Amazon Web Services, Part 3 of 8: Virtual Private Cloud

Meet the expert: David Fraas is a technology evangelist specializing in cloud cover.His passion has become his expertise in web applications, product marketing and cloud solutions architecture. David is a certified cloud architect and has been providing his digital leadership through consulting and training for over 15 years. His company, Digital6 Technologies architects, builds and manages excellent cloud solutions for data migration, backup and disaster recovery.

Prerequisites: The AWS Essentials course is for those who are new to Amazon Web Services. You will be introduced to AWS, setting up your own AWS account, and an overview of all of the AWS services. We also dive deeper into AWS's core services. This course assumes a basic understanding of cloud services, but no previous experience with AWS is assumed or required.

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Course description: As most of the resources you create in Amazon Web Services (AWS) will be inside your virtual private cloud (VPC), it's vital that your network is correctly set up from the get-go. If not, your network may become vulnerable to security risks which could result in hacked web applications or databases, and internal resource communication may be interrupted, rendering them useless. Discover the correct way to setup a VPC using proper security measures to keep out uninvited guests.

Course outline:

Net and Content Delivery
- Introduction
- A VPC Overview
- Network and Delivery
- Network and Delivery, CloudFront
- Network and Delivery, Direct Connect
- Summary

RTS
- Introduction
- Network and Delivery, Route53
- Network and Delivery, Routing Policy
- Demo: Route53
- Demo: Route53, Continued
- Demo: Route53, California
- Demo: Route53, Traffic Management
- Summary

VPC
- Introduction
- VPC
- VPC – NAT Gateways and Endpoints
- VPC - Peering Connections
- Demo: VPCs, Create via Wizard
- Demo: VPCs, Wizard Completed
- Demo: VPCs, Create Manually
- Demo: VPCs, Route Tables and NAT Gateway
- Summary

VPC Security
- Introduction
- VPC Subnet Security
- Demo: VPC Security, ACLs
- Demo: VPC Security, Groups
- Summary