Virtualization, Windows Server & AWS Cloud Lab Workbook

LAB SECTIONS | Windows & Cloud

Practical lab assignments connecting local virtualized server environments with scalable AWS cloud infrastructure deployment and structured troubleshooting.

KEY MODULES & STUDY CHECKLIST

01. Lab 01: Deploying a Windows Server Domain Controller with DNS, DHCP & GPOs
02. Lab 02: Building a multi-subnet virtual lab network with Linux & Windows hosts
03. Lab 03: Architecting a secure two-tier VPC web & database stack on AWS

PRACTICAL LAB COMMANDS & QUICK REFERENCE

```
# Lab 01: Verify Active Directory services & DHCP scopes
Get-Service ADWS,DNS,NTDS,DHCPServer | Format-Table Name,Status
# Lab 02: Validate virtual network routing & DNS resolution
Test-NetConnection -ComputerName 192.168.50.10 -Port 443
# Lab 03: Inspect EC2 instances & S3 bucket policies
aws ec2 describe-instances --query Reservations[].Instances[].State.Name
```

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