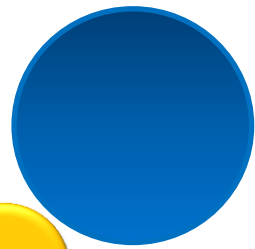


# AMAZON WEB SERVICES



**MISSION TO TRAIN THE  
STUDENT WELL  
ESTABLISHED SOCIETY  
WITH A POOL OF HUMAN  
TALENTS TO FULLFILL THE  
REQUIREMENTS  
COMPANY/NATION WITH  
SYSTEMATICS APPROACH!**



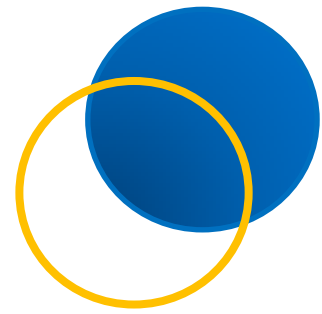
## **ABOUT**

### **AMAZON WEB SERVICES AGASTYAS SOLUTIONS**

**AGASTYAS SOLUTIONS** is provides a well-known professional's **AMAZON WEB SERVICES** training.

**AMAZON WEB SERVICES** Course offered at AGASTYAS SOLUTIONS are devised with best practices recommended by Google and other leading search engines. Our strategies are developed with many years of experience. We are passionate about **AMAZON WEB SERVICES** and that's why our strategies WORK! We are sure our sound knowledge and effective **AMAZON WEB SERVICES** principles will turn you into an **AMAZON WEB SERVICES** Professional.





# ● OUR MOTO!

TO TRAIN AND MAKE  
EVERYSTUDENT AN  
OUTSTANDING AMAZON  
WEB SERVICES  
PROFESSIONALS.



AGASTYA SOLUTIONS



# OUR STUDENTS WORKS AT



AGASTYA SOLUTIONS

A journey to excellence



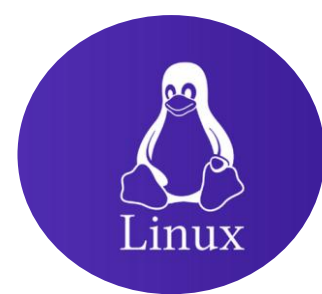
# ADVANCED AND EXPERT AMAZON WEB SERVICES

- ❖ SUPPORT & GUIDANCE FOR GOOGLE & OTHER INDUSTRY CERTIFICATIONS.
- ❖ CASE STUDIES & REAL TIME PROJECTS/  
TRAINING

**DURATIONS**

*45 - 75 Hours..⌚*





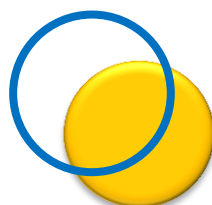
# LINUX FUNDAMENTALS

## INSTALLATION AND INITIALIZATION

- ✚ INSTALLATION, PACKAGE SELECTION
- ✚ ANATOMY OF A KICKSTART FILE, COMMAND LINE
- ✚ INTRODUCTION TO BASH SHELL
- ✚ SYSTEM INITIALIZATION, STARTING THE BOOT PROCESS: GRUB

## BOOT AND PACKAGE MANAGEMENT

- ✚ CONFIGURING SERVICES TO RUN AT BOOT
- ✚ SECURING SINGLE-USER MODE (SU LOGIN)
- ✚ SHUTTING DOWN AND REBOOTING THE SYSTEM
- ✚ RPM PACKAGE MANAGER, INSTALLING AND REMOVING SOFTWARE, UPDATING A KERNEL RPM



✚ YUM COMMAND SET, INSTALL PACKAGES BY USING YUM

✚ APT-GET COMMAND SET, APT-CACHE PACKAGE MANAGEMENT



## **USER ADMINISTRATION**

✚ UNDERSTANDING DIFFERENT TYPES OF GROUPS AND CREATION OF GROUPS

✚ CREATION OF USERS IN DIFFERENT GROUPS

✚ UNDERSTANDING PASSWD, SHADOW FILES

✚ UNDERSTANDING PASSWORD AGING

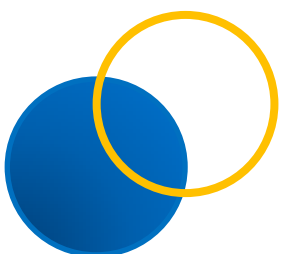
✚ CREATION OF QUOTAS FOR USERS, GROUPS AND FILE SYSTEMS

✚ UNDERSTANDING USERS SECURITY FILES

✚ THE DIFFERENT COMMANDS FOR MONITORING THE USERS

✚ TROUBLESHOOTING

✚ AUTOMATION OF JOBS – CRON, AT





## RUN LEVELS

- ✚ UNDERSTANDING THE DIFFERENT TYPES OF RUN-LEVELS
- ✚ UNDERSTANDING DIFFERENT TYPES OF SHUTDOWN COMMANDS
- ✚ UNDERSTANDING RUN CONTROL SCRIPTS
- ✚ UNDERSTANDING THE DIFFERENT TYPES

## OVERVIEW OF THE SERVICE PROTOCOLS

- ✚ FTP
- ✚ DHCP
- ✚ DNS
- ✚ APACHE
- ✚ SAMBA
- ✚ LVM



# CLLOUD COMPUTING

- # INTRODUCTION TO CLOUD COMPUTING
- # WHY CLOUD COMPUTING?
- # BENEFITS OF CLOUD COMPUTING
- # TYPES OF CLOUD COMPUTING
- # PUBLIC CLOUD
- # PRIVATE CLOUD
- # HYBRID CLOUD
- # COMMUNITY CLOUD
- # SOFTWARE AS A SERVICE
- # PLATFORM AS A SERVICE
- # HORIZONTAL VS VERTICAL SCALING
- # CLOUD COMPUTING ISSUES
- # SECURITY
- # COSTING MODEL





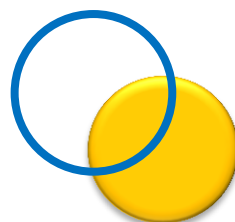
# WHAT IS VIRTUALIZATION

- + VIRTUALIZATION AND CLOUD COMPUTING
- + TYPES OF VIRTUALIZATION
- + VIRTUALIZATION TERMINOLOGIES
- + HYPERVISOR
- + BENEFITS
- + VENDORS



# AWS PLATFORM

- + INTRODUCTION TO AWS ELASTIC COMPUTING
- + INTRODUCTION TO THE AWS PRODUCTS
- + REGIONS AND AVAILABILITY ZONES
- + SIGNING UP FOR AWS
- + AWS FREE USAGE TIER
- + INTRODUCTION AWS MANAGEMENT CONSOLE





Amazon  
**EC2**

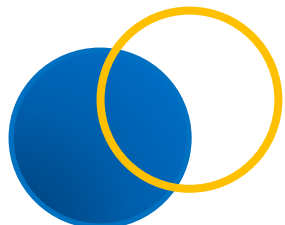
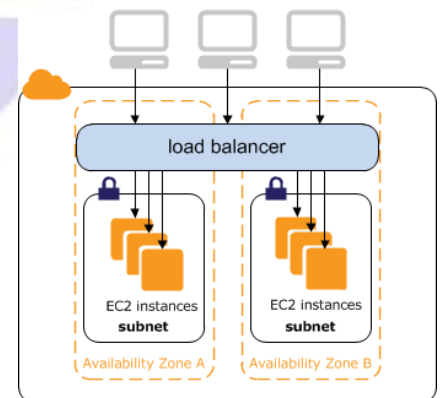
## EC2 INSTANCE

- # UNDERSTANDING AMI
- # LAUNCHING YOUR FIRST AWS INSTANCE
- # ON-DEMAND INSTANCE PRICING
- # RESERVED INSTANCE PRICING
- # SPOT INSTANCE PRICING
- # SETTING UP SECURITY
- # SECURITY GROUPS
- # CHOOSING & CREATING A NEW AMI
- # PUBLIC AND PRIVATE IP'S
- # DEPLOYING A NEW INSTANCE FROM THE CREATED AMI
- # KEY PAIRS
- # ELASTIC IP'S



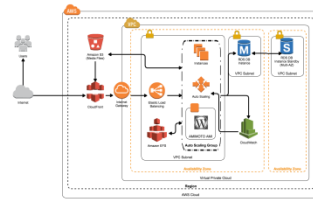
## LOAD BALANCING

- # INTRODUCTION TO SCALING
- # ELB(ELASTIC LOAD BALANCER)





- COMPONENTS AND TYPES OF LOAD BALANCING



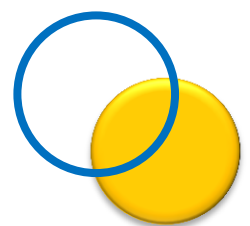
## AUTO-SCALING

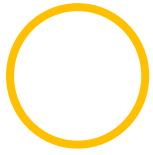
- GET STARTED WITH AUTO SCALING USING THE CONSOLE
- MAINTAIN A FIXED NUMBER OF RUNNING EC2 INSTANCES
- DYNAMIC SCALING
- THE LIFECYCLE OF AUTOSCALING
- POLICIES OF AUTOSCALING



## EBS (ELASTIC BLOCK STORAGE)

- CREATE EBS VOLUMES
- DELETE EBS VOLUMES
- ATTACH AND DETACH EBS VOLUMES
- MOUNTING AND UNMOUNTING EBS VOLUME
- CREATING AND DELETING SNAPSHOTS





- ✚ CREATING VOLUMES FROM SNAPSHOTS
- S3(SIMPLE STORAGE SERVICE)

## STORAGE IN CLOUD

- ✚ S3 DURABILITY AND REDUNDANCY
- ✚ S3 BUCKETS
- ✚ S3 UPLOADING DOWNLOADING
- ✚ S3 PERMISSIONS
- ✚ S3 OBJECT VERSIONING
- ✚ S3 LIFECYCLE POLICIES
- ✚ STORAGE GATEWAY
- ✚ IMPORT EXPORT
- ✚ S3 TRANSFER ACCELERATION
- ✚ GLACIER STORAGE

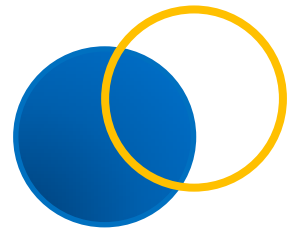


## CLOUD FRONT

- ✚ USE OF CLOUD FRONT
- ✚ CREATING A CLOUD FRONT DISTRIBUTION



✚ HOSTING A WEBSITE OF CLOUD FRONT DISTRIBUTION



✚ IMPLEMENTING RESTRICTIONS

✚ CONFIGURING ORIGINS AND BEHAVIORS

## ROUTE53



Route53

✚ CREATING ZONES

✚ HOSTING A WEBSITE

✚ UNDERSTANDING ROUTING POLICIES

✚ WEIGHTED SIMPLE AND FAILOVER POLICIES

## IDENTITY ACCESS MANAGEMENT

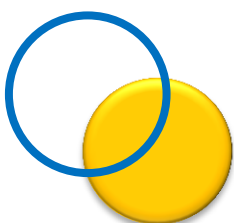
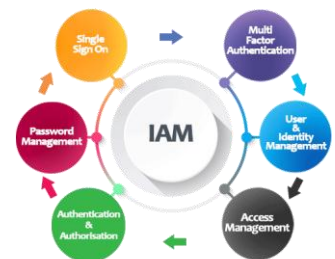
### (IAM)

✚ CREATING USERS AND GROUPS

✚ APPLYING POLICIES

✚ PASSWORD POLICY

✚ ROLES



# AWS SECURITY MANAGEMENT



✚ SECURITY PRACTICES FOR CLOUD  
DEPLOYMENT

✚ AWS RESPONSIBILITIES AND SECURITIES

✚ CLOUD TRAIL

✚ TRUST ADVISOR



# AMAZON VIRTUAL PRIVATE CLOUD (VPC)



Amazon Virtual  
Private Cloud (VPC)

✚ INTRODUCTION TO AMAZON VIRTUAL  
PRIVATE CLOUD (VPC)

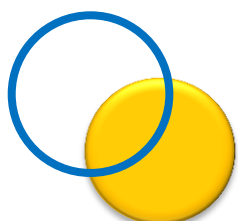
✚ VPC ADVANTAGES

✚ DEFAULT AND NON-DEFAULT VPC

✚ COMPONENTS OF VPC

✚ DIRECT CONNECT

✚ DESCRIBE, CREATE, AND MANAGE AMAZON  
VIRTUAL PRIVATE CLOUD



- ✚ AMAZON VPC, PRIVATE SUBNET, AND PUBLIC SUBNET
- ✚ AWS NETWORKING, SECURITY GROUPS, AND NETWORK ACLS
- ✚ CONFIGURATION AND MANAGEMENT OF VPN CONNECTIVITY
- ✚ SUBNET AND SUBNET MASK

## RELATIONAL DATABASE SERVICE (RDS)



- ✚ INTRODUCTION TO RDS
- ✚ DIFFERENT DATABASE SERVICES OF AWS: AMAZON RDS, DYNAMO DB, REDSHIFT ETC.
- ✚ CONFIGURING THE DATABASE
- ✚ CONFIGURING BACKUPS
- ✚ CONFIGURING THE MAINTENANCE WINDOWS
- ✚ CONNECTING TO THE DATABASE



## DYNAMO DB

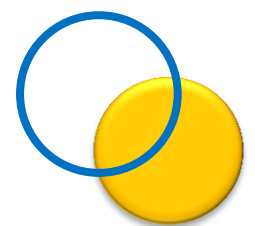


**amazon**  
DynamoDB

- ✚ CREATING A DYNAMO DB
- ✚ CONFIGURING ALARMS
- ✚ ADDING DATA MANUALLY

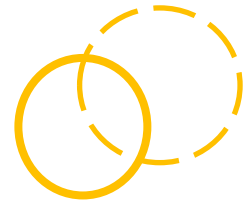
## MANAGEMENT TOOLS

- ✚ CLOUD WATCH DASHBOARD
- ✚ CONFIGURING MONITORING SERVICES
- ✚ SETTING THRESHOLDS
- ✚ CONFIGURING ACTIONS
- ✚ CREATING A CLOUD WATCH ALARM
- ✚ GETTING STATISTICS FOR EC2 INSTANCES
- ✚ MONITORING OTHER AWS SERVICES
- ✚ CONFIGURING NOTIFICATIONS
- ✚ INTEGRATING CLOUD WATCH WITH AUTOSCALING
- ✚ CLOUD TRAIL



## APPLICATION SERVICES

- ✚ WHAT IS SNS
- ✚ CREATING A TOPIC
- ✚ CREATE SUBSCRIPTION
- ✚ SUBSCRIBED TO THE SUBSCRIPTION
- ✚ SQS
- ✚ SES
- ✚ LAMBDA AND ELASTIC BEANSTALK

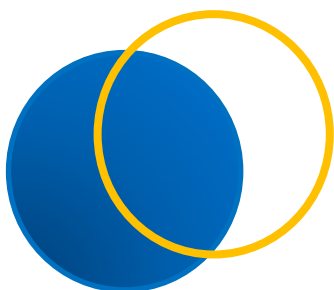


## AWS TROUBLESHOOTING

- ✚ TROUBLESHOOTING EC2 INSTANCE
- ✚ TROUBLESHOOTING USING CLOUD WATCH
- ✚ TROUBLESHOOTING USING ELB
- ✚ TROUBLESHOOTING BY USING CLOUD TRAIL
- ✚ TROUBLESHOOTING BY USING CLOUD FRONT



**AWS CLI**  
**Troubleshooting**





# BACKUP AND DISASTER RECOVERY

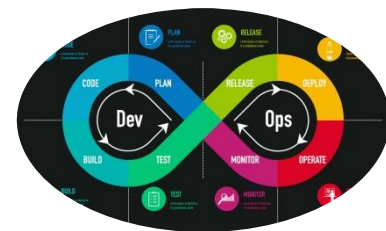
- ✚ HOW TO MANAGE DISASTER RECOVERY AND BACKUPS
- ✚ BEST PRACTICE FOR DR AND BACKUPS
- ✚ AWS HIGH AVAILABILITY DESIGN

# TROUBLESHOOTING AND PRICE CALCULATOR

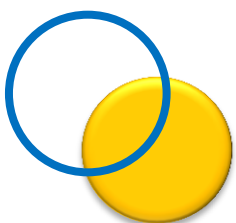


- ✚ AWS BEST PRACTICES (COST + SECURITY)
- ✚ AWS CALCULATOR & CONSOLIDATED BILLING

# DEVOPS FUNDAMENTALS



- ✚ AN UNDERSTANDING OF DEVOPS AND THE MODERN DEVOPS TOOLSETS
- ✚ THE ABILITY TO AUTOMATE ALL ASPECTS OF A MODERN CODE



DELIVERY AND DEPLOYMENT PIPELINE USING:

- #SOURCE CODE MANAGEMENT TOOLS – CVS, GIT
- #BUILD TOOLS – APACHE ANT, MAVEN
- #TEST AUTOMATION TOOLS – JUNIT
- #CONTINUOUS INTEGRATION TOOLS – JENKINS,  
TEAM CITY
- #CONFIGURATION MANAGEMENT  
TOOLS – CHEF, PUPPET, ANSIBLE
- #MONITORING TOOLS – NAGIOS



**GETTING A HIGH PAYING JOB OR  
SETTING UP YOUR BUSINESS**

**BEST WISHES FOR YOUR GREAT  
ENDEAVORS & FUTURE!**

**THANK YOU!**