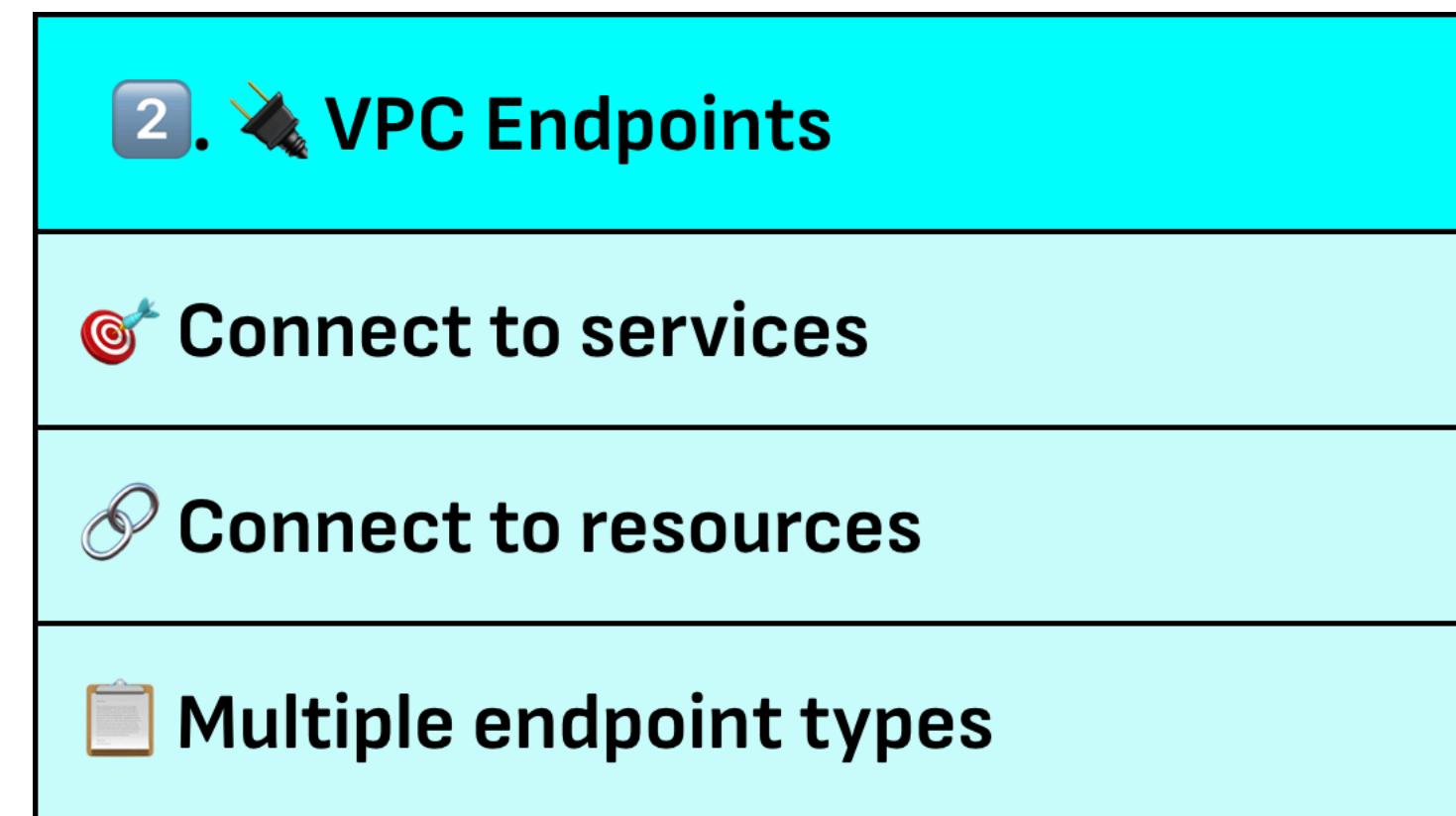
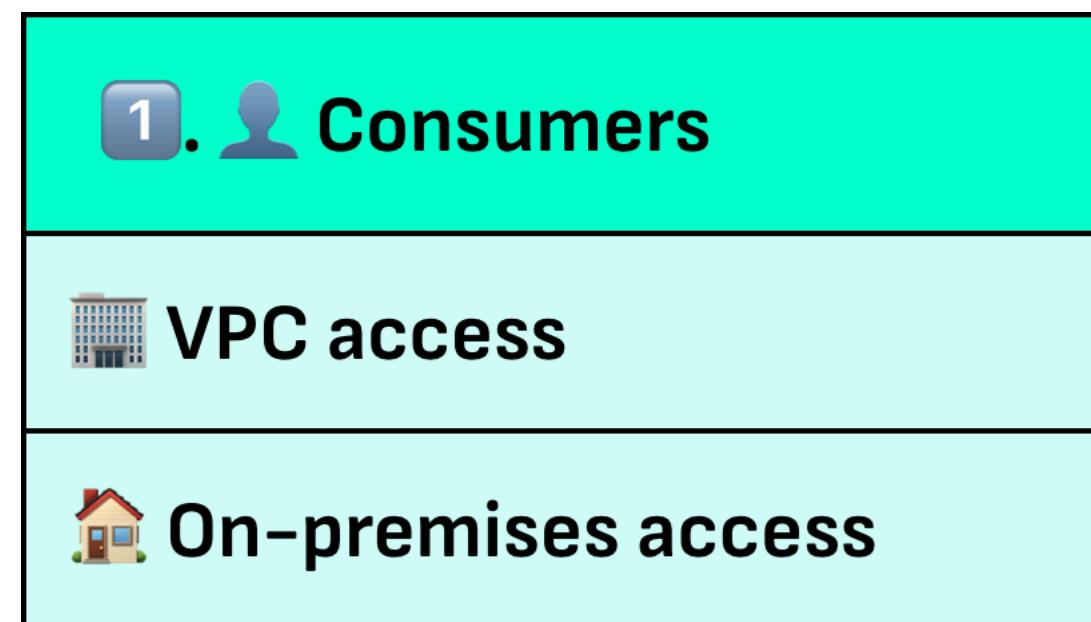
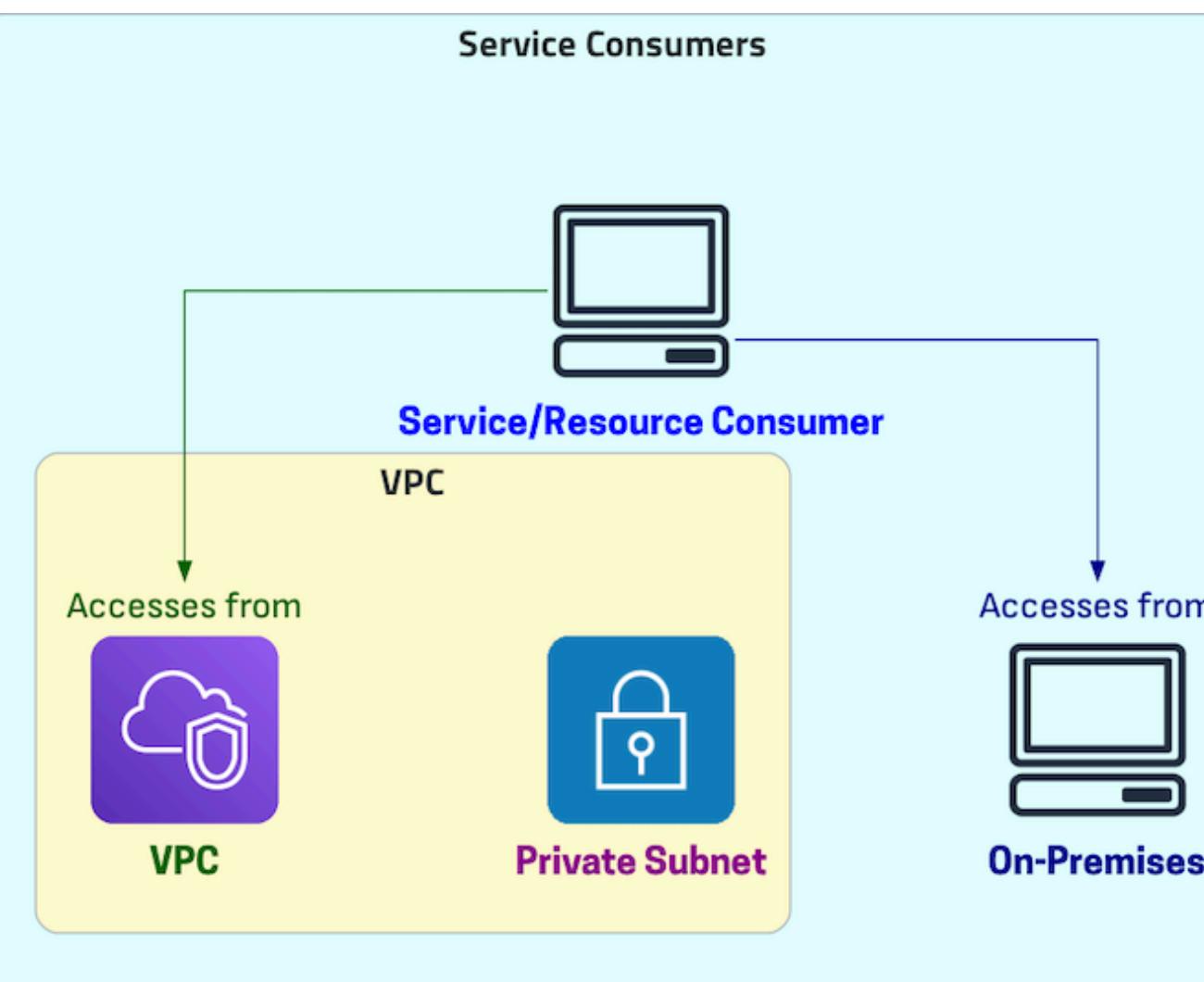
- 5. █ Resource Provider**
- Database ownership
 - Cluster management
 - VPC or on-premises hosting

- 6. █ Endpoint Services**
- Regional availability
 - Load balancer required
 - Request routing
- 7. █ Service Permissions**
- Default: not accessible
 - Specific principal access
 - Provider configuration
- 8. █ Service Names**
- Unique identifier
 - Provider sharing required
 - Required for endpoints

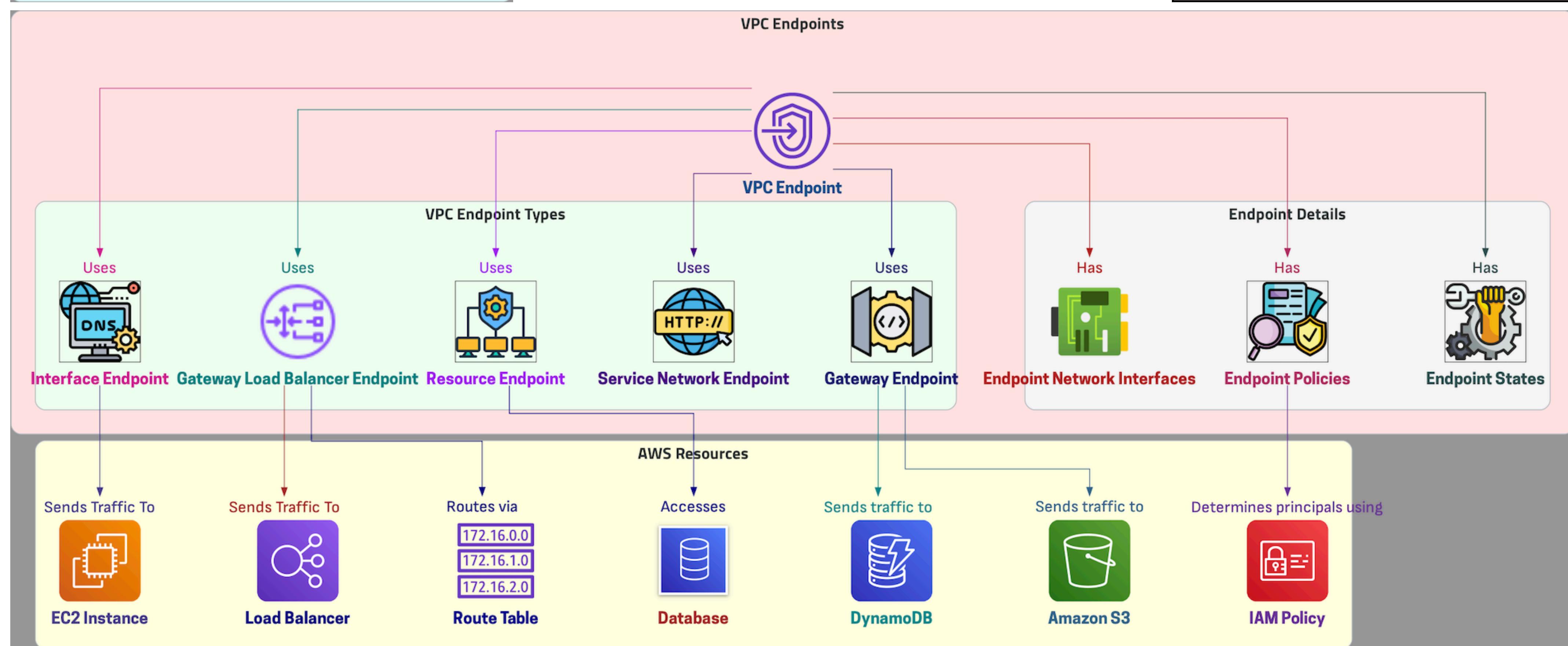
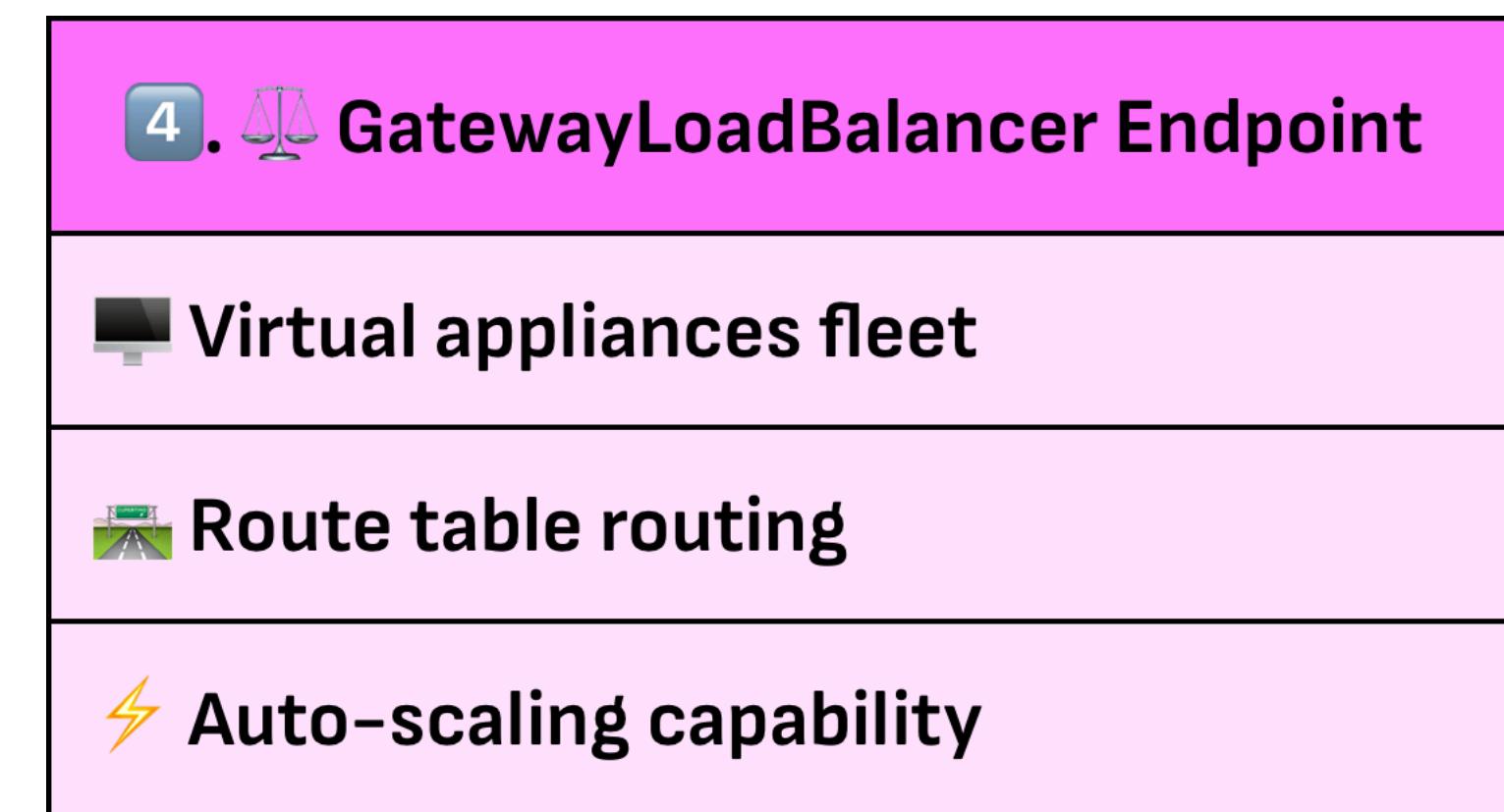
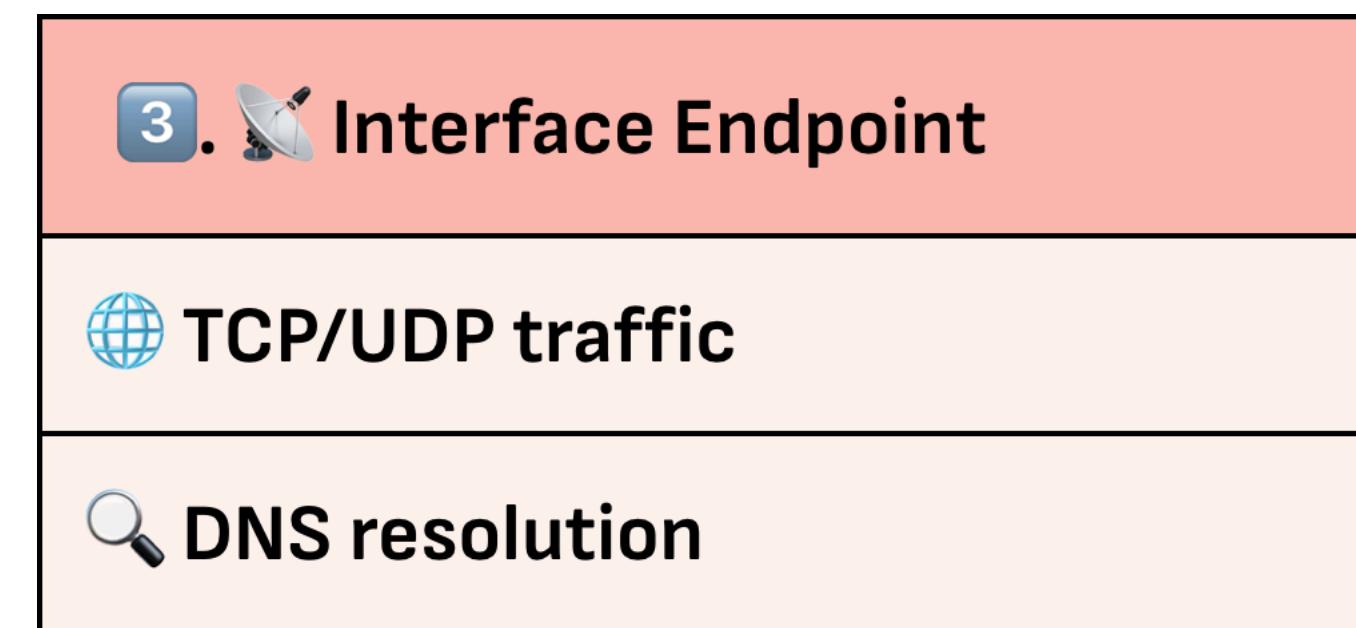
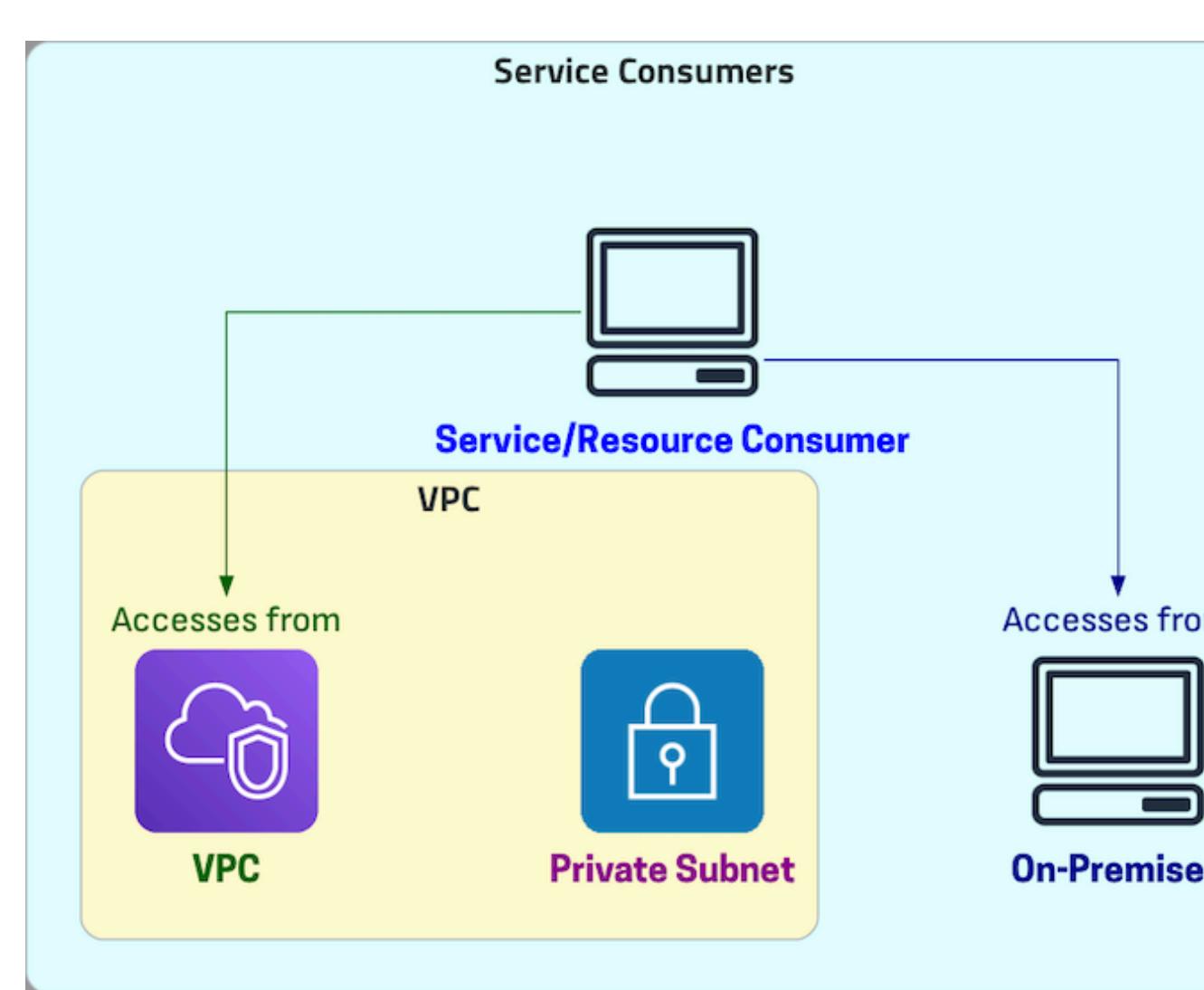
AWS PrivateLink Concepts



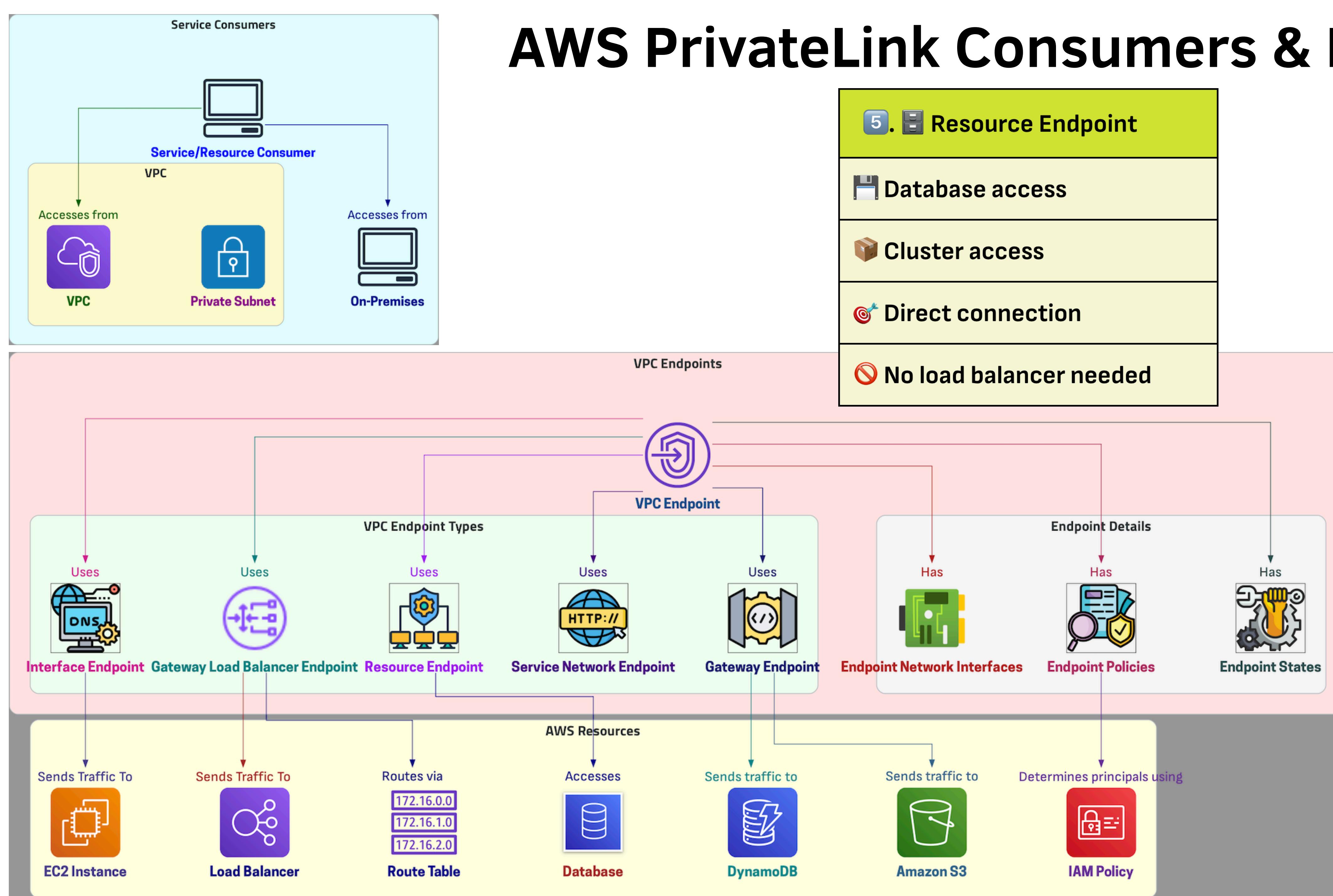
AWS PrivateLink Consumers & Endpoints



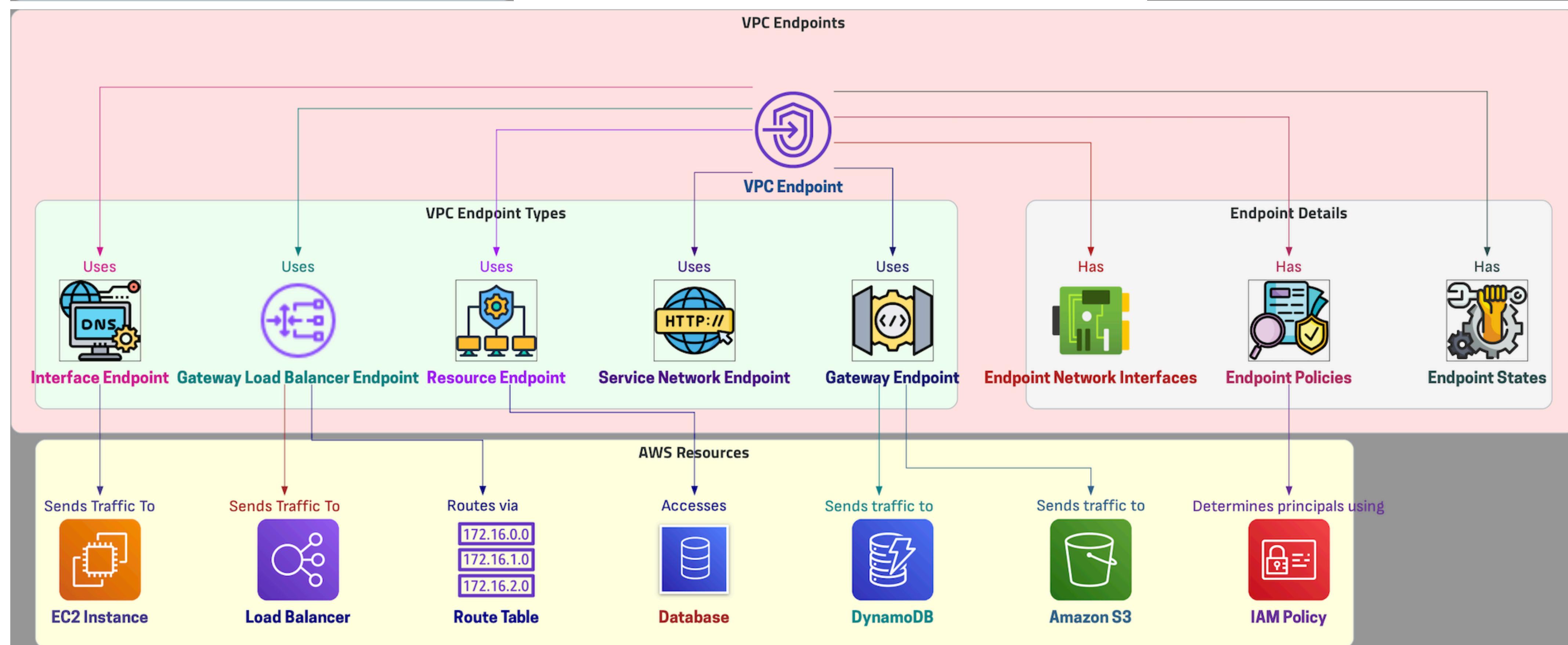
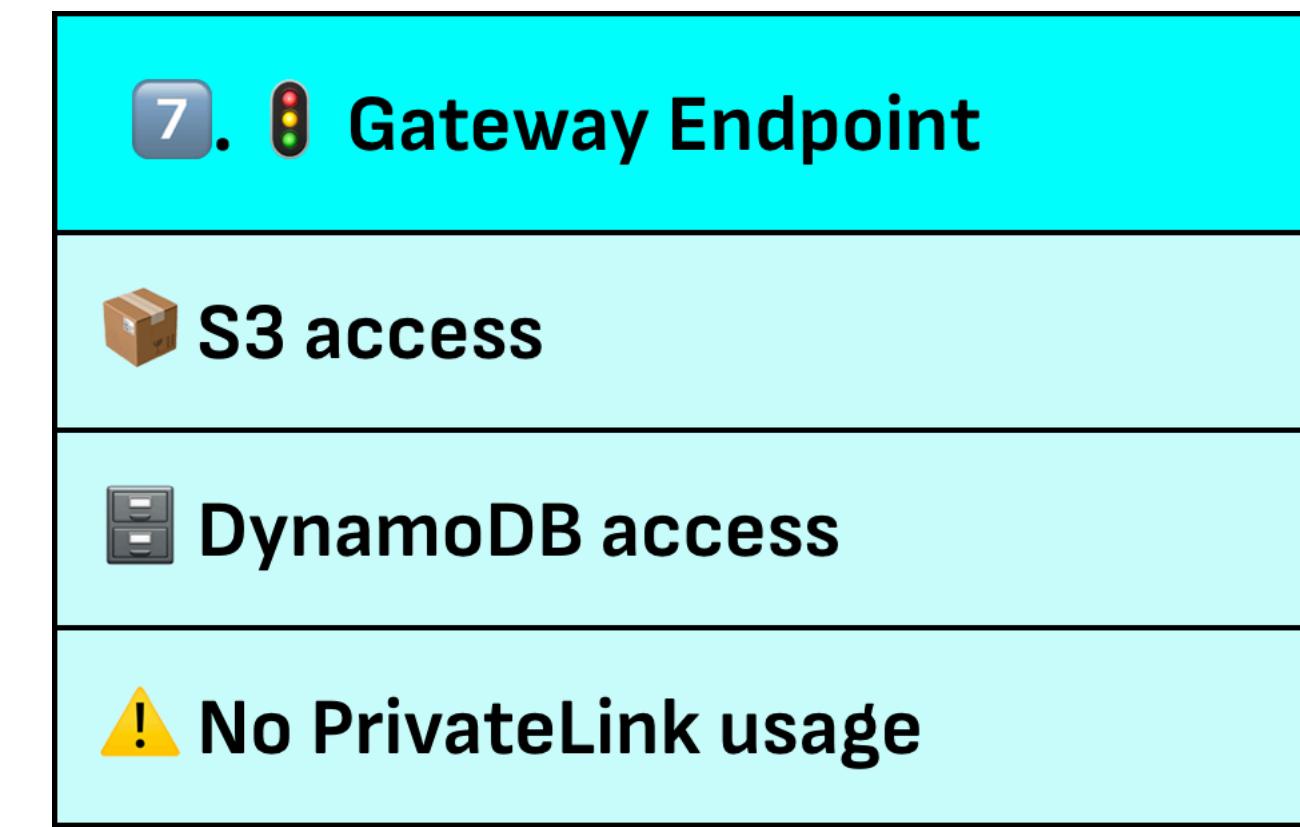
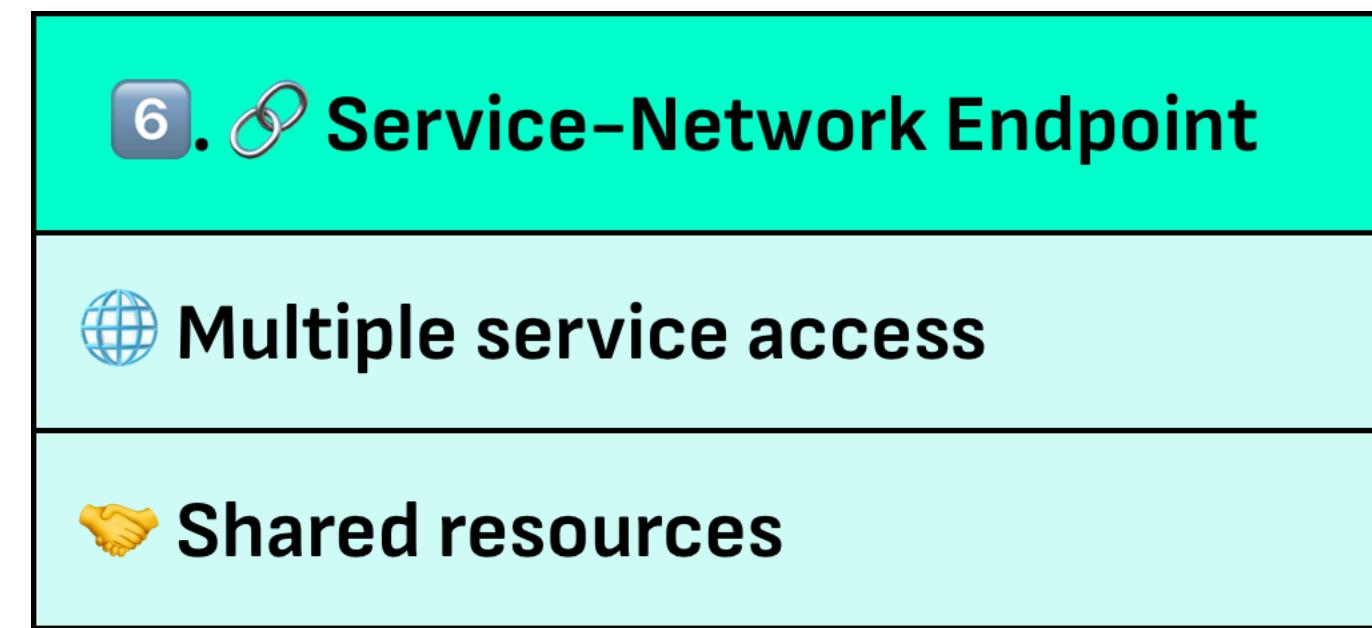
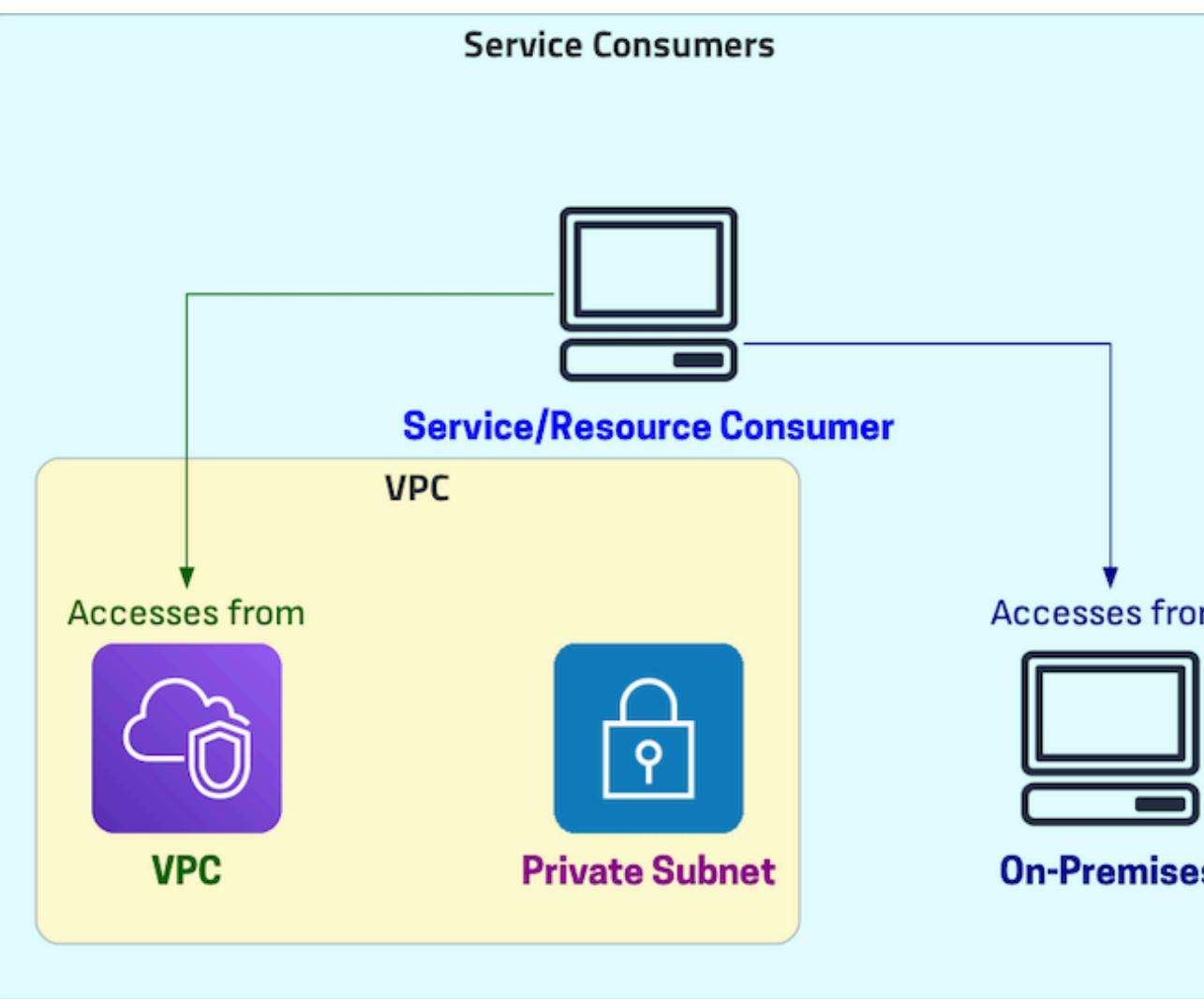
AWS PrivateLink Consumers & Endpoints



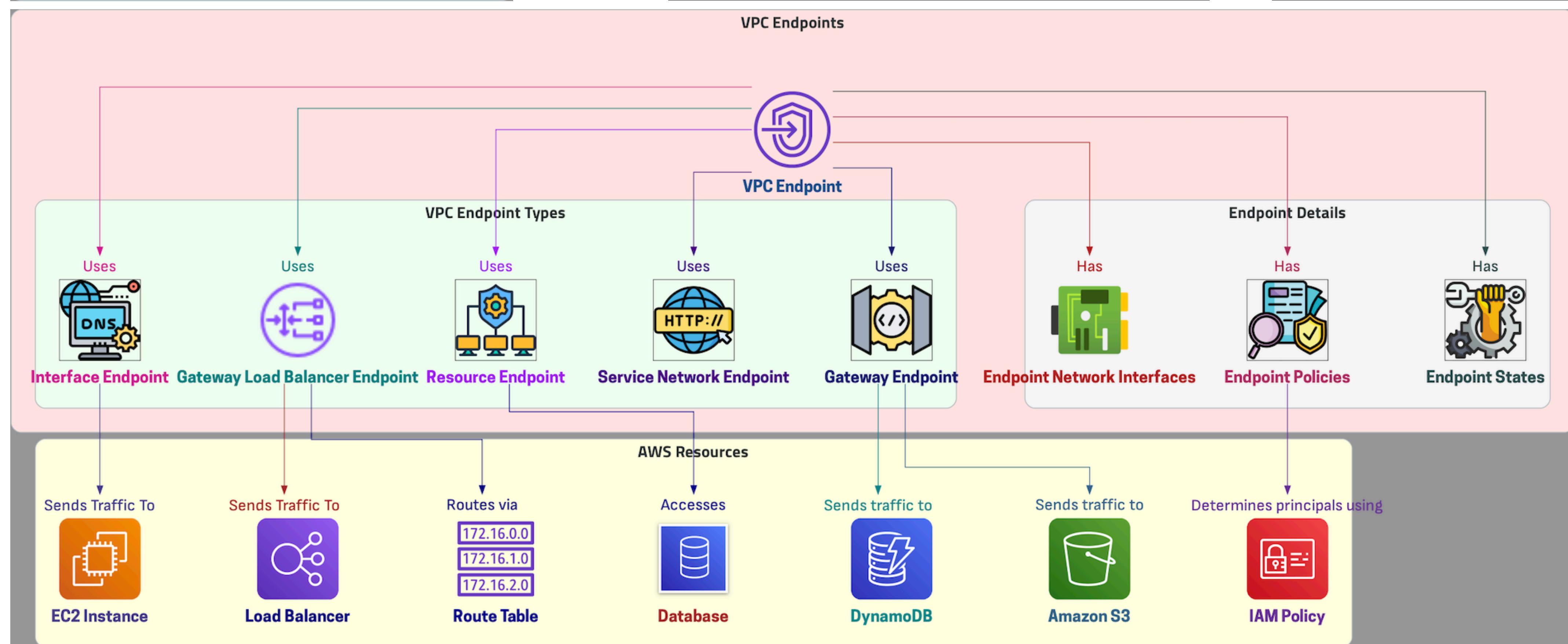
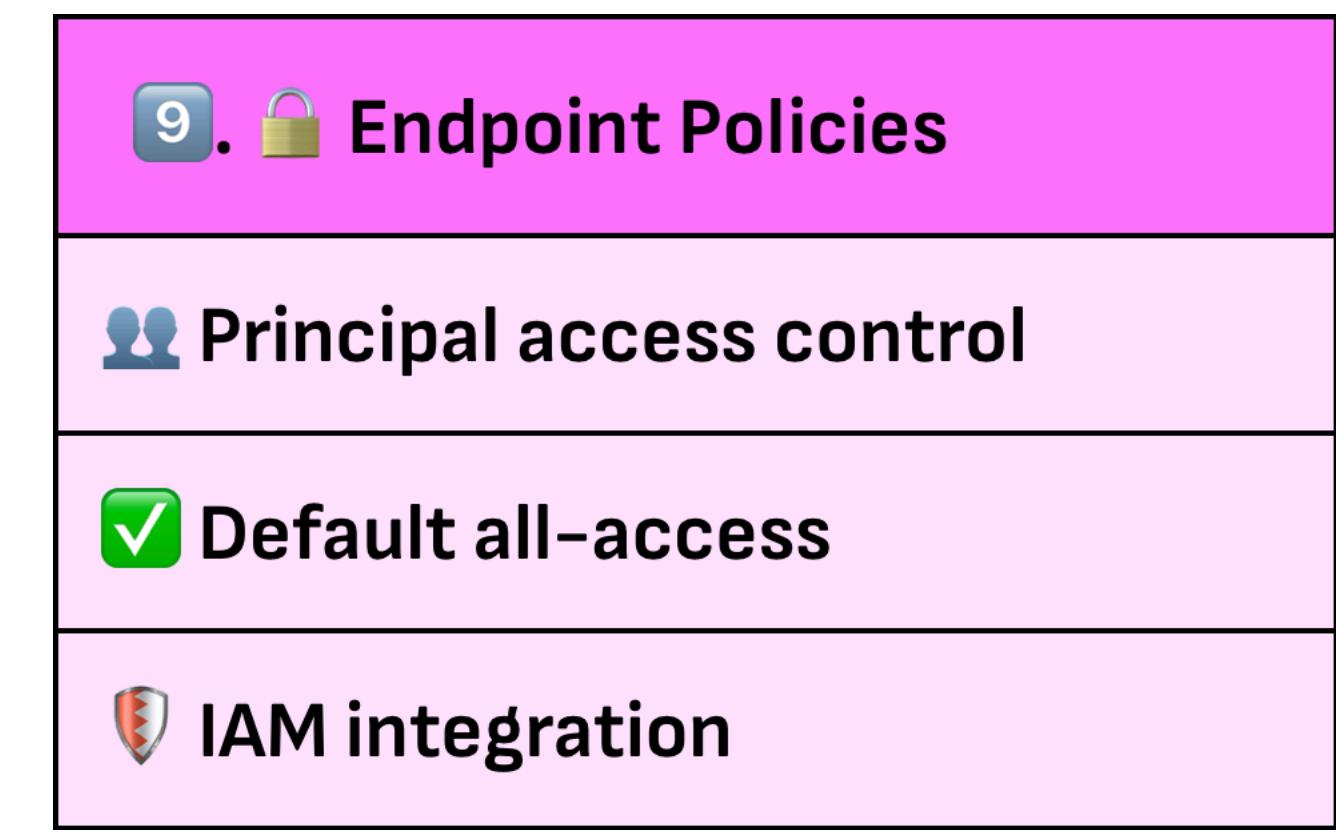
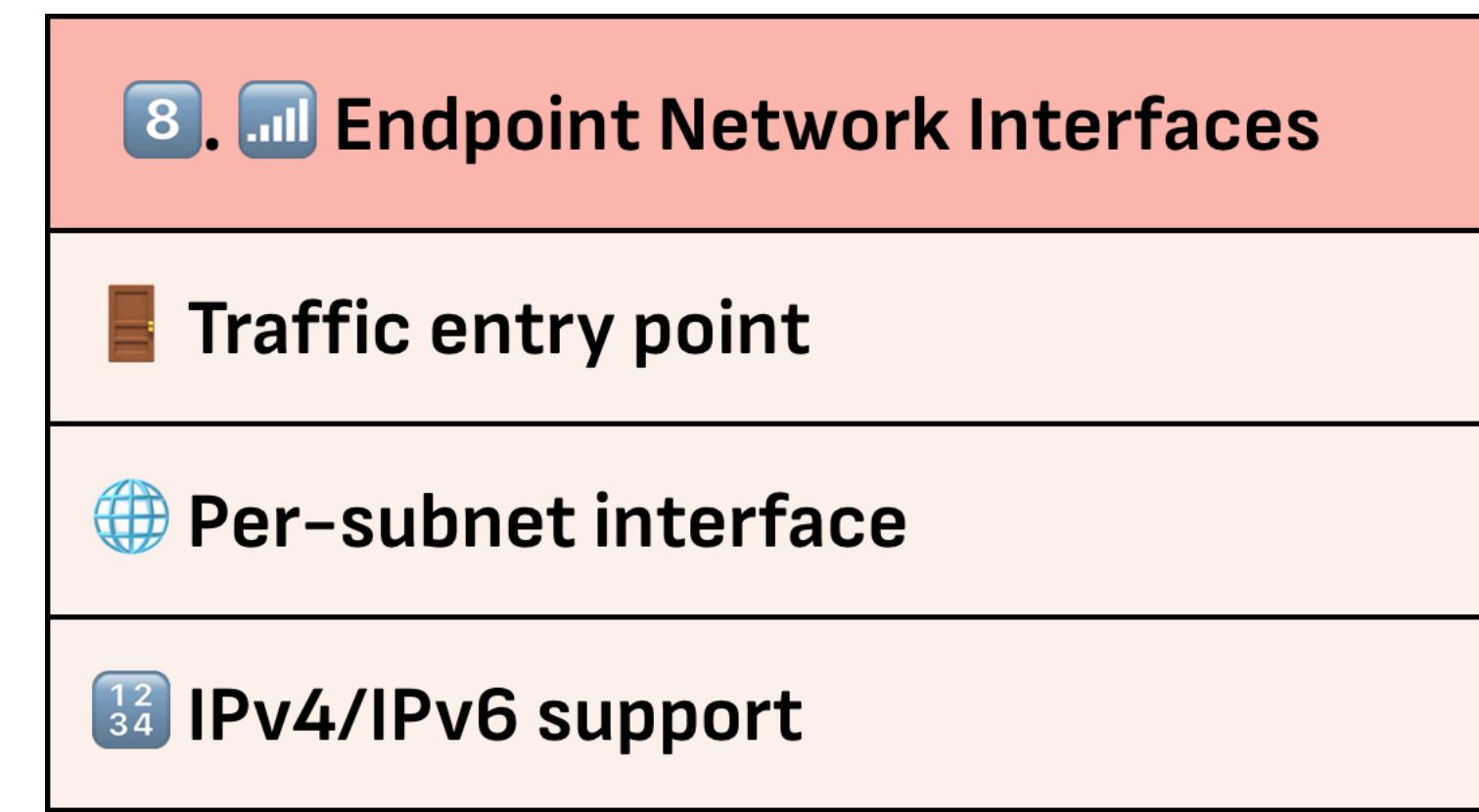
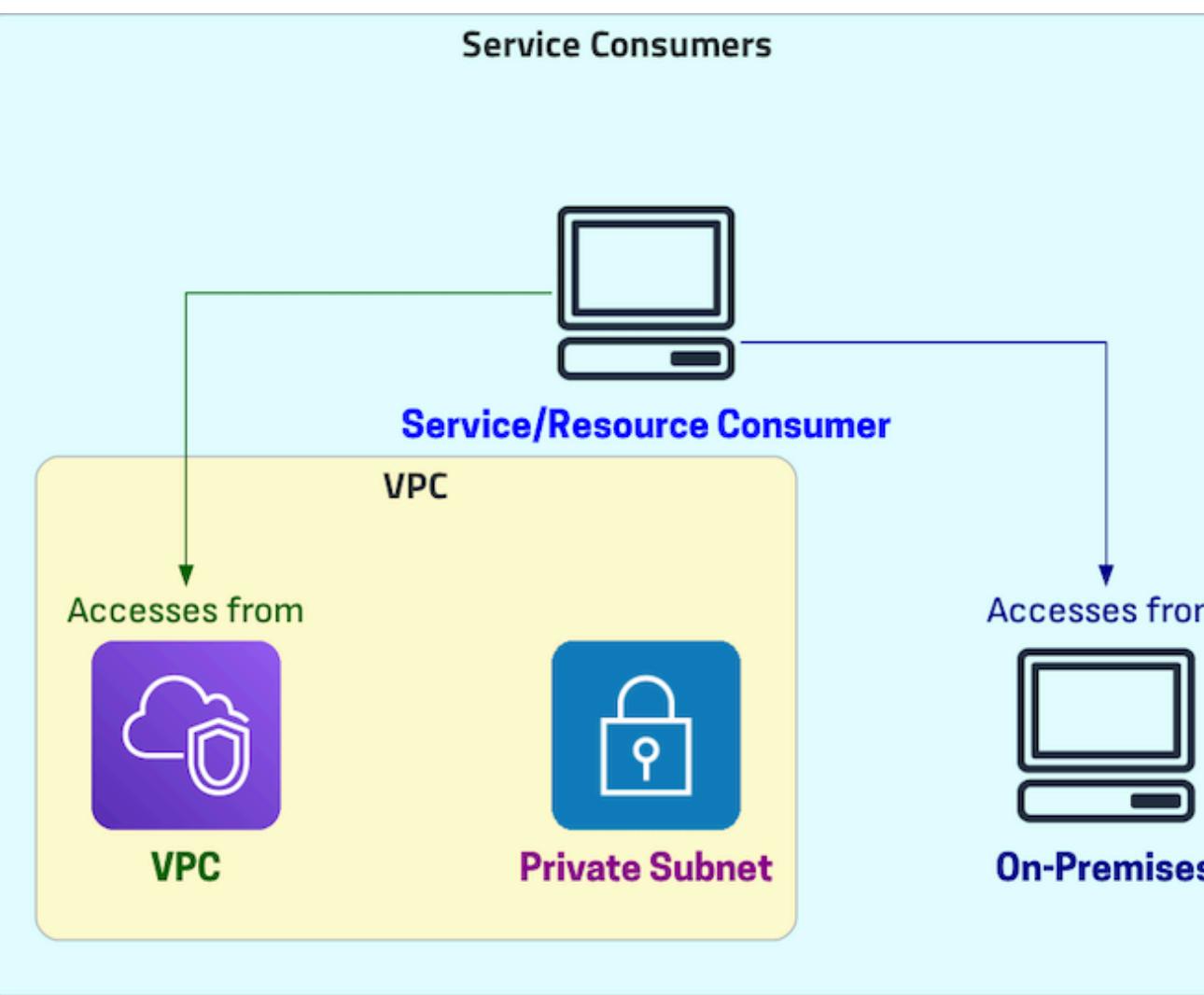
AWS PrivateLink Consumers & Endpoints



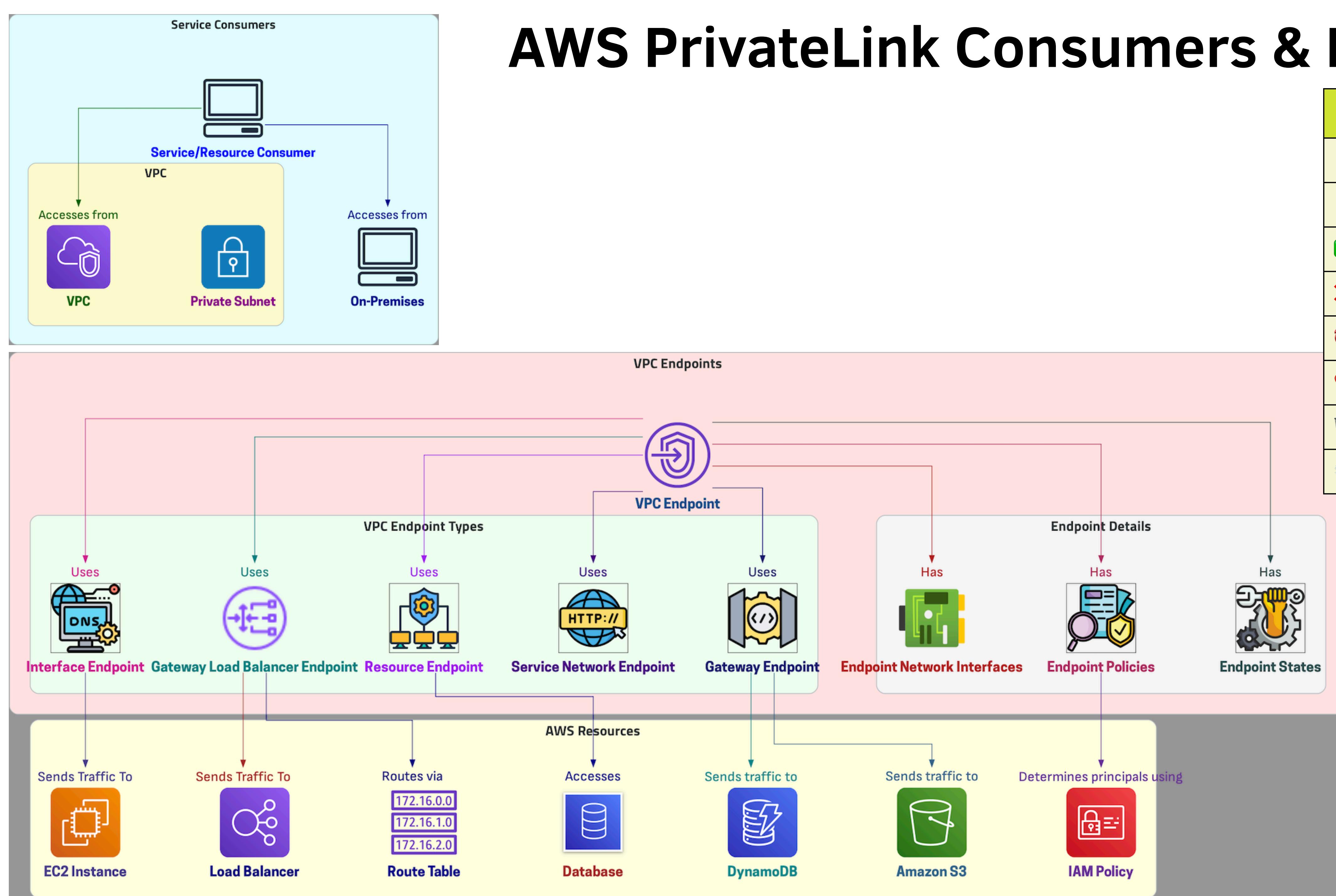
AWS PrivateLink Consumers & Endpoints



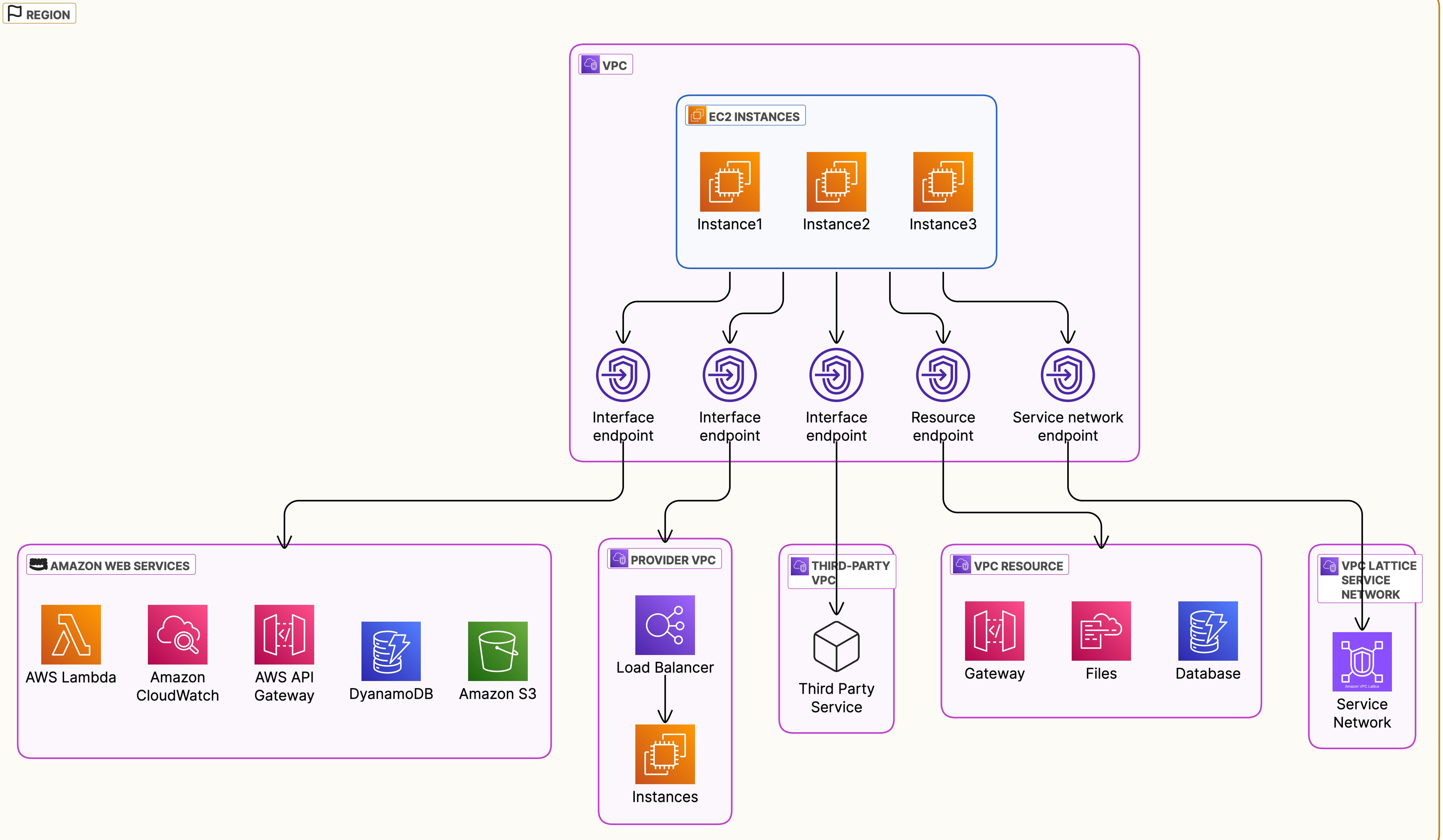
AWS PrivateLink Consumers & Endpoints



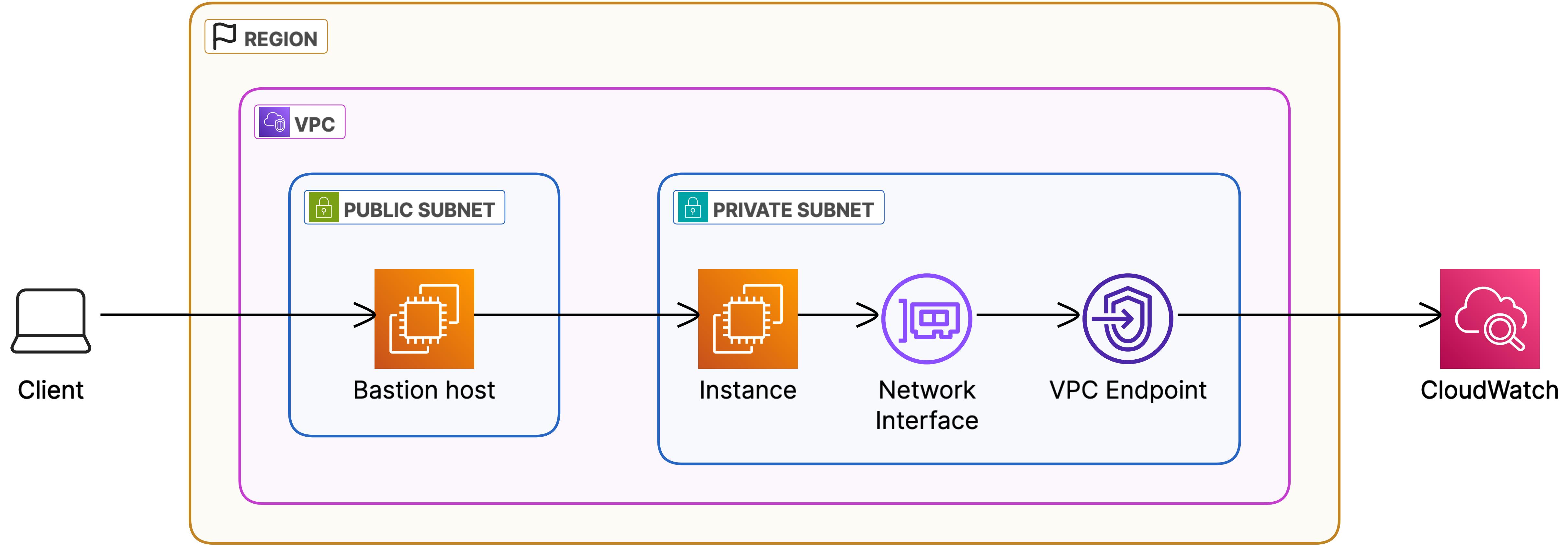
AWS PrivateLink Consumers & Endpoints



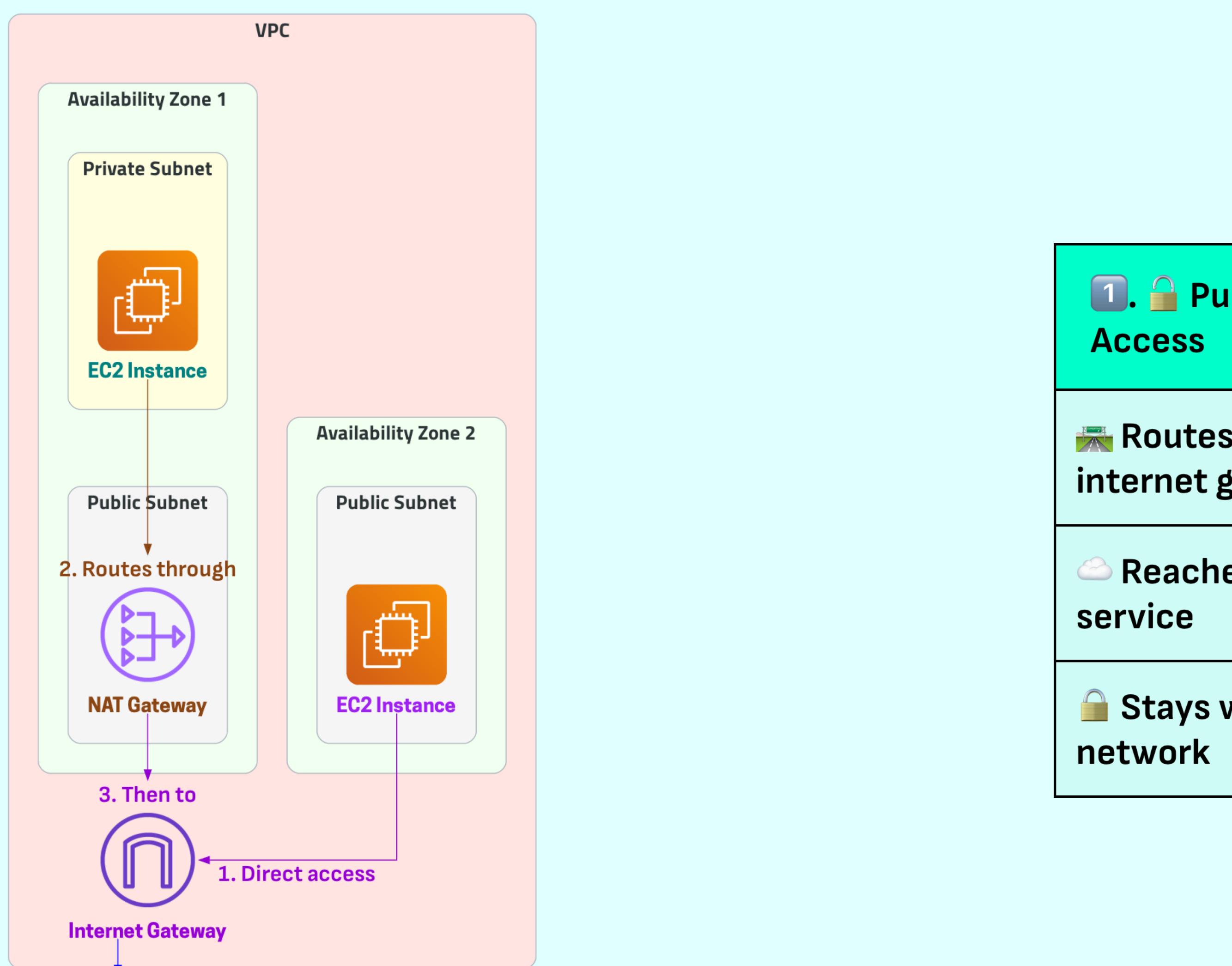
Summary



Get started with AWS PrivateLink



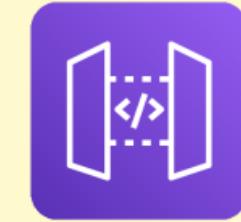
- 1 . Private CloudWatch Access: EC2 instance in private subnet, Sends requests to CloudWatch, Uses AWS PrivateLink
- 2 . Bastion Host Connection: Located in public subnet, Initial connection point
- 3 . Key Pair Requirements: Shared key pair usage, Same key for both hosts
- 4 . SSH Key Forwarding: Key on local computer, Forward authentication
- 5 . Instance Connection: Connect via bastion, No .pem file needed
- 6 . VPC Endpoint Setup: Traffic resolution, Network interface routing, CloudWatch connectivity

**AWS Services****4. Access services**

DynamoDB



CloudWatch



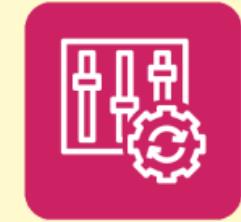
API Gateway



Lambda

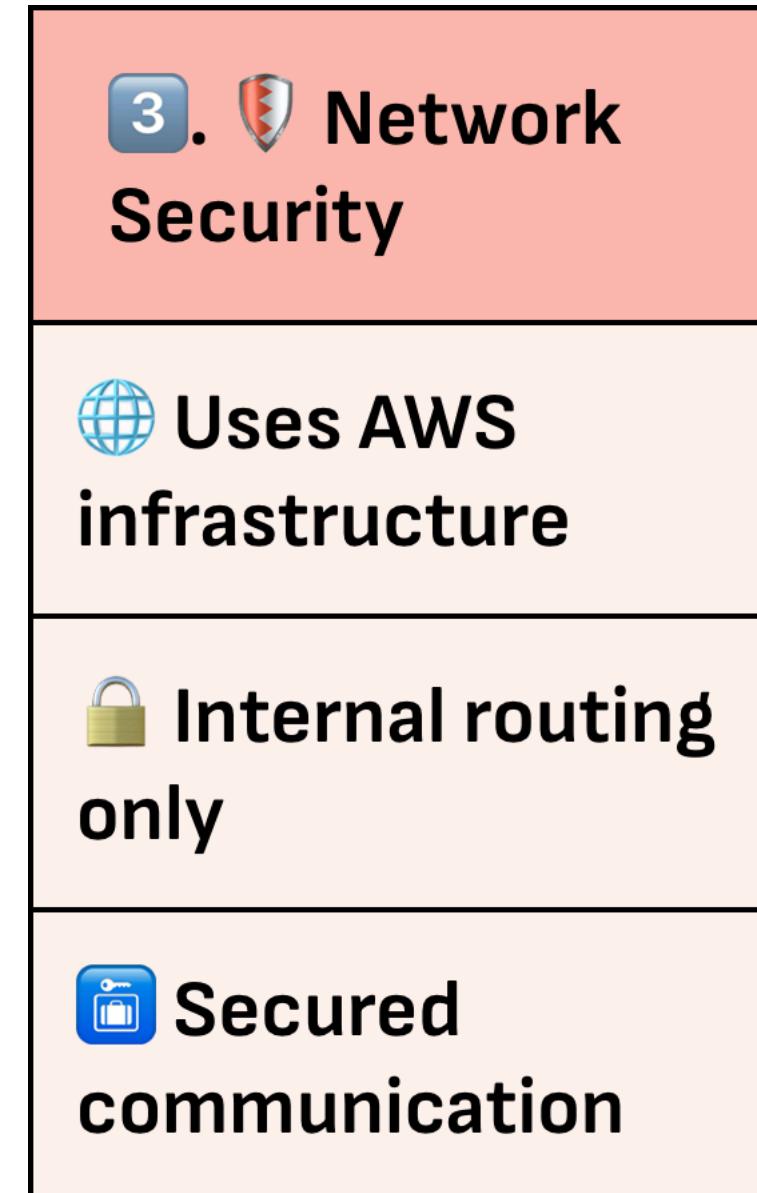
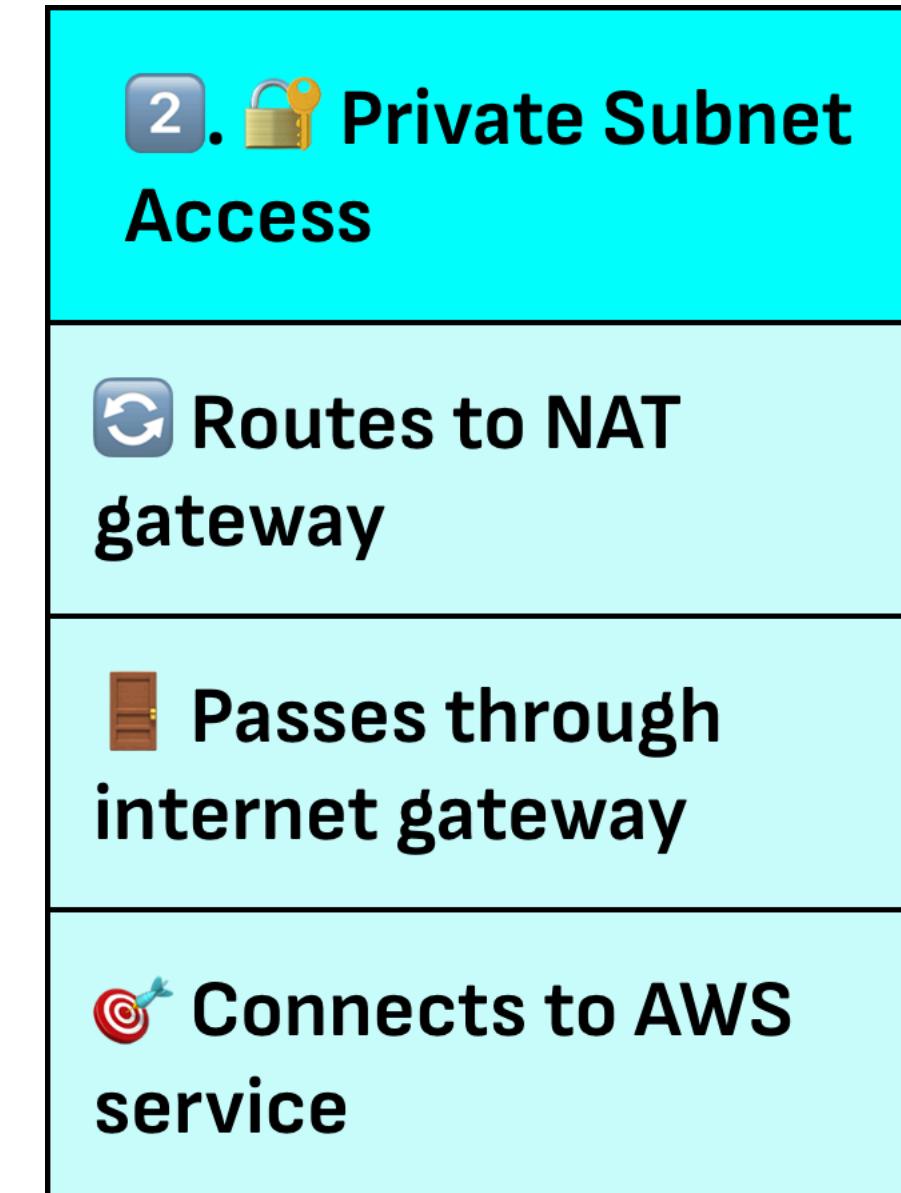
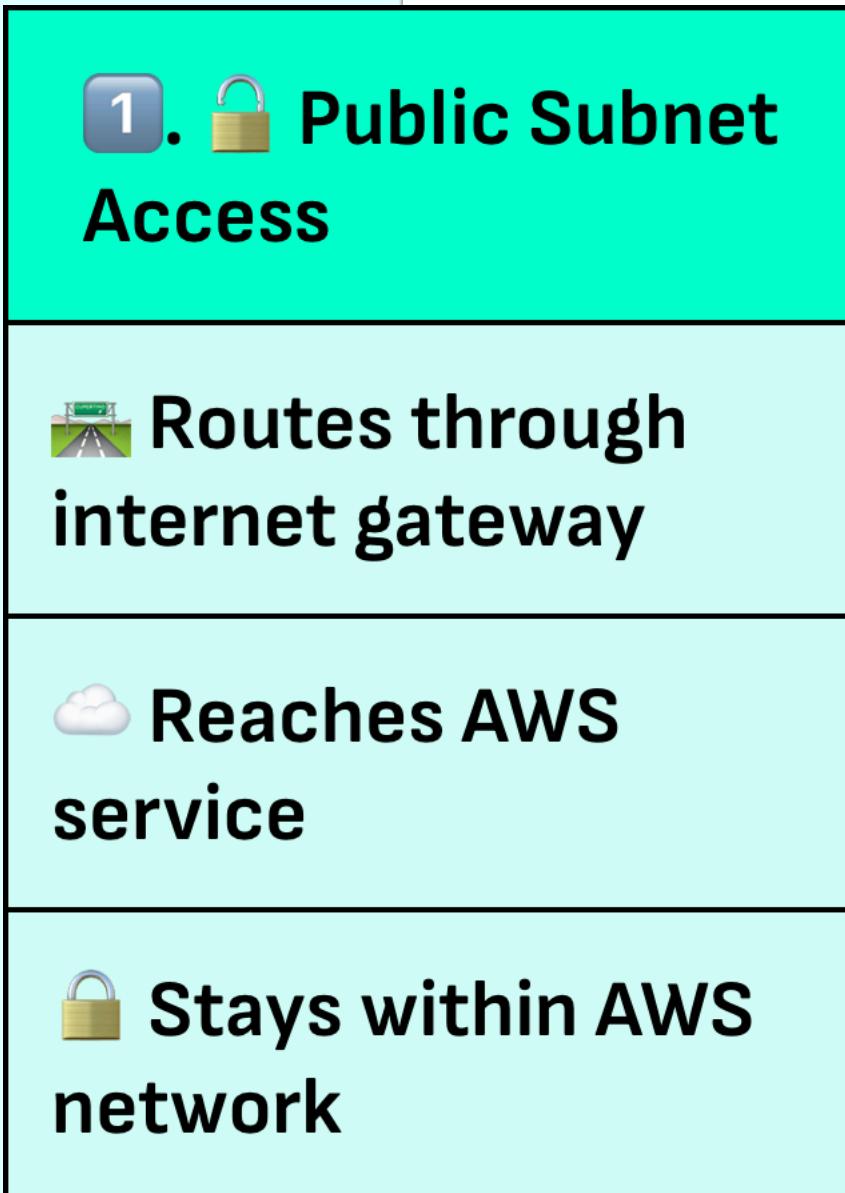


S3

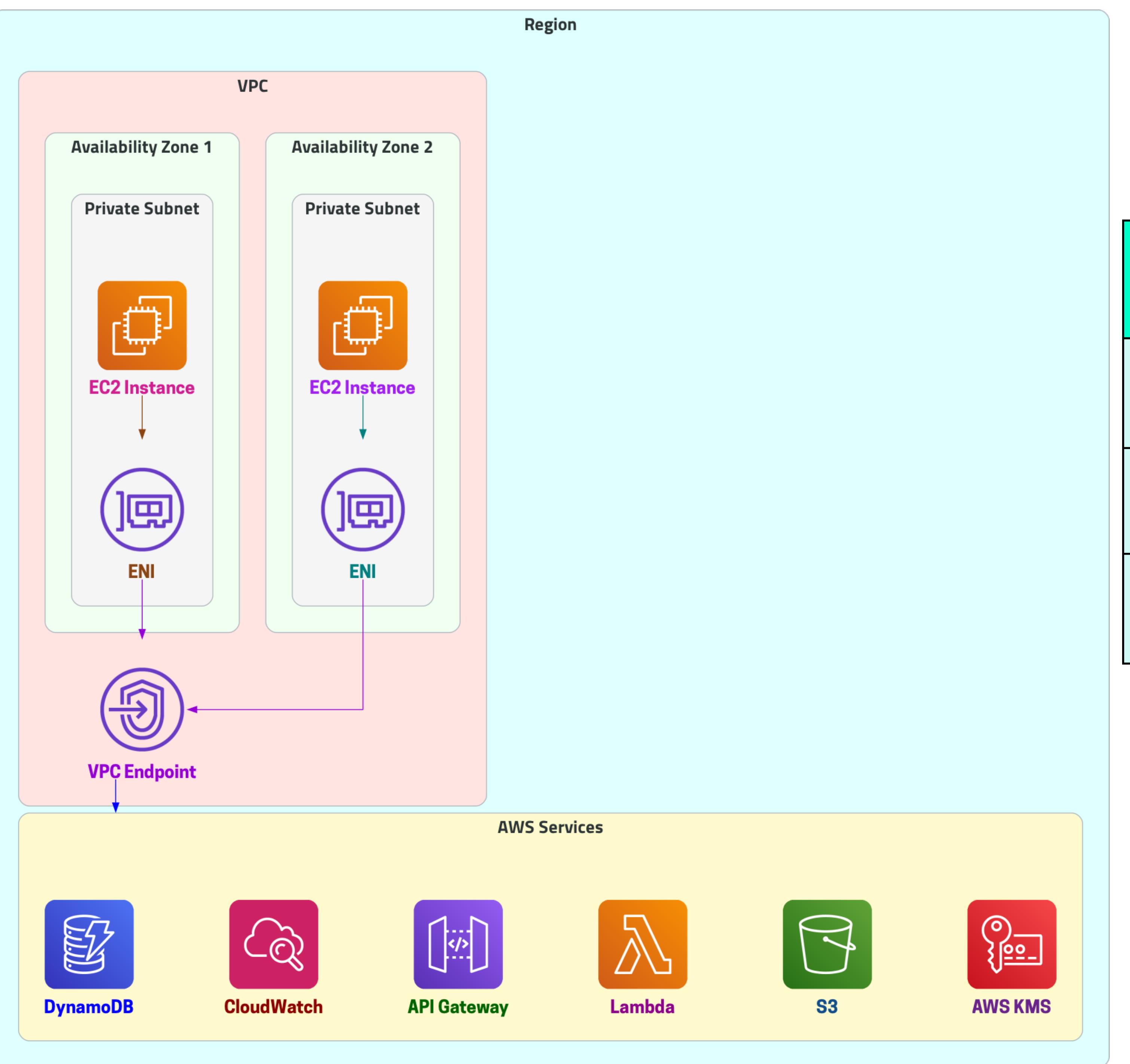


AWS Config

Access through public service endpoints



Connect through AWS PrivateLink



1. 🌐 Interface VPC Endpoint Creation

- Establishes VPC connections
- Uses network interfaces
- Connects to AWS services

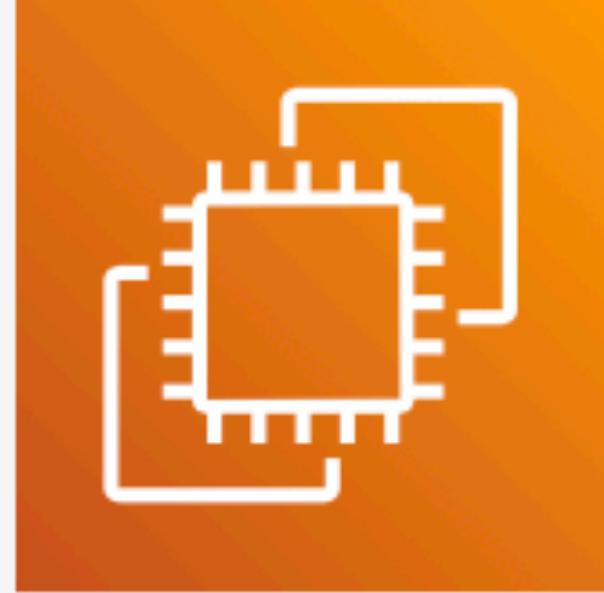
2. 🚗 Traffic Flow

- DNS resolution
- Private IP addressing
- Network interface routing

3. 🔒 Secure Service Access

- Private connectivity
- Protected communication
- Direct service access

AWS services that integrate with AWS PrivateLink - 1



Amazon EC2



Amazon S3



Amazon RDS



AWS Lambda



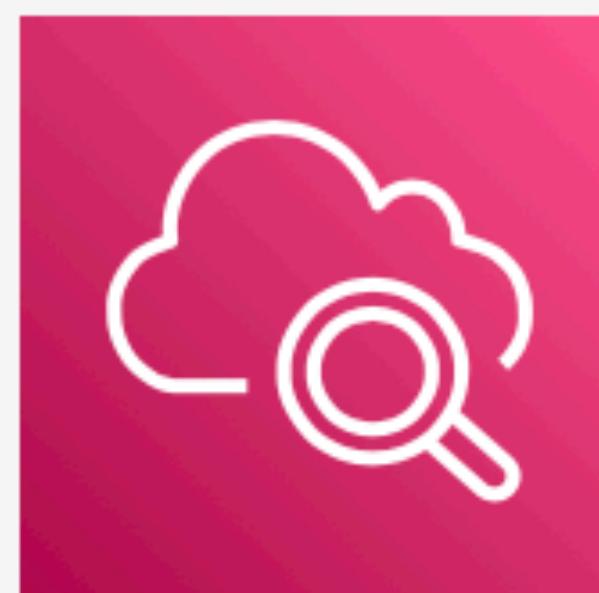
Amazon
DynamoDB



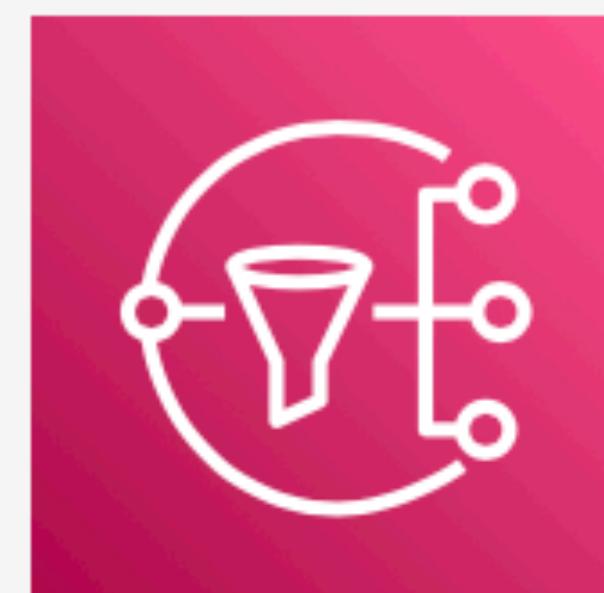
AWS IAM



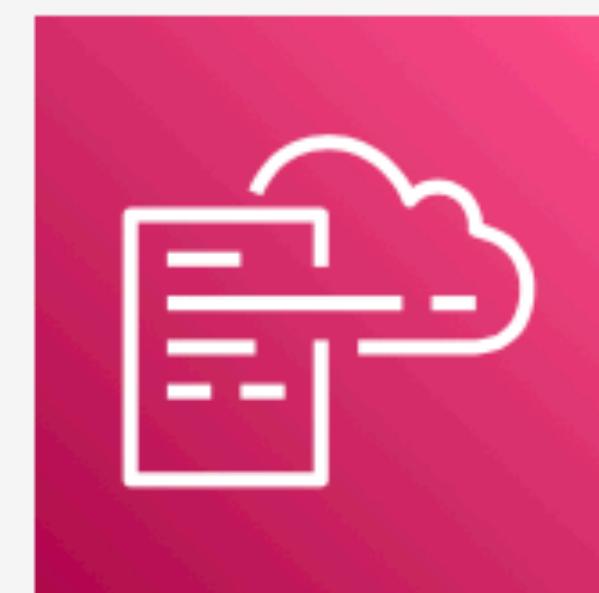
Amazon VPC



Amazon
CloudWatch



Amazon SNS



AWS
CloudFormation

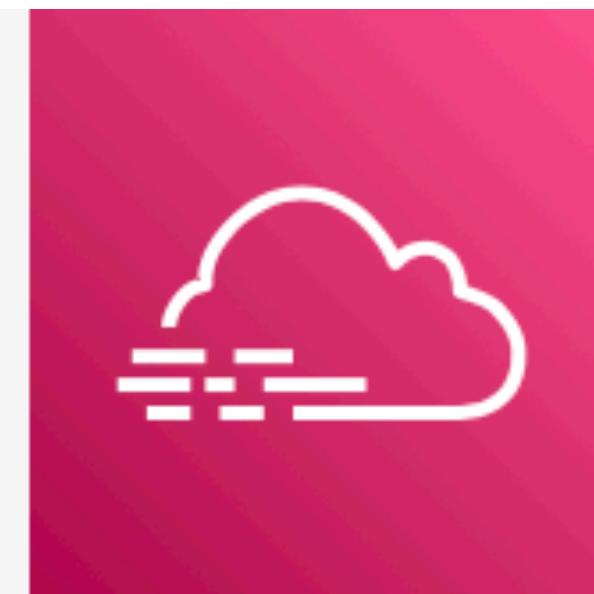
AWS services that integrate with AWS PrivateLink - 2



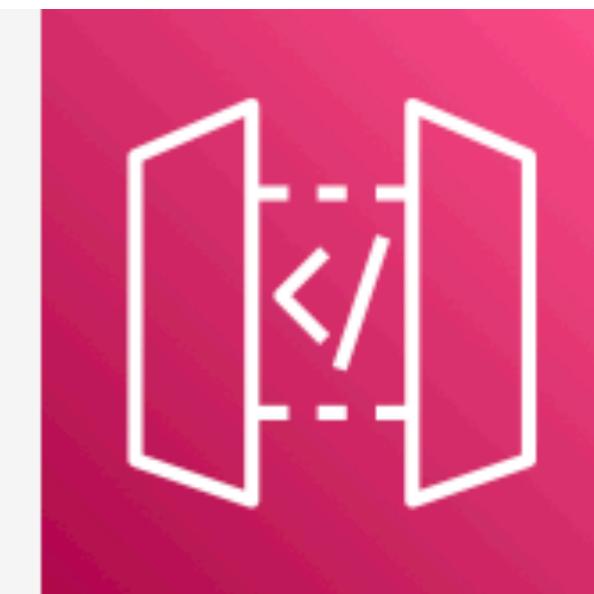
Amazon SQS



AWS ECS/EKS



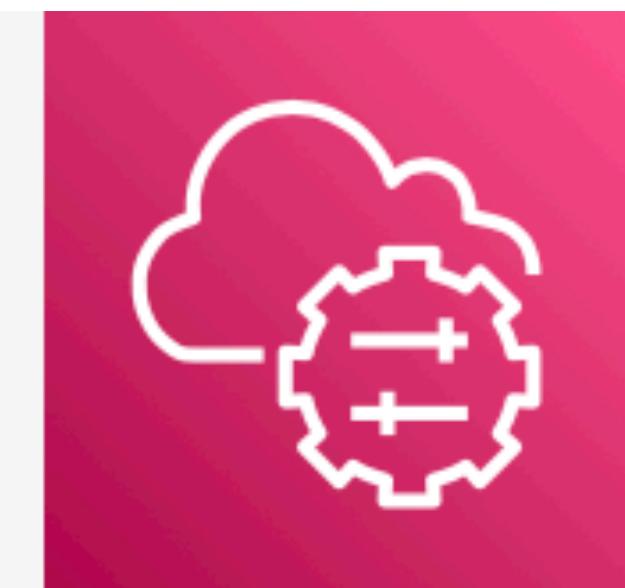
AWS
CloudTrail



Amazon API
Gateway



AWS Secrets
Manager



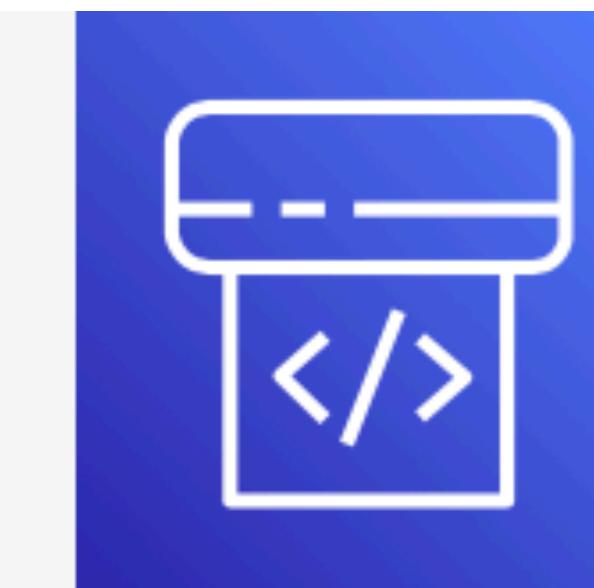
AWS Systems
Manager



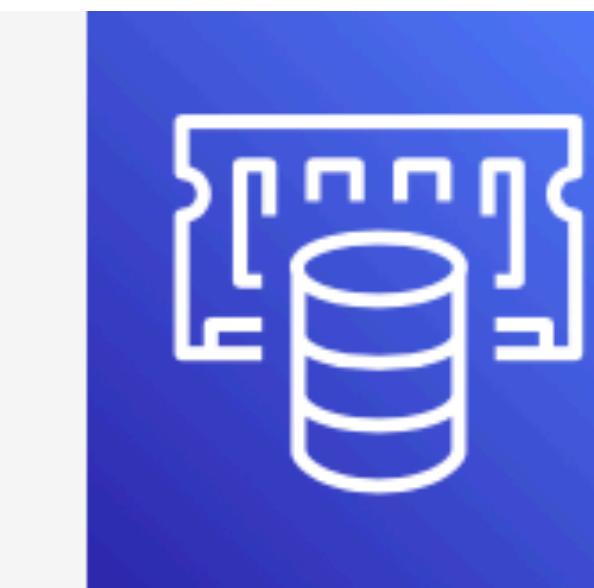
Elastic Load
Balancing



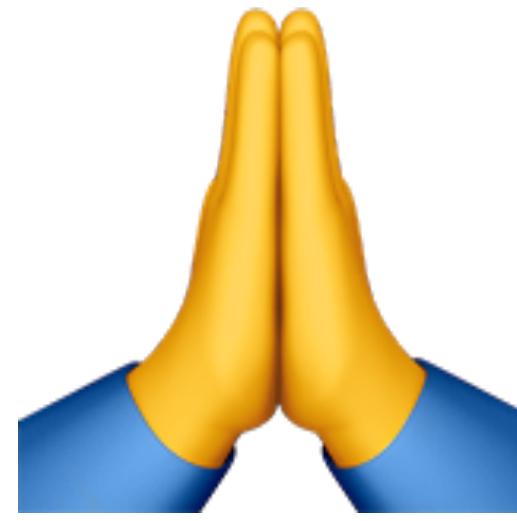
Amazon
EventBridge



AWS
CodePipeline



Amazon
ElastiCache



**Thanks
for
watching**