Network Topology Overview for Cloud Solutions

Introduction

This document provides an overview of the high-level network topology employed for cloud-based solutions, highlighting core components and data flow.

Topology Diagram

Key Components

- **Internet**: Entry point for all external traffic.
- **Firewall**: Enforces security policies and access control.
- **Load Balancer**: Distributes incoming requests among web servers.
- **Web Servers**: Serve static content and route requests.
- **Application Servers**: Handle business logic and processing.
- **Database Systems**: Secure storage for application data.

Sample Traffic Flow

1. User initiates a request from the internet.
2. Request passes through the firewall for security checks.
3. Load balancer distributes the request to an available web server.
4. Web server processes the request and forwards to the application server if needed.
5. Application server communicates with the database as required.
6. Response is sent back along the same path to the user.

Summary Table

Component	Purpose
Firewall	Security enforcement, access control, monitoring
Load Balancer	Distribute traffic to multiple backend servers
Web Servers	Serve static content, reverse proxy to app servers
App Servers	Business logic, API endpoints
Database	Persistent storage, data management