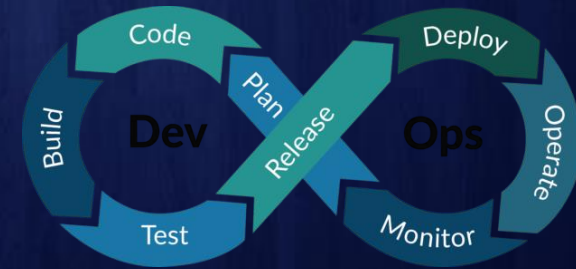


AWS SAA + SysOps + Developer + DevOps Course #Day-3

We will start at **8 AM**,
Stay tuned



RAKESH TANINKI

LEARN TO UNLEARN



Recap (Demo/Day 1):



- **Introduction**

- Course Details
- **AWS Certifications**
- **Career opportunities**
- About me

- **Cloud Computing Basics**

- Traditional IT Overview
- Cloud Computing
- Types of cloud
- Benefits of cloud



Recap (Demo/Day 2):

- What is **DevOps** ?
- Problems before DevOps
- DevOps lifecycle
- Tools in DevOps
- **Cloud Computing Basics**
 - Traditional IT Overview
 - Cloud Computing
 - Types of cloud
 - Benefits of cloud



Today's topics:

- Types of cloud computing
- AWS History
- Shared Responsibility Model
- Hands on – AWS Account creation
- Tour of AWS account and services
- Hands on - AWS Account Best Practices
- Hands on - AWS Budgets setup
- Free tier account - discussion



Course Parts

- Part #1 – Solution's Architecture Associate (**SAA**)
- Part #2 – System Operations Associate (**SOA**)
- Part #3 – Developer Associate (**DOA**) – **AWS DevOps**
- Part #4 – **DevOps**



Course Material

- Go to [Material sheet](#) (always be there in WhatsApp **group description**)



How do you buy a **laptop / mobile**

How do you buy a laptop / mobile



About this item

- Free upgrade to Windows 11 when available* Disclaimer-*The Windows 11 upgrade will be delivered late 2021 into 2022. Timing varies by device. Certain features require specific hardware.
- Processor: 11th Gen Intel Core i3-1115G4 (up to 4.1 GHz with Intel Turbo Boost Technology, 6 MB L3 cache, 2 cores)
- Memory: 8 GB DDR4-2666 SDRAM (1 x 8 GB) | Storage: 256 GB PCIe NVMe M.2 SSD
- Display: 15.6-Inch FHD IPS anti-glare micro-edge WLED-backlit, 250 nits, 45% NTSC (1920 x 1080)
- Graphics: Intel UHD Graphics
- Operating System & Pre-installed Software: Pre-loaded Windows 10 Home with lifetime validity, FREE Upgrade to Windows 11* (when available, refer product description for more details) | Microsoft Office Home & Student 2019
- Free upgrade to Windows 11 when available* Disclaimer-*The Windows 11 upgrade will be delivered late 2021 into 2022. Timing varies by device. Certain features require specific hardware.

→ Cores

→ Storage/ROM

→ RAM / Memory

→ Operating System

💡 How do you buy a laptop / mobile



Style name: 4GB

4GB

6GB

Brand	Redmi
Model Name	Redmi 11 Prime 5G
Network Service Provider	Unlocked for All Carriers
OS	MIUI 13
Cellular Technology	5G

About this item

- Processor: MediaTek Dimensity 700 with 5G, 7nm Octa-core processor Up to 2.2GHz
- Display: 90Hz FHD+(1080x2400) AdaptiveSync Display; 16.71centimeters; 20:9 aspect ratio
- Camera: 50MP AI Dual camera | 8MP Front camera
- Memory, Storage & SIM: 4GB RAM 64GB UFS 2.2 storage expandable up to 512GB with dedicated SD card slot | Dual SIM (nano+nano) dual standby (5G+5G)
- Battery: 5000 mAh large battery with 18W fast charging support and 22.5W fast charger in-box with Type-C connectivity

› See more product details

Cores

Storage/ROM

RAM / Memory

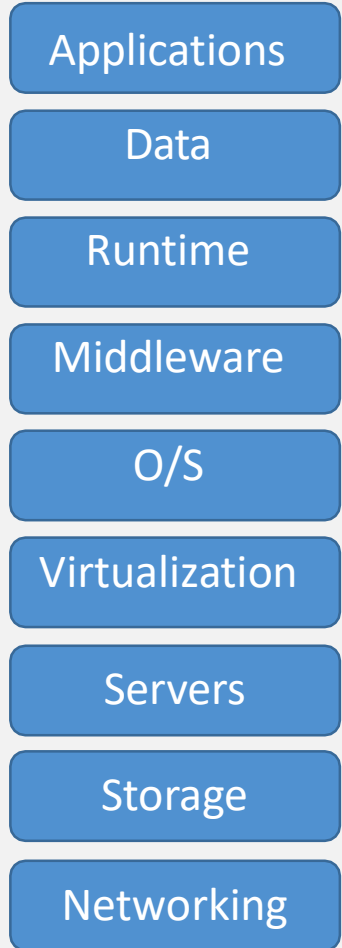


Types of Cloud Computing:

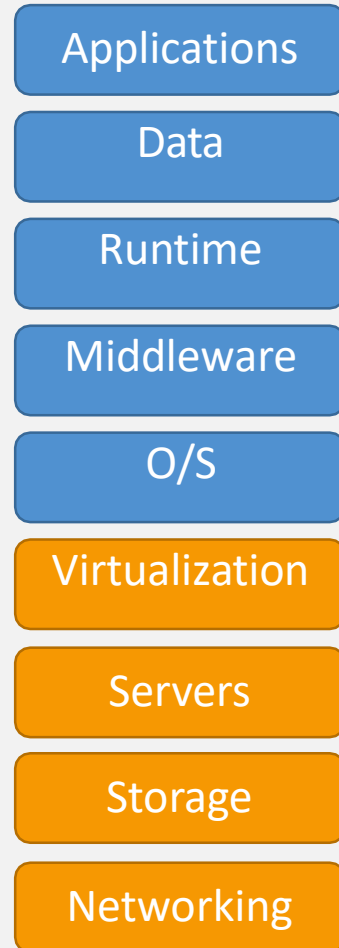
- **Infrastructure as a Service (IaaS)**
 - Similar to on-premises infrastructure
 - Highest level of flexibility
 - Ex: EC2
- **Platform as a Service (PaaS)**
 - No need to maintain infrastructure
 - Focus on the deployment and management of your applications
 - Ex: Elastic Beanstalk
- **Software as a Service (SaaS)**
 - No need to manage both infra and software/application
 - Ex: DynamoDB, Zoom, Google meet



On-premises



IaaS



PaaS



SaaS

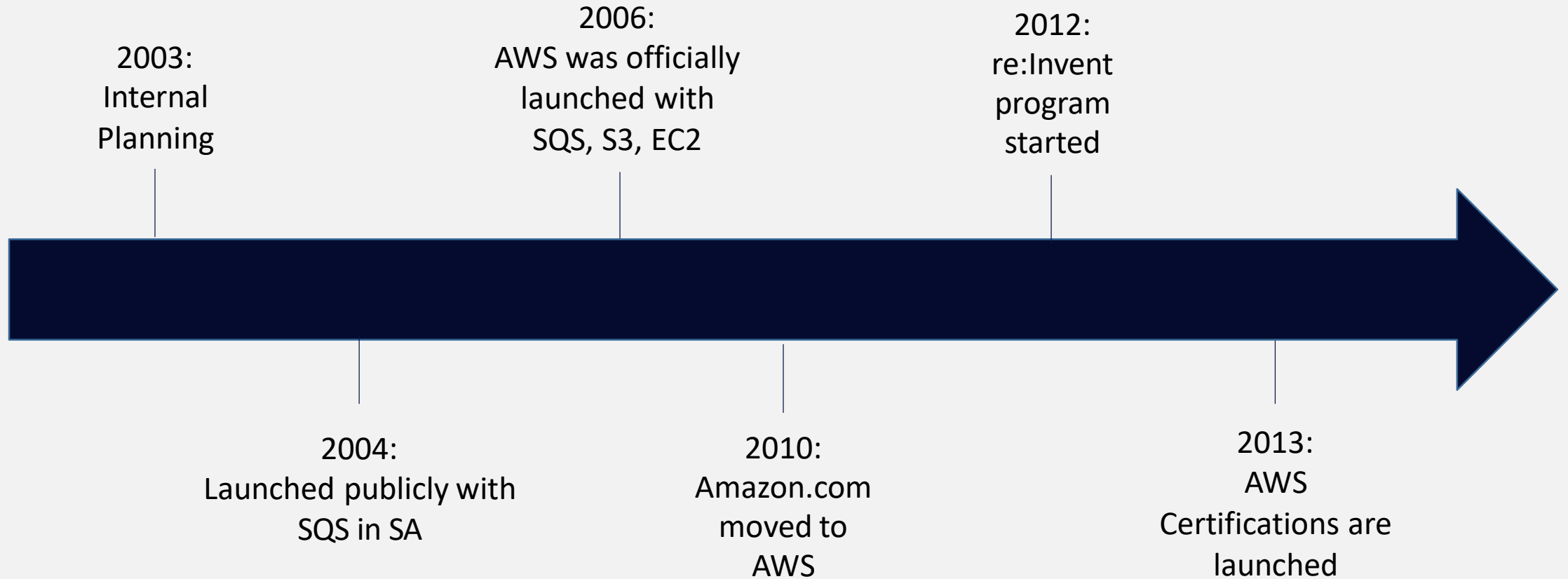




Pricing model:

- **Pay-as-you-go**
- **Compute**
 - Pay for compute time
 - 1 second – Linux
 - 1 hour – Windows
- **Storage**
 - Pay for the data stored
- **Data Transfer**
 - **DataIn** is free

AWS Cloud History



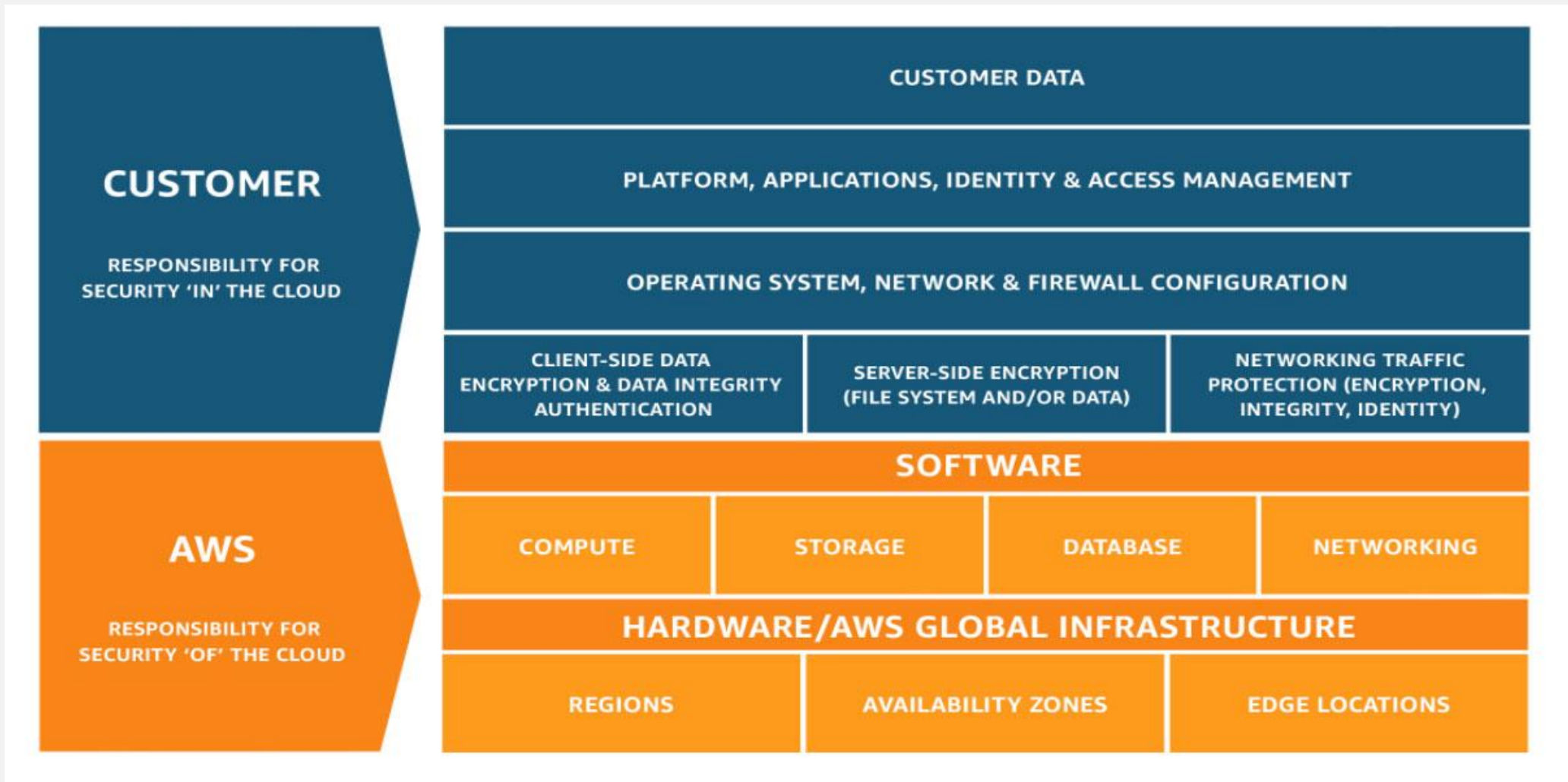
AWS is a cloud leader

- AWS Named as a Leader in the 2022 Gartner Cloud Infrastructure & Platform Services (CIPS) Magic Quadrant for the 12th Consecutive Year
- Ref: [Click here](#)

Figure 1: Magic Quadrant for Cloud Infrastructure and Platform Services



AWS Shared Responsibility Model



Ref: <https://aws.amazon.com/compliance/shared-responsibility-model/>



Hands on: AWS Account creation



Explore Free Tier products with a new AWS account.

To learn more, visit aws.amazon.com/free.



Sign up for AWS

Root user email address

Used for account recovery and some administrative functions

AWS account name

Choose a name for your account. You can change this name in your account settings after you sign up.

Verify email address

OR

3

Sign in to an existing AWS account



Explore Free Tier products with a new AWS account.

To learn more, visit aws.amazon.com/free.



Sign up for AWS

Confirm you are you

Making sure you are secure -- it's what we do.

We sent an email with a verification code to rakeshtaninki1@gmail.com. (not you?)

Enter it below to confirm your email.

Verification code

Verify

Resend code 4

Didn't get the code?

- Codes can take up to 5 minutes to arrive.
- Check your spam folder.



Explore Free Tier products with a new AWS account.

To learn more, visit aws.amazon.com/free.



Sign up for AWS

Create your password

✓

It's you! Your email address has been successfully verified.

✕

Your password provides you with sign in access to AWS, so it's important we get it right.

Root user password

Confirm root user password

Continue (step 1 of 5)

OR 5

Sign in to an existing AWS account



Free Tier offers

All AWS accounts can explore 3 different types of free offers, depending on the product used.



Always free
Never expires



12 months free
Start from initial sign-up date



Trials
Start from service activation date

Sign up for AWS

Contact Information

How do you plan to use AWS?

- ☐ Business - for your work, school, or organization
- ☒ Personal - for your own projects

Who should we contact about this account?

Full Name

Rakesh Taninki

Phone Number

+91 [Redacted]

Country or Region

India ▼

Address

[Redacted]

Apartment, suite, unit, building, floor, etc.

City

Address

Apartment, suite, unit, building, floor, etc.

City

State, Province, or Region

Postal Code

Customers with an Indian contact address are served by Amazon Web Services India Private Limited, the local seller for AWS services in India.


☒ I have read and agree to the terms of the [AWS Customer Agreement](#).

Continue (step 2 of 5)

6



Secure verification

 We will not charge you for usage below AWS Free Tier limits. We may temporarily hold up to \$1 USD (or an equivalent amount in local currency) as a pending transaction for 3-5 days to verify your identity.



Sign up for AWS

**** Make sure your card is allowed for International transactions ****

Billing Information

Credit or Debit card number



AWS accepts all major credit and debit cards. To learn more about payment options, review our [FAQ](#)

Expiration date

Cardholder's name

CVV

Billing address

☒ Use my contact address



CVV

Billing address

☒ Use my contact address

☐ Use a new address

Do you have a PAN?

Permanent Account Number (PAN) is a ten-digit alphanumeric number issued by the Indian Income Tax Department. This 10-digit number is printed on the front of your PAN card.

☐ Yes

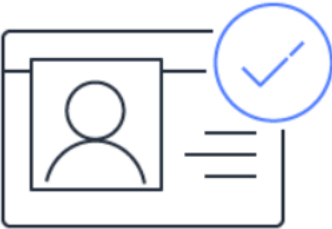
☒ No

You can go on the Tax Settings Page on Billing and Cost Management Console to update your PAN information.

Verify and Continue (step 3 of 5)

You might be redirected to your bank's website to authorize the verification charge.

7



Sign up for AWS

Confirm your identity

Before you can use your AWS account, you must verify your phone number. When you continue, the AWS automated system will contact you with a verification code.

How should we send you the verification code?

- ☒ Text message (SMS)
- ☐ Voice call

Country or region code

India (+91)

Mobile phone number

Security check

6ybg8z

Type the characters as shown above

6ybg8z

Send SMS (step 4 of 5)



Sign up for AWS

Confirm your identity

Verify code

Continue (step 4 of 5)

Having trouble? Sometimes it takes up to 10 minutes to retrieve a verification code. If it's been longer than that, [return to the previous page](#) and try again.

9




Sign up for AWS

Select a support plan

Choose a support plan for your business or personal account. [Compare plans and pricing examples](#). You can change your plan anytime in the AWS Management Console.


☒ **Basic support - Free**

- Recommended for new users just getting started with AWS
- 24x7 self-service access to AWS resources
- For account and billing issues only
- Access to Personal Health Dashboard & Trusted Advisor




☐ **Developer support - From \$29/month**

- Recommended for developers experimenting with AWS
- Email access to AWS Support during business hours
- 12 (business)-hour response times



☐ **Business support - From \$100/month**

- Recommended for running production workloads on AWS
- 24x7 tech support via email, phone, and chat
- 1-hour response times
- Full set of Trusted Advisor best-practice recommendations





Need Enterprise level support?
From \$15,000 a month you will receive 15-minute response times and concierge-style experience with an assigned Technical Account Manager. [Learn more](#)

Complete sign up



Congratulations

Thank you for signing up for AWS.

We are activating your account, which should only take a few minutes. You will receive an email when this is complete.

[Go to the AWS Management Console](#)

[Sign up for another account](#) or [contact sales](#).



1 of 4



Your AWS Account is Ready - Get Started Now Inbox x



no-reply-aws@amazon.com

to me ▼

18:05 (2 minutes ago)



Welcome to Amazon Web Services,

You can get started by accessing the [AWS Management Console](#), launching [an Amazon EC2 Instance](#), or exploring popular software optimized for Amazon EC2 on [AWS Marketplace](#). For the next 12 months, you will have free access to compute, storage, database, and application services. Learn more by visiting our [Free Tier](#) page.

Getting Started Resources

[Step-by-Step Instructions on How to Deploy Your Application](#)

[Quick Start Tutorials for Developers](#)

[Tool Downloads](#)

[Billing Alerts](#)

Account Management & Credentials

If you interact with AWS programmatically using the SDKs, Command Line Interface (CLI), or APIs, you must provide access keys to verify who you are and whether you have permission to access the resources you're requesting. To manage your account's access keys, go to the [Security Credentials](#) page in the AWS Management Console. If you want to allow other users to access resources in your account, use the [Identity and Access Management \(IAM\) console](#) to create credentials and assign permissions to



Tour: AWS Account and Services



Free tier: explore the limits



Hands on: AWS root account best practices



Best practices

1. Setup MFA – hands on
2. Never share your root account password or access keys
3. Use strong password policy
4. Create users to perform tasks
5. Don't create access keys for the root user



Hands on: Setup Budget Alarm





Tasks for today

1. Setup your AWS account
2. Enable MFA on root account
3. Configure billing alarm/ budget on your account



Thank you, will meet in tomorrow's session