

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AMAZON VPC

Introduction to Amazon VPC

- Overview of cloud networking and Amazon VPC
- Benefits and use cases of Amazon VPC
- Understanding VPC components: subnets, route tables, internet gateways, NAT gateways, etc.

Getting Started with Amazon VPC

- Creating a VPC using AWS Management Console and AWS CLI
- Understanding IPv4 CIDR blocks and subnetting in VPC
- Configuring VPC peering and VPC endpoints

VPC Networking Basics

- Understanding VPC routing and route tables
- Configuring internet access using internet gateways
- Implementing NAT gateways and NAT instances for outbound internet traffic

Advanced Networking in Amazon VPC

- Configuring VPC Endpoint Services (Gateway and Interface Endpoints)
- Implementing VPC Flow Logs for network traffic monitoring
- Using AWS PrivateLink for private connectivity to AWS services

VPC Security

- Implementing security groups and network ACLs (Access Control Lists)
- Understanding VPC security best practices
- Using AWS Identity and Access Management (IAM) for VPC access control

Hybrid Cloud Connectivity

- Configuring VPC VPN connections (Site-to-Site VPN and Client VPN)
- Setting up AWS Direct Connect for dedicated private network connections

VPC Design and Best Practices

- Designing VPC architectures for scalability and fault tolerance
- Optimizing VPC performance and cost
- Implementing tagging strategies for resource management

Monitoring and Troubleshooting VPC

- Monitoring VPC using AWS CloudWatch metrics and alarms
- Troubleshooting common VPC networking issues