What is the default VPC, and how is it different from a custom VPC?

Aspect	Default VPC	Custom VPC
Creation	Automatically created by AWS	Manually created by user
Configuration	Pre-configured with default settings	Fully customizable configuration
Number per Region	One per region per account	Multiple VPCs allowed per region
IP Address Range	AWS assigns default CIDR (172.31.0.0/16)	User defines custom CIDR blocks
Subnets	Default public subnets in each AZ	Custom public/private subnets
Internet Gateway	Automatically attached	Must be manually created and attached
Route Tables	Default route table with internet route	Custom route tables with user-defined routes
Security Groups	Default security group created	Custom security groups as needed
Public IP Assignment	Enabled by default for instances	User controls public IP assignment
Network ACLs	Default NACL allows all traffic	Custom NACLs for granular control
DNS Resolution	by default	User configurable
DNS Hostnames	Enabled Enabled by default	User configurable
Complexity	Simple, ready-to-use	Complex, requires network planning
Use Case	Quick testing, learning, simple apps	Production workloads, complex architectures

Aspect	Default VPC	Custom VPC
Security Level	Basic security	Enhanced security with custom controls
Cost	No additional VPC costs	No additional VPC costs (same pricing)
Deletion	Cannot be deleted (can recreate if deleted)	Can be deleted when no longer needed
Best For	Beginners, prototyping, simple workloads	Enterprise, production, compliance requirements

1. What is a default VPC?
A. Created by user automatically
B. Created by AWS in each region
C. Has no subnets
D. Only for internal AWS services

B. Created by AWS in each region ✅

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2. Which feature is enabled by default in a default VPC?
A. NAT Gateway
B. VPC Peering
C. Auto-assign public IP
D. VPN Connection

C. Auto-assign public IP ✅

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3. What is true about custom VPCs?
A. They come with internet access by default
B. They are created manually
C. Subnets are auto-created
D. They cannot use Internet Gateway

B. They are created manually ✅

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4. Which component is pre-attached in a default VPC?
A. VPN
B. Transit Gateway
C. Internet Gateway
D. NAT Instance

C. Internet Gateway ✅

5. How is a custom VPC different from a default VPC?

A. Custom VPC has fewer route tables
B. Default VPC allows private subnets only
C. You set up all components in a custom VPC
D. Default VPC has no security group

C. You set up all components in a custom VPC ✅