

# AWS Security Checklist Report

## AWS Security Checklist - VPC

Item	Description
Create a VPC with multiple subnets	Design your VPC with multiple subnets spread across multiple Availability Zones to ensure high availability and fault tolerance.
Use Security Groups and Network ACLs	Use Security Groups and Network ACLs to define inbound and outbound traffic rules for your VPC resources, ensuring that only necessary traffic is allowed.
Implement Private and Public Subnets	Segregate resources within your VPC into private and public subnets based on their exposure to the internet. Keep critical resources in private subnets with no direct internet access.
Use NAT Gateways for outbound traffic	Use NAT Gateways to allow instances in private subnets to access the internet while still preventing inbound traffic from the internet.
Use VPC Flow Logs	Enable VPC Flow Logs to capture information about the IP traffic going to and from network interfaces in your VPC for monitoring and auditing purposes.
Use VPC endpoints for AWS services	Use VPC endpoints to privately connect your VPC to supported AWS services, ensuring that traffic between your VPC and these services does not traverse the public internet.
Implement proper routing	Configure routing tables for each subnet in your VPC, ensuring that traffic is routed only to intended destinations.
Use VPN or Direct Connect for hybrid environments	If connecting your VPC to on-premises environments, use AWS VPN or Direct Connect for secure and reliable connectivity.
Periodically review Security Groups and Network ACLs	Regularly review and update your Security Groups and Network ACLs to ensure that they continue to meet your security requirements and follow the principle of least privilege.
Encrypt sensitive data	Encrypt sensitive data in transit and at rest when transmitted between your VPC and other networks, or stored within your VPC.
Implement proper IAM policies	Use IAM policies to control access to VPC resources and actions, ensuring that users and applications have only the necessary permissions.