Navigating the AWS Landscape

This presentation will explore four fundamental AWS services: Amazon S3, EC2, VPC, and Lambda. We'll discuss their capabilities, integration, and best practices.

by delvex support

Introduction to AWS Services

Scalability and Flexibility

AWS enables businesses to scale their resources on demand, adapting to changing needs.

Cost-Effectiveness

Pay-as-you-go pricing models provide efficient resource utilization and cost optimization.

Amazon S3: Object Storage and Data Management

1 **Secure and Durable**

S3 offers high availability and data redundancy for reliable storage.

2 **Scalable and Cost-Effective**

Store and retrieve massive amounts of data at low cost.

3 **Data Management Features**

S3 provides tools for lifecycle management, versioning, and access control.

Amazon EC2: Virtual Computing Infrastructure

Virtual Machines

EC2 provides virtual servers for running applications and workloads.

Instance Types

Choose from a variety of instance types optimized for different use cases.

Elasticity and Scalability

Easily scale EC2 instances up or down based on demand.

Amazon VPC: Virtual Private Cloud Networking

Private Network

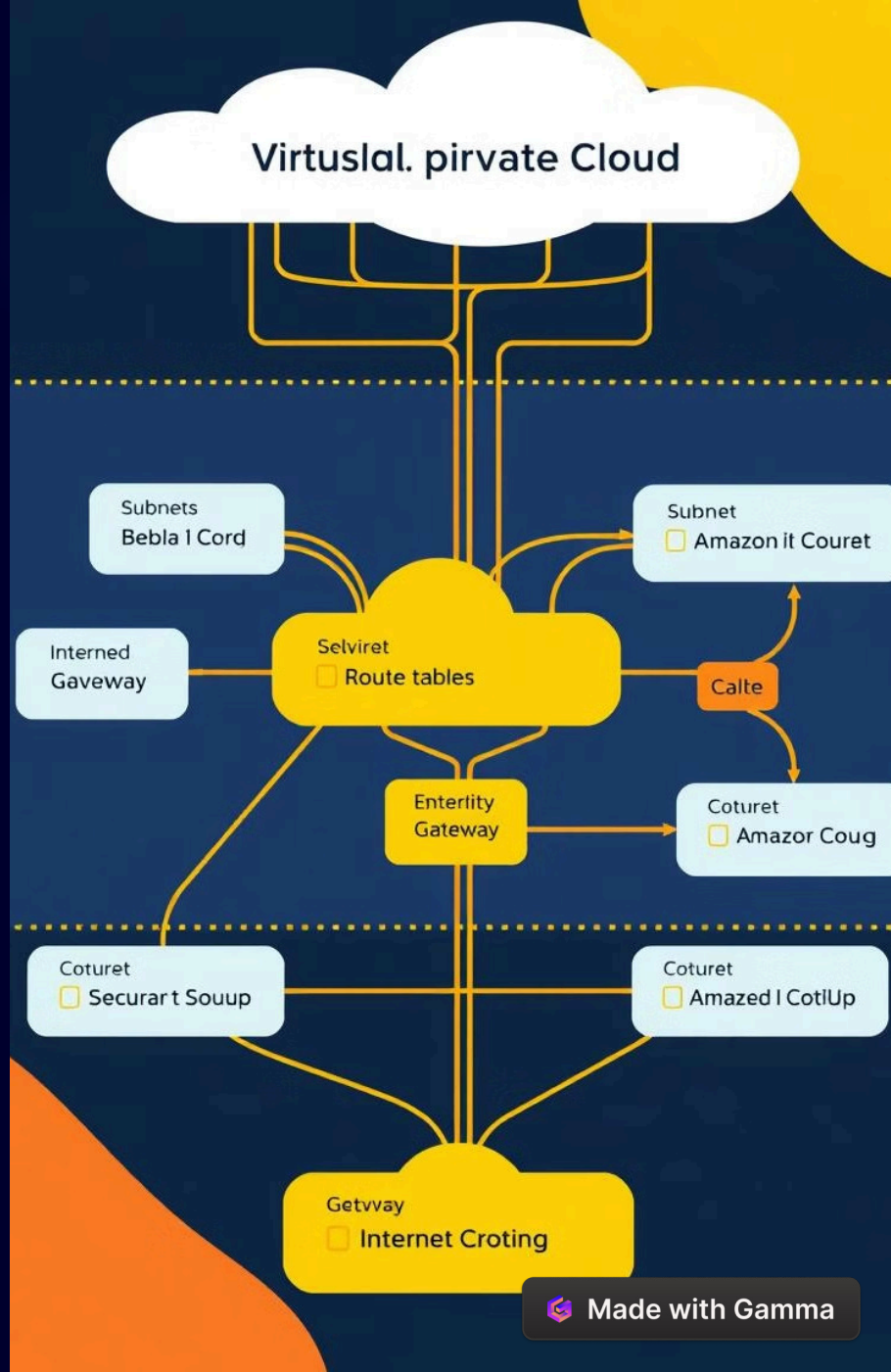
VPC isolates your resources within a dedicated virtual network.

Security Controls

Implement firewalls, security groups, and access control lists for enhanced security.

Connectivity

Connect your VPC to the internet, on-premises networks, and other AWS services.



AWS Lambda: Serverless Computing

1

Event-Driven Execution

Lambda functions are triggered by events, such as API calls or data changes.

2

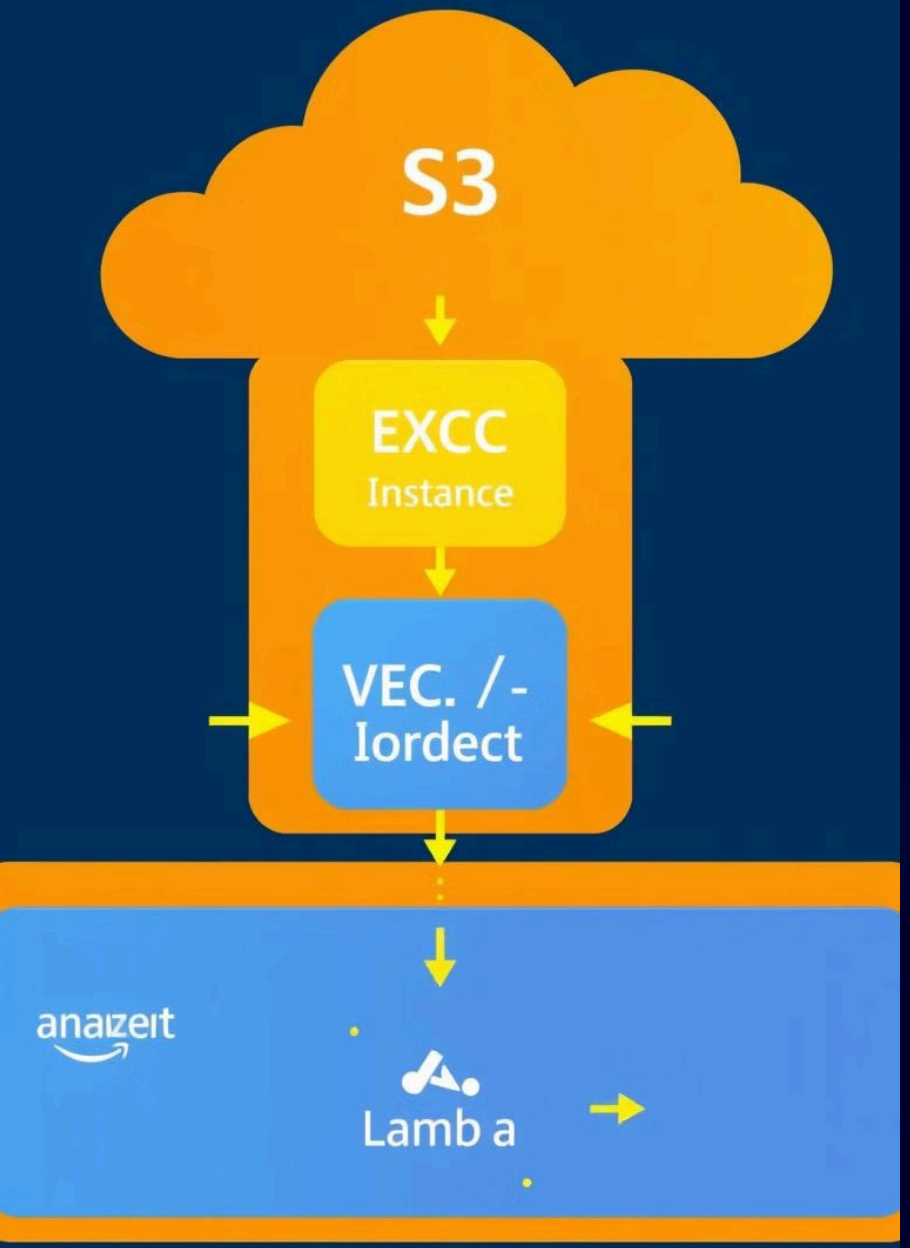
Auto-Scaling

Lambda automatically scales resources to handle fluctuating workloads.

3

Pay-Per-Execution

You only pay for the compute time consumed by your Lambda functions.



Integrating AWS Services

1

Data Storage and Retrieval

EC2 instances can access data stored in S3 buckets.

2

Secure Network Access

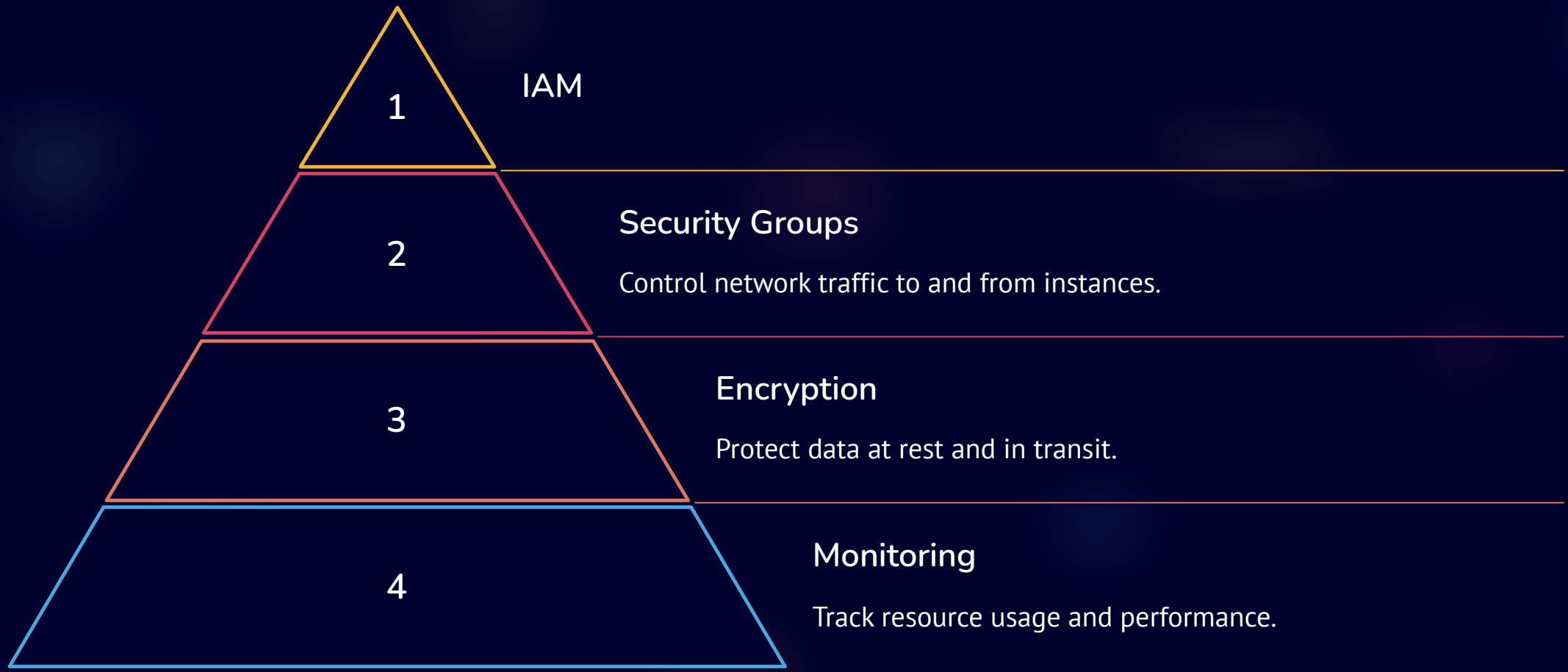
VPC provides a secure network environment for EC2 instances and Lambda functions.

3

Event-Driven Processing

Lambda functions can be triggered by events from S3, such as file uploads or modifications.

Securing and Optimizing AWS Infrastructure



Conclusion and Key Takeaways

1. Scalable and Flexible
2. Cost-Effective
3. Secure and Reliable
4. Integrated Ecosystem