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ORACLE Gold Partner | Silver Microsoft Partner | DevOps Institute Registered Education Partner

Introduction to AWS

Instructor

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- **18 years of working experience** in MNC's
- Certified AWS Architect
- Experience in Corporate training
- Extensive knowledge in Designing and Delivering Corporate IT solutions

WhatsApp & Ticketing System

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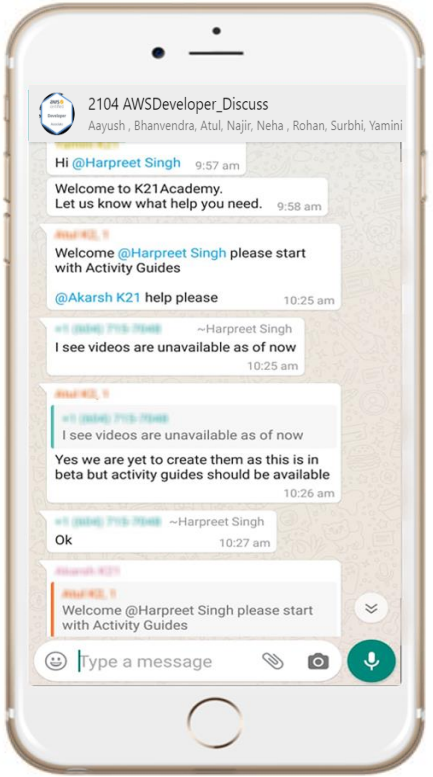
support@k21academy.com

zendesk



Success Stories

Rohan Mode
AWS SAA-C02 Certified
/rohan-mode/

Bhanvendra Singh
AWS SAA-C02 Certified
/bhanvendra-singh-gaur-790a8a195/

Kamala Narayan
AWS SAA - C02 Certified
/kamala-narayan-2b2707192

Palayam Sundaram
AWS SAA-C02 Certified
palayam-sundaram-13567b10/

Toluwani Daramola
AWS SAA-C02 Certified
/toluwanidaramola

Success Stories

Sujatha Arunachalam
sujatha-arunachalam/

Ronald McCoy
ronald-mccoy-186228/

Joanna Schrap
joanna-s-252109/

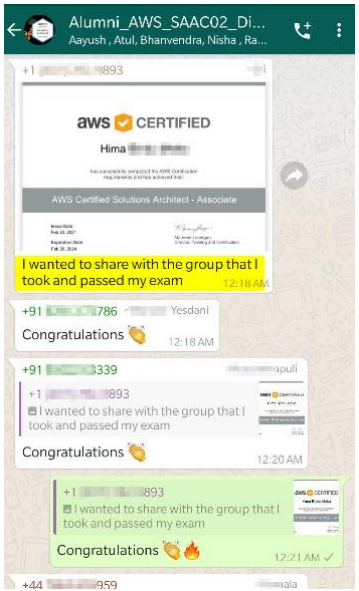
Al Pineda
alpineda0/

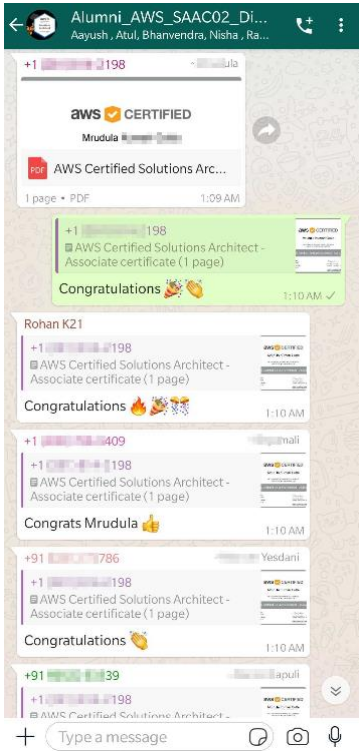
Toluwani Daramola
toluwanidaramola/

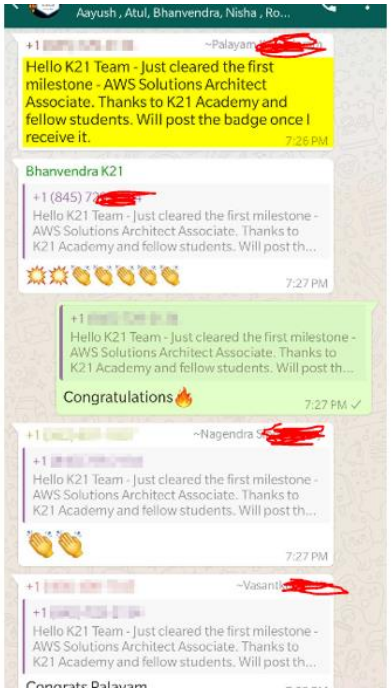
Martial D.
martial-kemogne-6a6543169/

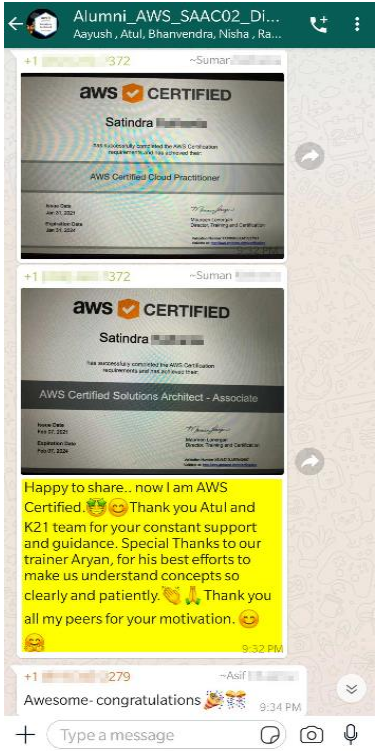
Michael Oehlert
michaelwoehlert/

To Inspire You

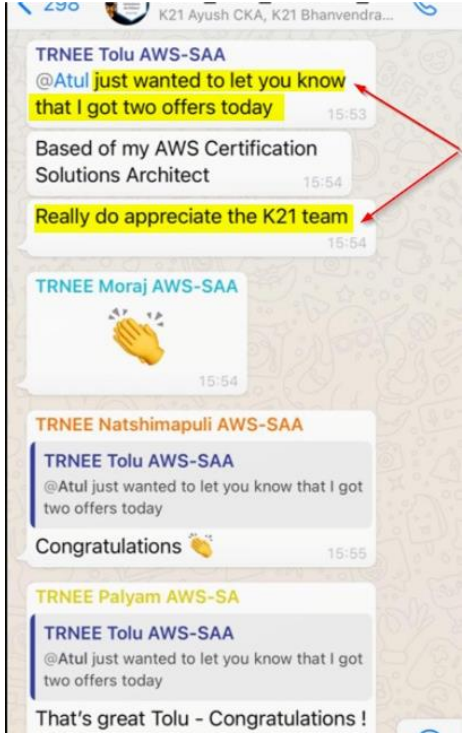


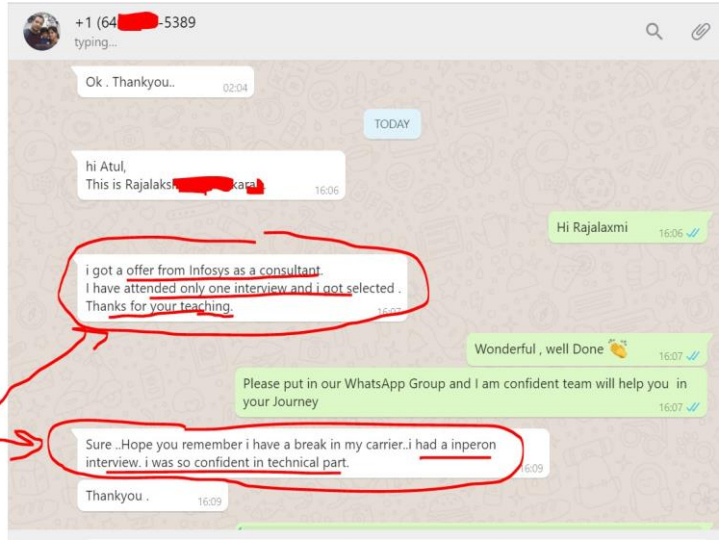






To Inspire You: Jobs





To Inspire You: Jobs

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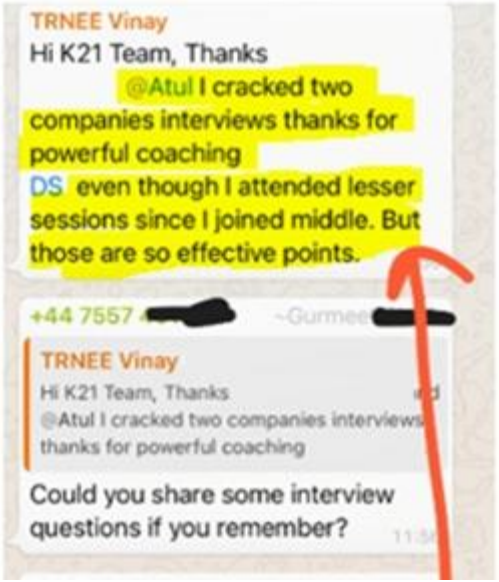

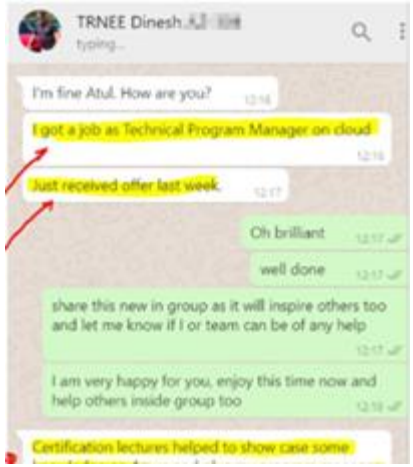

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AWS SAA-C02 Module Agenda

Agenda: Module

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- Cloud Introduction
- Cloud service model
- Cloud Deployment Model
- AWS Introduction
- AWS Global Infrastructure
- AWS Region
- AWS Availability Zones

Agenda: Module

- AWS Services
- Create Linux EC2 Machine
- Create Windows EC2 Machine
- Web Server (IIS) on EC2
- Ways To Access Services

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Cloud Service Model

What is Cloud ?

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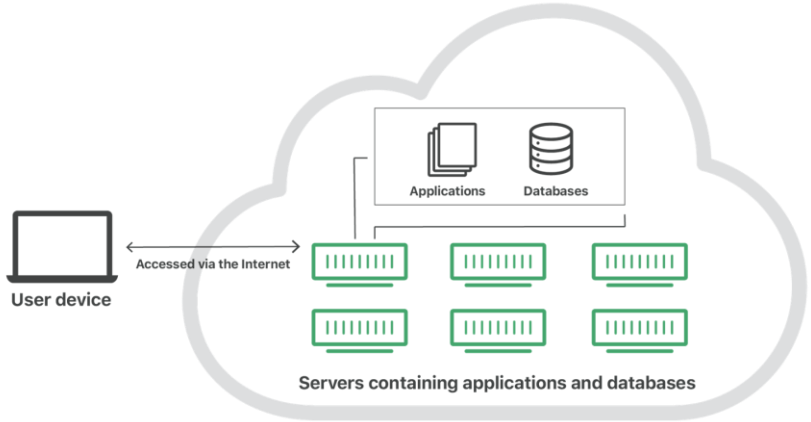
➢Cloud computing is the delivery of computing services: servers, storage, databases, networking, tools and software over the Internet.

➢Cloud computing enables companies to consume a compute resource, such as a servers, storage or an application, as a utility like water or electricity, rather than having to build and maintain computing infrastructures in house.



Cloud Characteristics

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On-demand self-service

No human intervention needed to get resources

Broad network access

Access from anywhere

Resource pooling

Provider shares resources to customers

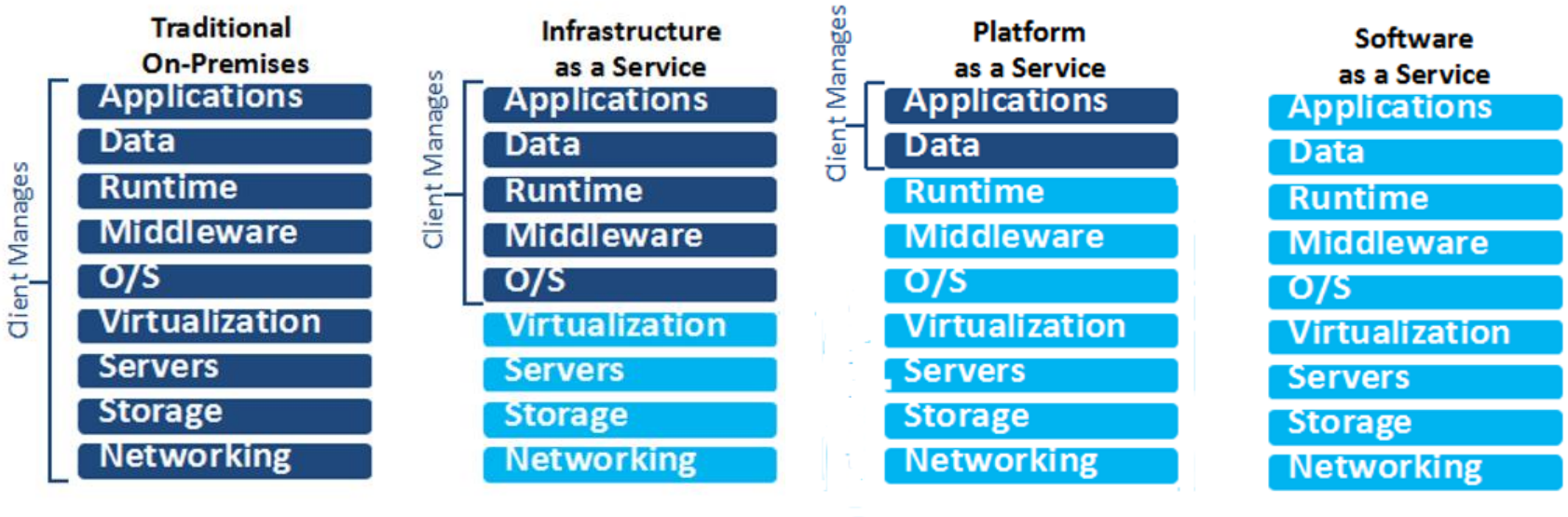
Rapid elasticity

Get more resources quickly as needed

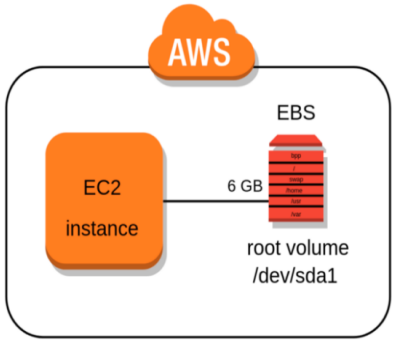
Measured service

Pay only for what you consume

Cloud Service Model



Example: IaaS



Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) Cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.

Example: SaaS

AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. At the same time, you retain full control over the AWS resources powering your application and can access the underlying resources at any time.

Example: SaaS

- Google Workspace (formerly GSuite)
- Dropbox.
- Salesforce.
- Cisco WebEx.
- SAP Concur.
- GoToMeeting.

Cloud Deployment Model

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PUBLIC CLOUD

- Offered by third-party providers
- Available to anyone over the public internet
- Scales quickly and convenient

HYBRID CLOUD

- Combination of both public & private cloud
- Shared security responsibility
- Helps maintain tighter controls over sensitive data & processes

PRIVATE CLOUD

- Offered to select users over the internet or a private internal network
- Provides greater security controls
- Requires traditional data center staffing & maintenance

AWS Outpost

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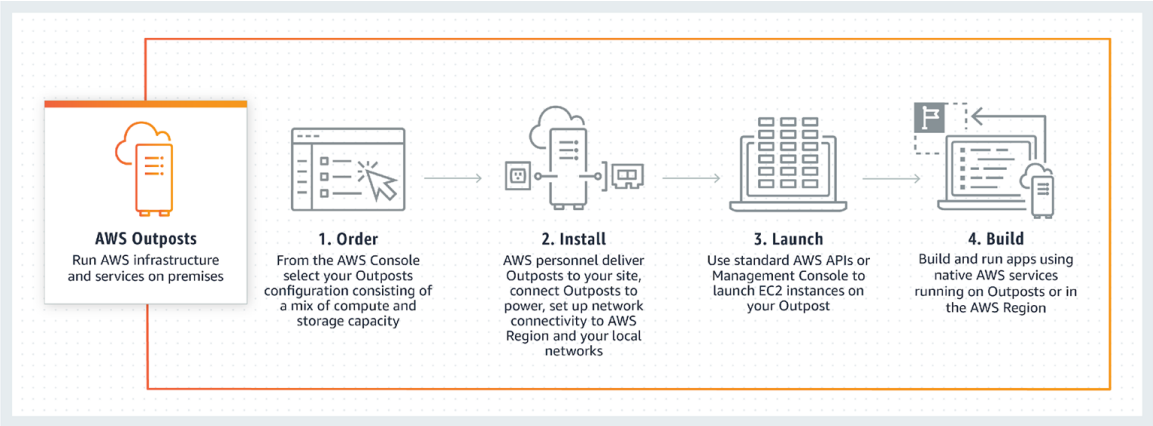
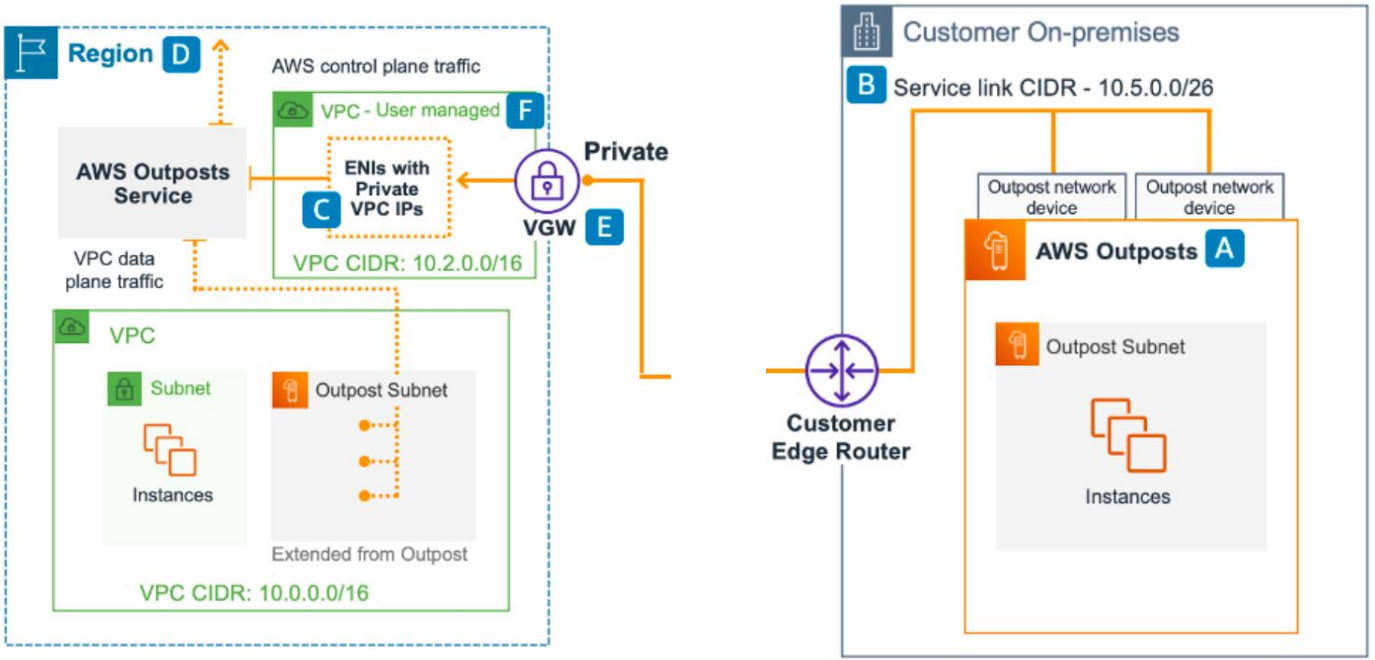
AWS Outposts is a fully managed service that offers the same AWS infrastructure, AWS services, APIs, and tools to virtually any datacenter, co-location space, or on-premises facility for a truly consistent hybrid experience. AWS Outposts is ideal for workloads that require low latency access to on-premises systems, local data processing, data residency, and migration of applications with local system interdependencies.



Hybrid Cloud



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Introduction

Market Survey Of AWS

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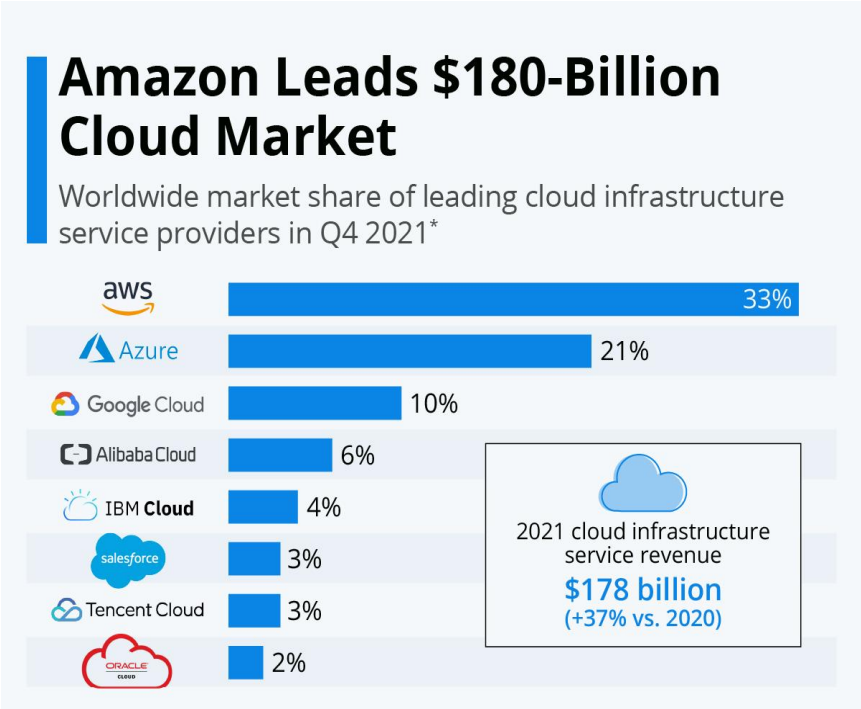

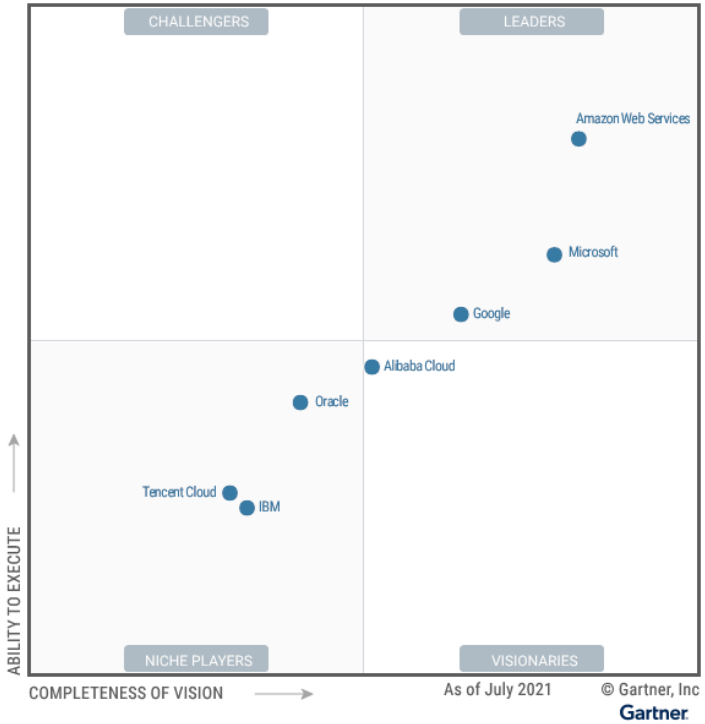

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AWS Global Infrastructure

AWS Global Infrastructure

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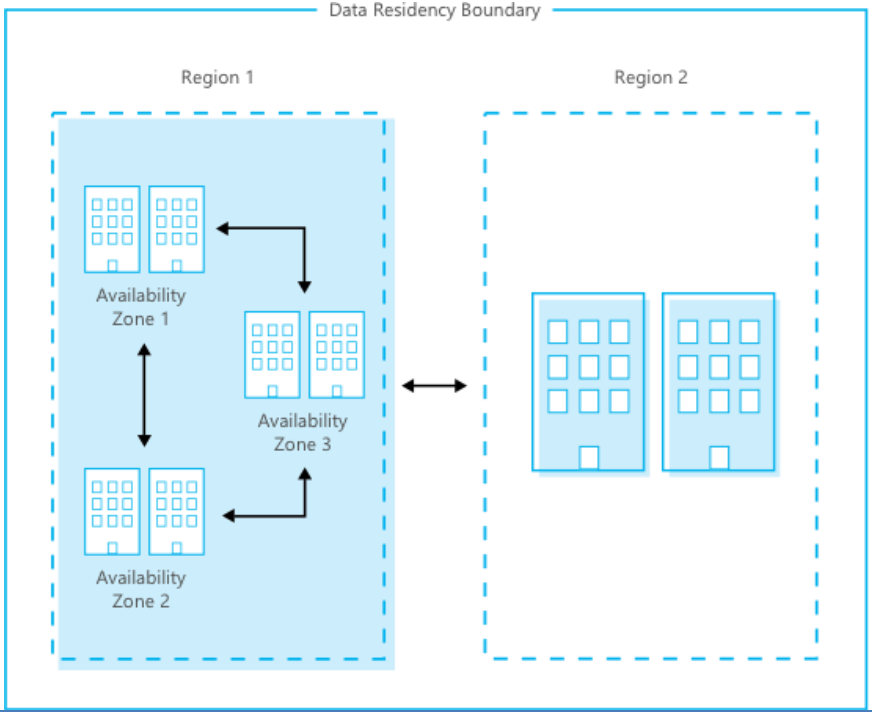
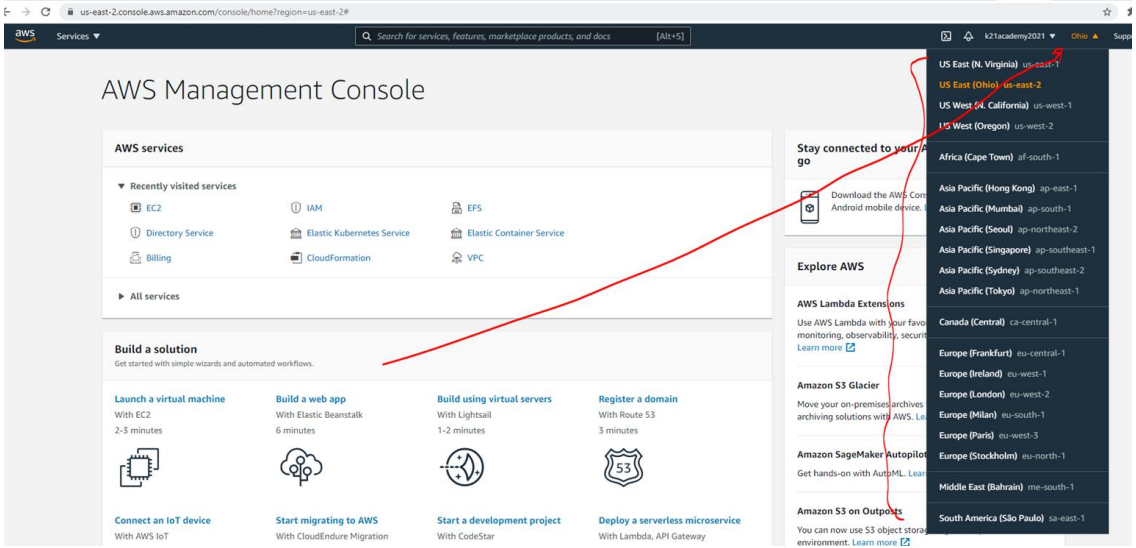
AWS Global Infrastructure Consists of:

- Regions
- Availability Zones
- Edge Locations

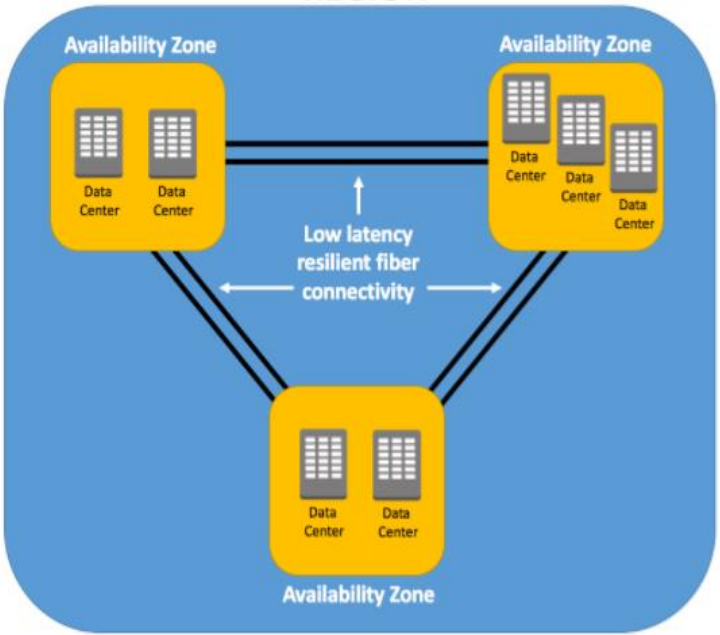


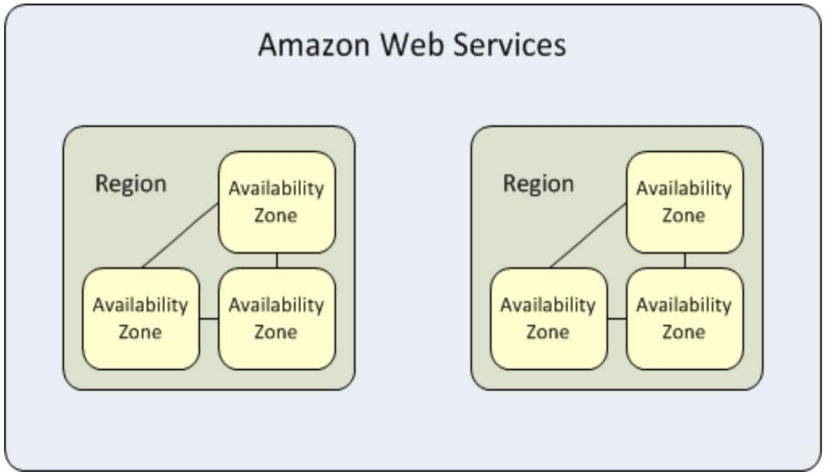
AWS Region

Choosing Region

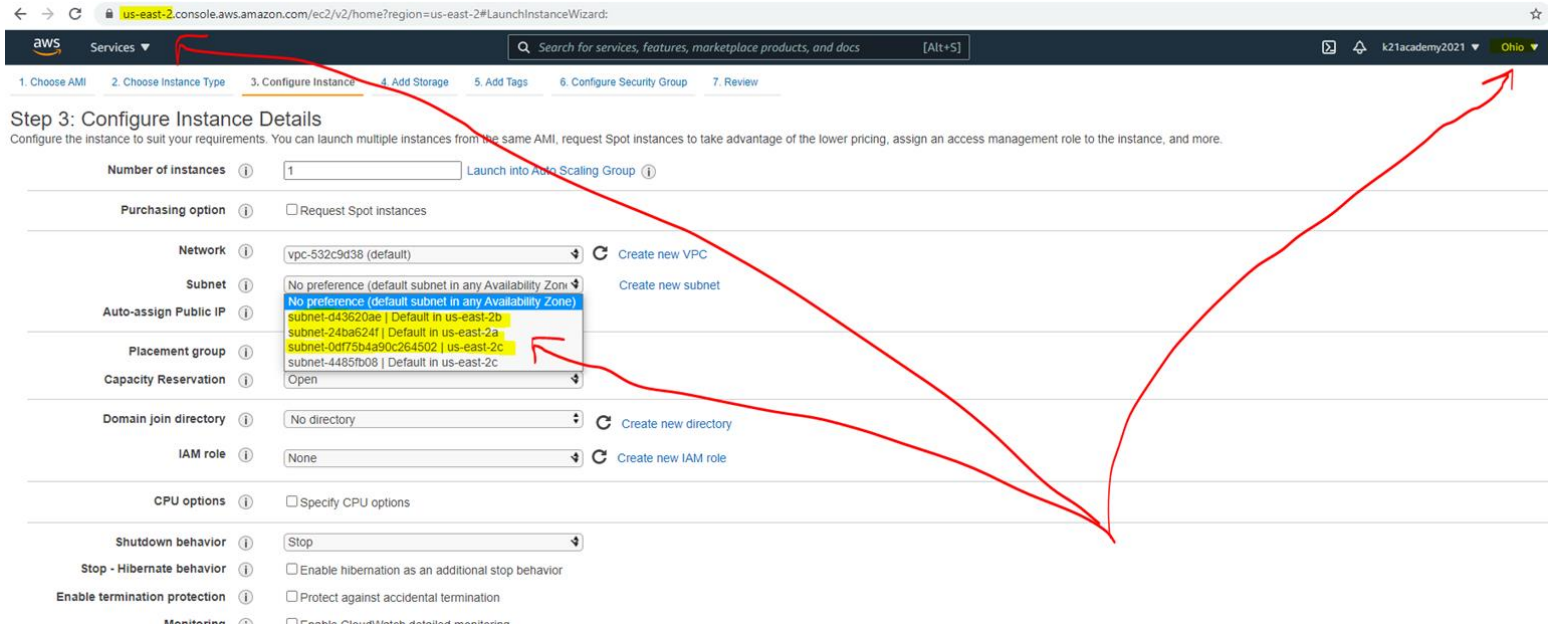


AWS Zones





Choosing Zone



AWS Global Infrastructure

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With millions of active customers and tens of thousands of partners globally, AWS has the largest and most dynamic ecosystem. Customers across virtually every industry and of every size, including start-ups, enterprises, and public sector organizations, are running every imaginable use case on AWS.

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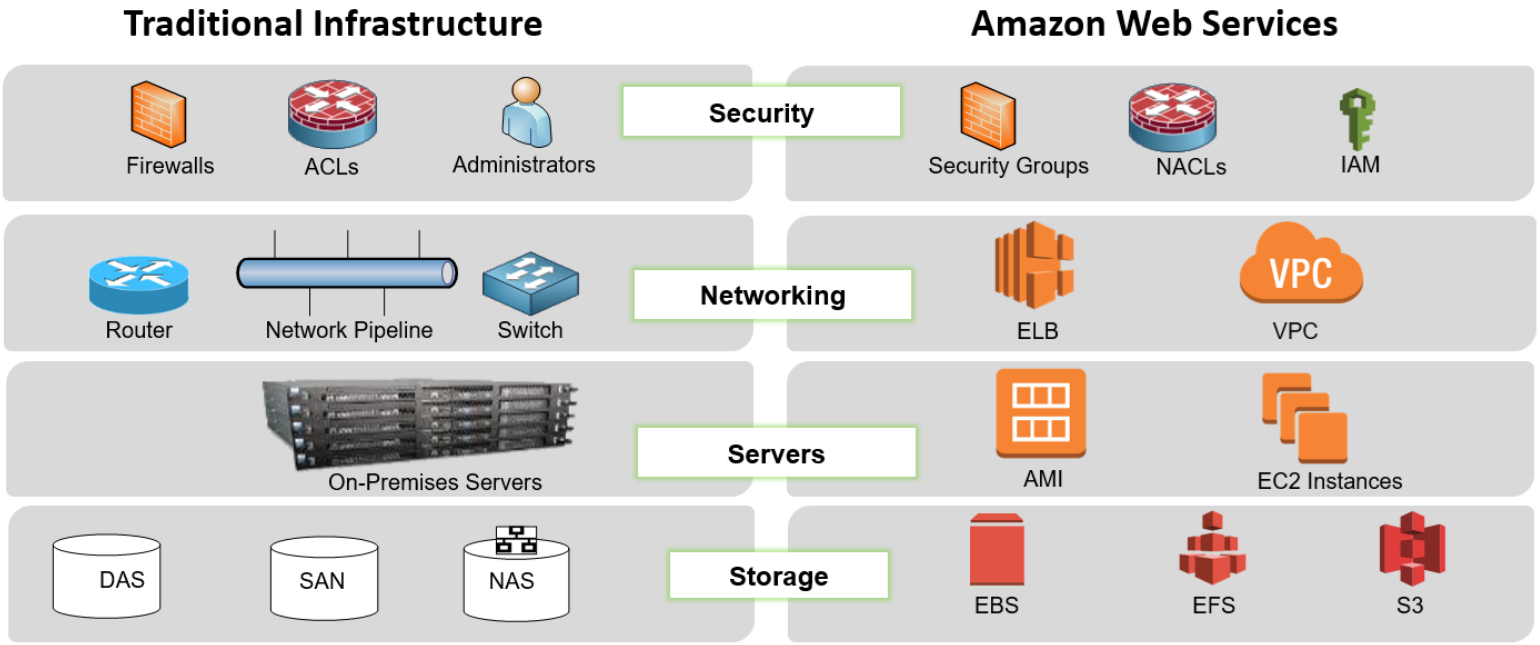
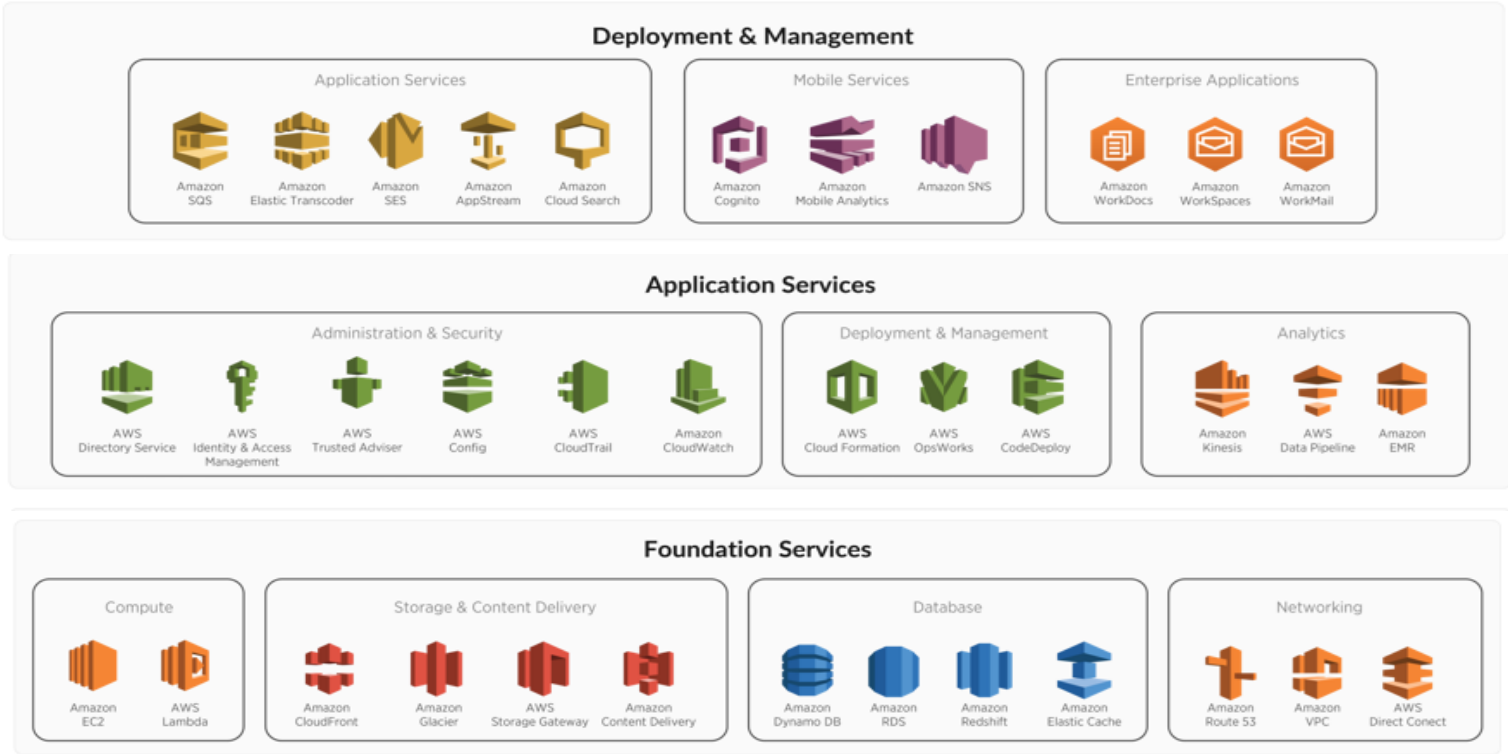
AWS Services

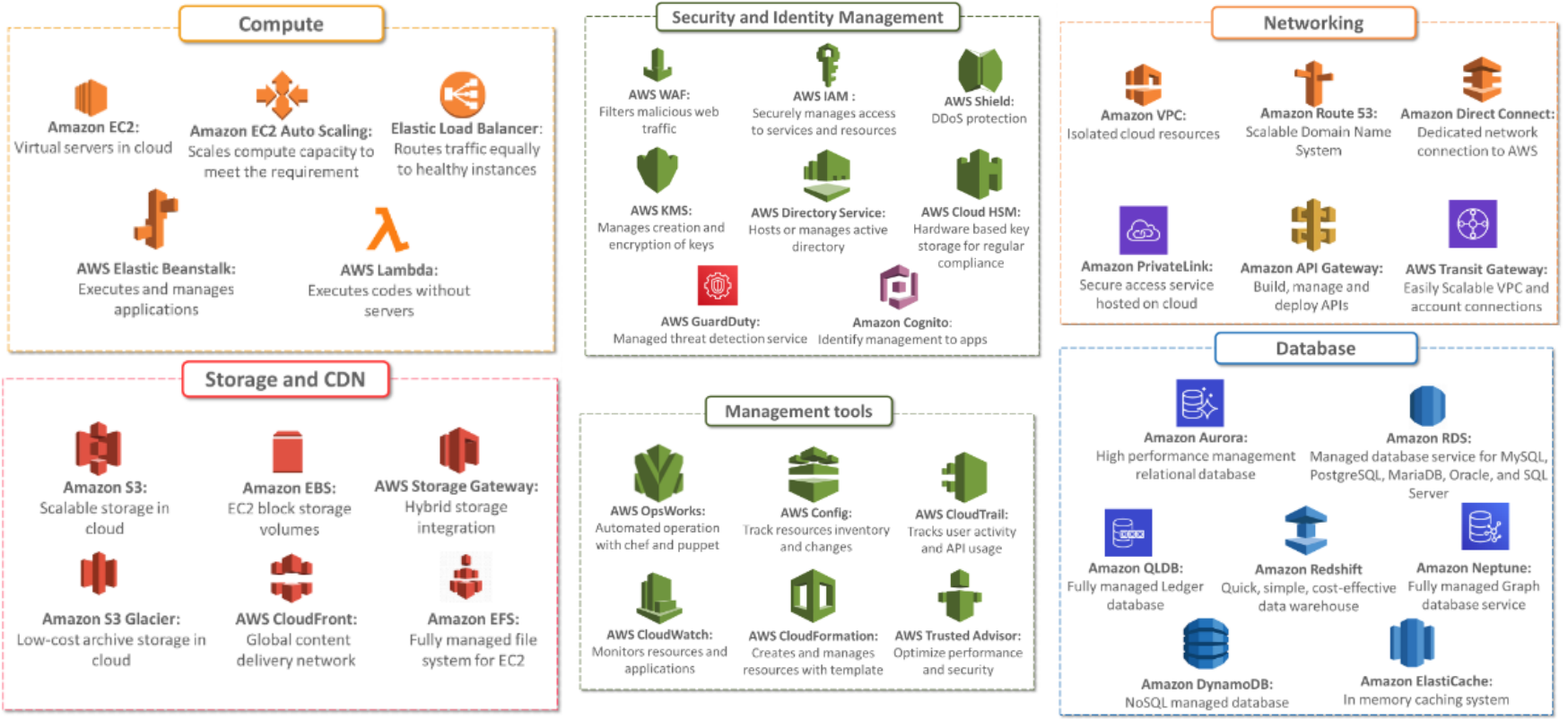
Traditional vs AWS



AWS Services



AWS Services



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Activity Guide
Create FREE Account

Register for FREE Cloud Account

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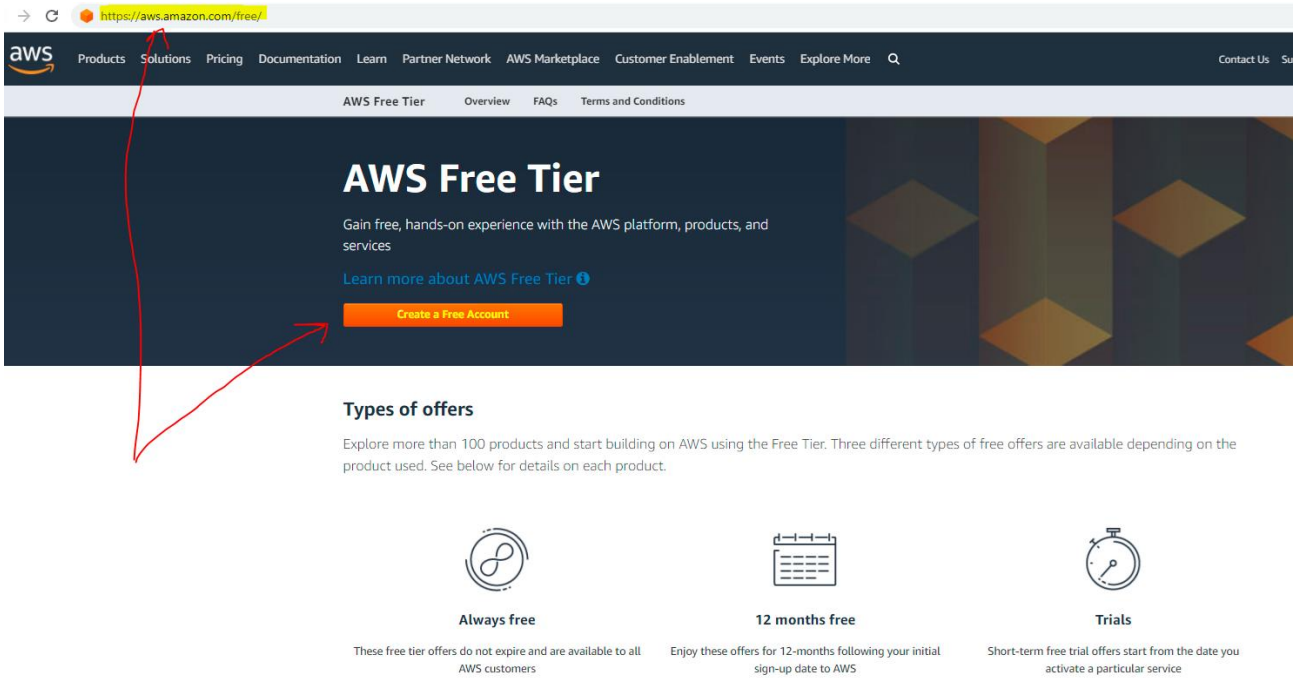

Register for FREE Cloud Account

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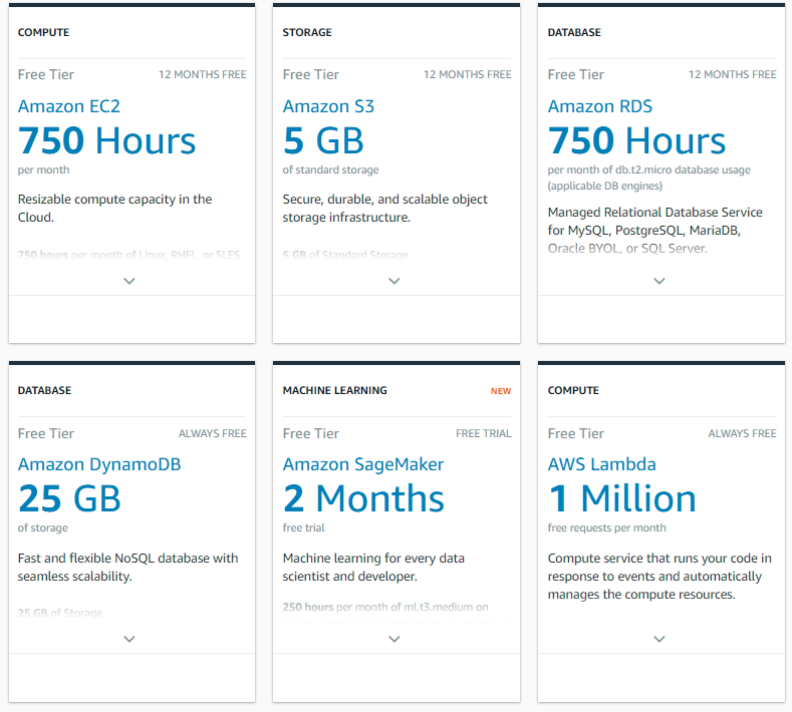
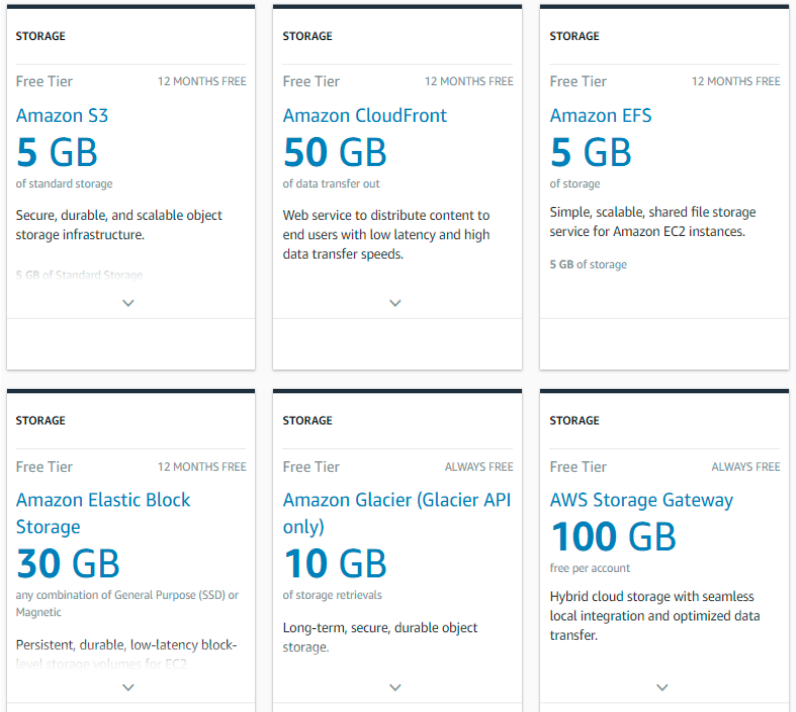




Register for FREE Cloud Account

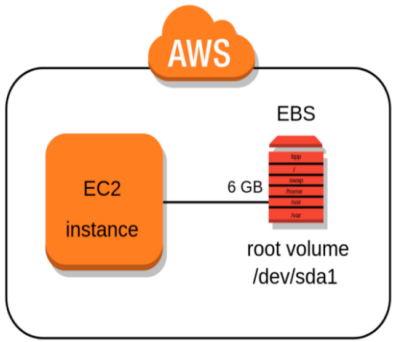
Register for AWS Free Tier Account
Amazon Web Services
&
Login to AWS Console

[Edition 6]

[Last Update 210624]

Contents

EC2



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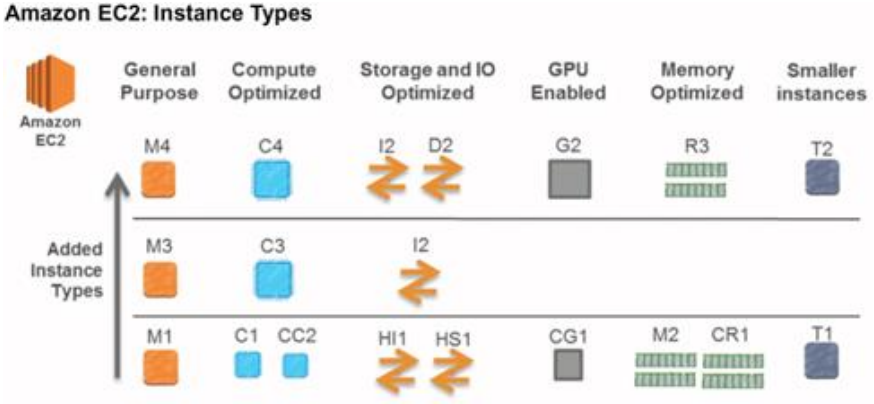
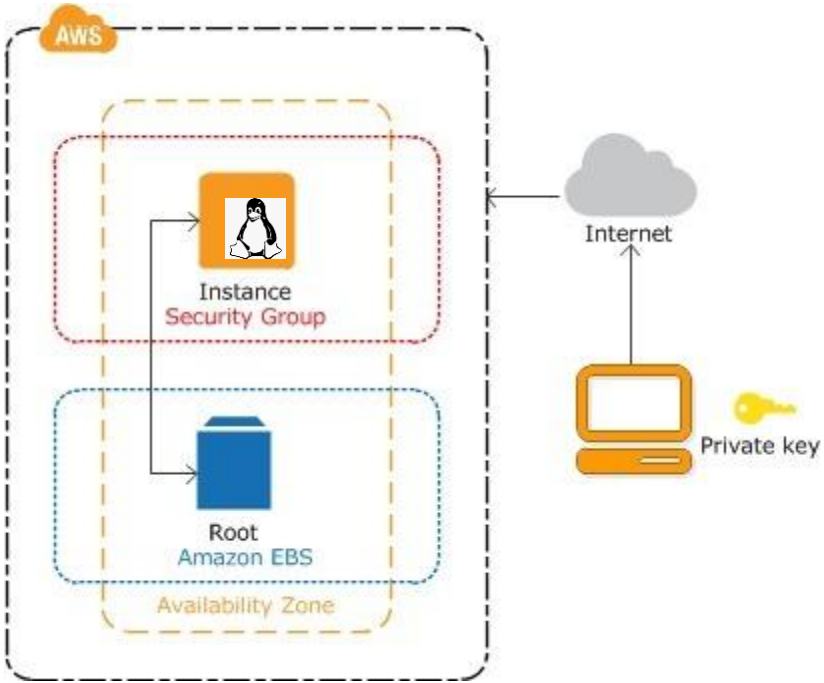
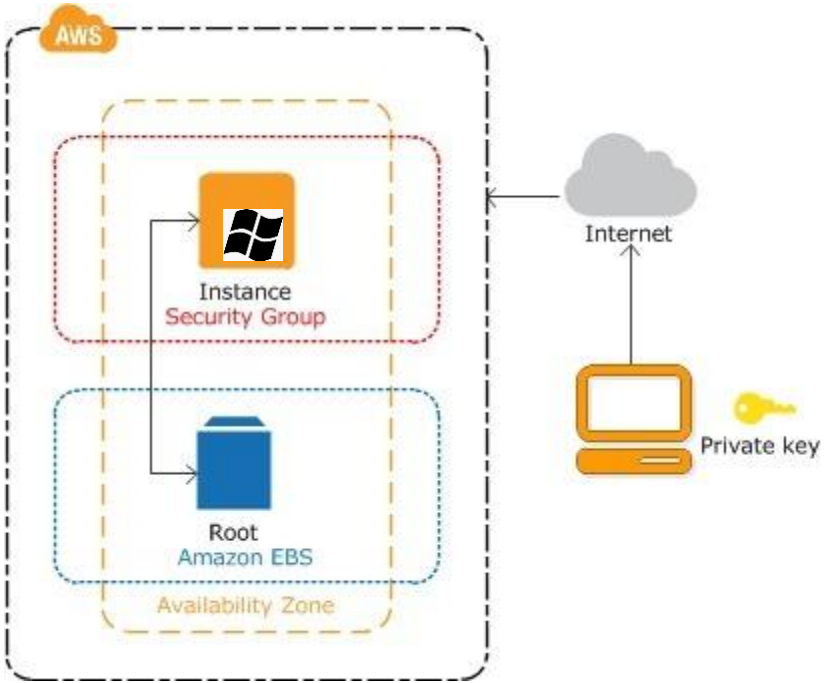


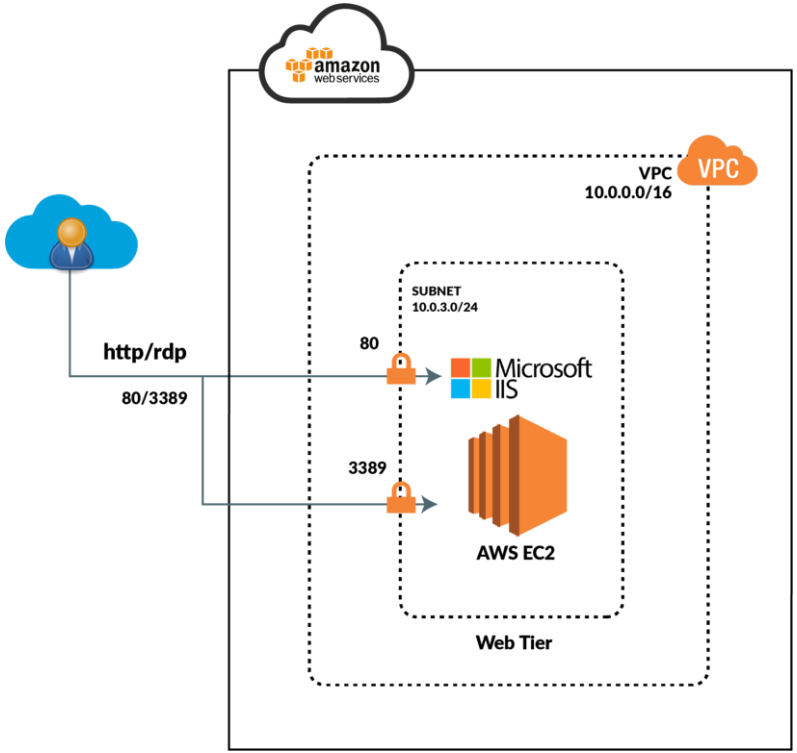
Create Linux EC2 Machine



Create Windows EC2 Machine



Web Server (IIS) on EC2



Module on Portal

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http://k21academy.com/awssam01

http://k21academy.com/awssam02

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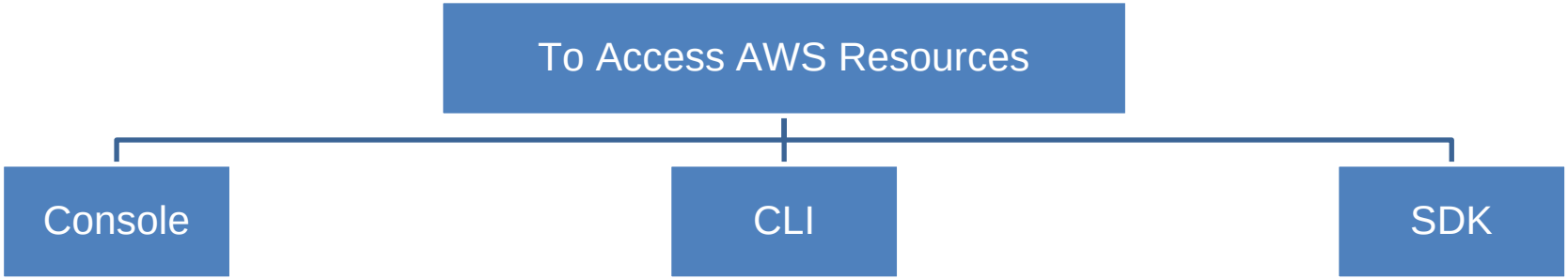
Ways To Access Services

Ways to Access AWS Resources



- Simple web-based user interface
- AWS has a different GUI for android and iOS to access some of the services like EC2, DynamoDB, ELB, Beanstalk, CloudWatch and many more

- Tool used to manage AWS resources and automates service management with scripts
- Mac, Linux and Windows OS supports CLI
- AWS SDKs provides an easy-to-use GUI to access and administer AWS infrastructure

- All major programming languages has compatibility with AWS SDK, including Java, .Net, PHP, Ruby, Python, Go, C++, Node.js and many more

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