19.0.1.0/24

Availability Zone 1

19.0.4.0/24

DMZ(Demilitarized 19.0.7.0/24

Intrusion
Detection/Prevention
Subnet: 19.0.10.0/24

VPN Gateway 19.0.13.0/24

Back Up And Recovery Subnet:

Logging and Monitoring Subnet: 19.0.19.0/24

Security Group Name: Management Subnet SG Inbound Rules: Allow SSH (port 22) access from specific IP ranges of SOC team members for management purposes. Outbound Rules: Allow necessary outbound traffic for management tasks (e.g., DNS, NTP).

Internal Network Subnets

Security Group Name: InternalSG

Inbound Rules: Allow straffic only from specific subnets or security groups within the VPC that need access to internal resources (e.g., web servers, application servers, adabases).

Outbound Rules: Allow necessary outbound traffic for internal communication (e.g., database queries, API calls).

3. DMZ (Demilitarized Zone) Subnet: Sourie (periminate de projection) - Security Group Name: DMZSO bound Rules: Allow only essential ports for public-facing services (e.g., HTTP, HTTPS, MITP) from external sources (e.g., 0.0.0.00). Outbound Rules: Restrict outbound traffic to minimize exposure and limit communication to necessary destinations (e.g., DNS, NTP).

NACL: Create a custom NACL named *Management*NLCL* and associate it with the management subnet (e.g., 10.0.1.024).

- Define ingress and agrees rules in the Management*NLCL sollow recessary management faultic (e.g., SSH, RDP) from authorized PF ranges and degrees rules in the Management*NLC on allow recessary management traffic (e.g., SSH, RDP) from authorized PF ranges and degree vial other traffic.

- The contraction of the contraction of

NACL: Create a custom NACL named "internal Network subnets:
 NACL: Create a custom NACL named "internal Net". 2nd associate it with each internal network subnet (e.g., web servers, application servers, databases).
 Define ingress and egress rules in the InternalNACL to allow communication between internal resources based on their length of the communication discuss.

NACL: Create a custom NACL named "DMZNACL" and associate it with the DMZ subnet (e.g., 10.0.13.0/24). frine ingress rules in the DMZNACL to allow specific ports for public-facing services (e.g., HTTP, HTTPS) and restrict access to sensitive resources.

Internet Gateway

2. "Route Table Configuration".

- Go to the "Route Tables" section in the VPC Dashboard.

- Select the route table associated with your VPC.

- Add a route to the KVM for internet-board steffic destination. 6.9.0.90, target: your IGW).

A "Security Group Configuration":

aview the security group configuration to sensus that appropriate rules are in place for inbound as

Allow necessary inbound raffle; from the internet to specific resource (a.g., web servers) while
restricting access to sensitive services.

Permit outbound with from internal resources to the internal security or increase.

Review and update the NACL configuration."

Review and update the NACL configuration to allow internet down traffic while maintaining relevon's reason that the NACL rules permit configuration from the subsetts to the internet and allow return reflect for which the configuration of the configuration of

1."Management Subnet":
- Ensure that the management subnet (e.g., 10.8.1.024) is associated with a custom route table named
ManagementRoute Table, and a default route (0.0.0.00) with the target set to the Internet Gateway (IGW).
This allows management resources to secos the internet or updates, patiches, and other necessary tasks.

"Internal Network Subnets":
 Associate each internal network subnet (e.g., web servers, application servers, databases) with a custom route table named "InternalRouteTable."
 In the InternalRouteTable, add routes for internal communication between subnets, pointing to the local VPC

"DMZ (Demilitarized Zone) Subner":
 - Associate the DMZ subnet (e.g., 10.0.1.0.0.4) with a custom route table named "DMZRoutsTable."
 - In the DMZRoutsTable, add routes for public-facing services, pointing to the local VPC CIDR block or specific internal resources, and add a default route to the IGW for outbound internal access.

Availability Zone 2 19.0.2.0/24

19.0.5.0/24

DMZ(Demilitarized Zone) Subnet: 19.0.8.0/24

Back Up And Recovery Subnet:

19.0.17.0/24

Intrusion
Detection/Prevention
Subnet: 19.0.11.0/24

VPN Gateway Subnet: 10.0.14.0/24

Logging and Monitoring Subnet: 19.0.20.0/24

7. Logging and Monitoring Subnet:
- Security Group Name: LoggingSG
- Inbound Rules: Allow traffic only from authorized sources (e.g., Internal management systems, IDSIPS) for log collection and analysis.
- Outbound Rules: Allow necessary outbound traffic orcommunication with log aggregation and SIEM (Security Information and Event Management) systems.

B. Backup and Reconery Subnet:
 NACL: Create a custom NACL named "Backup/MCL" and secrotise it with the backup and recovery subnet (e.g., 10.2.2.0.24).
 "Define ingress and egress rules in the Backup/MCL to allow communication between backup resources and restrict access to habits used to the contract of t

7. Logging and Monitoring Subnet:

NACL: Create a custom NACL named "Logging NACL" and associate it with the logging and mc
10.0250/L" and associate it with the logging and mc
10.0250/L" to allow traffic necessary for log collection
reading unauthorized access.

19.0.3.0/24

Availability Zone 3

nternal Netwo 19.0.6.0/24

DMZ(Demilitarized 19.0.9.0/24

Intrusion ction/Preve Subnet: 19.0.12.0/24

VPN Gateway 19.0.15.0/24

Back Up And Recovery Subnet: 19.0.18.0/24

Logging and Monitoring 19.0.21.0/24

S. VPN Gateway Subnet:
 Security Group Name: VPNSG
 inbound Rules: Allow VPN traffic (e.g., IPsec, SSI, I from authorized IP ranges or dependent of the control of the control

3. DMZ (Demilitarized Zone) Subnet:
 - NACL: Create a custom NACL named "DMZNACL" and associate it with the DMZ subnet (e.g., 10.0, 13.0/24).
 Define ingress rules in the DMZNACL to allow specific ports for public-basing services (e.g., HTTP, HTTPS) and restrict access to sensitive recorduse.

A Intrusion Delection-Prevention Subnet

A Industrial Consider a custom NACL named "DEPANAL" and associate it with the intrusion detection/prevention subnet (e.g., Do 16 02/4).

Define ingress and egistes roles in the IDPANAL to allow path recessary for monithring and analysis white blocking unashformed concess to security applications.

S. VPN Gateway Subnet:
 NACL: Create a custom NACL named "PRNACL" and associate it with the VPN gateway subnet (e.g., 10.0.19.0/24)
 - Define ligress and egress rules in the VPNNACL to allow VPN traffic tom authorized sources while blocking other traffic to maintains security.

"Update NACLs":
 Review and update the NACL configurations to allow necessary inbound and outbound internet straffs whilm eninitaring security.
 Ensure that outbound traffic from the subnets to the internet is permitted, and inbound traffic restricted based only our project's security requirements.

ramic is restricted based on your project is security requirements.

3. "Update Security Groupes"

- Review and update the security group configurations to allow inbound and outbound internet-board staffic based on your project's security podicies.

- Permit necessary inbound fraffic from the internet to specific resources while restricting access to sensitive services.

- Allow outbound traffic from internal resources to the internet as needed.

A-"Test Connectivity":
 A-"Test Connectivity":
 Test internet connectivity from resources within the subnets associated with the IOW to ensure that they can access the internet as expected.
 Validate that security measures, such as NACLs and security group, are effectively controlling internet traffie and maintaining network security.

A. "Intrusion Detection/Prevention Subnet":
 Associate the intrusion detection/prevention subnet (e.g. + 0.0.1.6.0.24) with a custom route table named
 DPRodutFable.
 In the IDPRodutFable, configure routes for communication with management systems, logging servers, and other necessary resources with the VPC.

5. "VPN Gateway Subnet":
 -Associate the VPN gateway subnet (e.g., 16.0.19.0/24) with a custom route table named "VPNRouteTable."
 -Configure routes in the VPNRouteTable for VPN connectivity, pointing to the VPN gateway, and ensure that
 -recessary internal resources are accessible via VPN.

"Backup and Recovery Subnet":

- Associate the backup and recovery subnet (e.g., 10, 22,074) with a custom route table named
Subplication Subpl