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Network components form the backbone of cloud infrastructure, enabling connectivity, scalability, and functionality in cloud services.

| NETWORKING CHEAT SHEET  |  |  |  |  |
|--|--|--|--|--|
| Element  |  AWS                      |  Azure                    |  Google Cloud          |  Alibaba Cloud            |
| Virtual Private Cloud  |  Virtual Private Cloud    |  Virtual Network          |  Virtual Private Cloud  |  Virtual Private Cloud    |
| Subnetwork   |  Subnet                   |  Subnet                   |  Subnetwork             |  Vswitch                  |
| Load Balancer  |  Elastic Load Balancer    |  Load Balancer            |  Cloud Load Balancing   |  Server Load Balancer     |
| Firewall   |  Web Application Firewall |  Web Application Firewall |  Cloud Armor            |  Web Application Firewall |
| Content Delivery Network   |  Amazon CloudFront        |  Content Delivery Network |  Cloud CDN              |  Content Delivery Network |
| Dedicated Connectivity   |  Direct Connect           |  ExpressRoute             |  Cloud Interconnect     |  Express Connect          |
| Virtual Private Network  |  VPN Connection         |  VPN Gateway            |  Cloud VPN            |  VPN Gateway            |
| DDoS Protection  |  Shield                 |  DDoS Protection        |  Cloud Armor          |  Anti-DDoS              |
| Domain Name System   |  Route 53               |  DNS                    |  Cloud DNS            |  DNS                    |
| Network Monitoring   |  CloudWatch             |  Azure Monitor          |  Cloud Monitoring     |  Log Service            |
| Security Groups  |  Security Groups        |  Security Groups        |  Firewall Rules       |  Security Groups        |
| Route Tables   |  Route Tables           |  Route Tables           |  Routes               |  Route Table            |
| Network Peering  |  VPC Peering            |  VNet Peering           |  VPC Network Peering  |  VPC Peering            |
| Content Distribution   |  Global Accelerator     |  Front Door             |  Global Load Balancer |  Global Accelerator     |

These components include routers, load balancers, and firewalls, which ensure data flows efficiently and securely between servers and clients.

Additionally, Content Delivery Networks (CDNs) optimize content delivery by caching data at edge locations, reducing latency and improving user experience.

In essence, these network elements work together to create a robust and responsive cloud ecosystem that underpins modern digital services and applications.

This cheat sheet offers a concise yet comprehensive comparison of key network elements across the four major cloud providers.

Over to you: How did you tackle the complexity of configuring and managing these network components?