

Action plan for AWS Project Class including LinkedIn, Naukri profile creation, and resume preparation

Weekend 1: Introduction to AWS & Core Services

Objective:

Get familiar with AWS, set up an account, and explore core AWS services like EC2, S3, IAM, and VPC.

Action Plan:

1. Study & Learn:

- **AWS Overview:** Introduction to cloud computing and AWS services.
- **Core Services:**
 - **EC2:** Launch instances, configure security groups, and assign Elastic IPs.
 - **S3:** Set up object storage and static website hosting.
 - **IAM:** Create users, groups, and roles; set up access policies.
 - **VPC:** Understand networking basics like subnets and route tables.

2. Hands-on Project 1: Deploy a Web Server on EC2

- **Task:**
 - Launch an EC2 instance and install a web server (Apache or Nginx).
 - Configure security groups to allow HTTP/HTTPS traffic.
 - Assign an Elastic IP for global accessibility.
- **Skills Covered:** EC2, Security Groups, Elastic IPs.

3. Preliminary Resume Draft:

- Start adding AWS services to your resume.
- Include this project under "Technical Projects."

Weekend Outcome:

- Basic understanding of AWS services and a functional web server deployed on EC2.
- Initial draft of AWS-focused resume.

Weekend 2: AWS Storage & Databases

Objective:

Learn about AWS storage and databases, including S3, Glacier, RDS, and DynamoDB.

Action Plan:

1. Study & Learn:

- **S3 & Glacier:** Understand object storage, versioning, encryption, and archival storage.
- **RDS:** Launch and configure a relational database (MySQL, PostgreSQL).
- **DynamoDB:** Learn NoSQL database management and create tables.

2. Hands-on Project 2: Scalable File Storage Solution

- **Task:**
 - Set up an S3 bucket for file storage and enable static website hosting.
 - Use CloudFront for faster content delivery.
 - Optionally, integrate SQS for asynchronous file upload management.
- **Skills Covered:** S3, CloudFront, DynamoDB, RDS.

3. Resume Update:

- Add AWS storage and database skills to your resume.
- Include measurable outcomes (e.g., "Reduced file access latency by 40% using CloudFront").

Weekend Outcome:

- A scalable file storage solution with S3 and CloudFront.
- Enhanced resume with AWS storage and database expertise.

Weekend 3: Security & Identity Management

Objective:

Secure AWS resources using IAM, KMS, and MFA, and understand AWS best practices for security.

Action Plan:

1. Study & Learn:

- **IAM:** Create and manage users, roles, and policies.
- **MFA:** Enable Multi-Factor Authentication for enhanced account security.
- **KMS:** Encrypt data using the Key Management Service.

2. Hands-on Project 3: Secure AWS Environment

- **Task:**
 - Implement IAM roles and policies to manage access.
 - Enable MFA for the root account and critical IAM users.
 - Use KMS to encrypt sensitive data in S3 or RDS.
- **Skills Covered:** IAM, MFA, KMS.

3. Resume Update:

- Add security-related skills to your resume (e.g., "Configured IAM policies for secure access to AWS resources").

Weekend Outcome:

- A secure AWS environment with IAM policies and MFA.
- Resume updated with security and identity management skills.

Weekend 4: High Availability & Scalability

Objective:

Design a highly available and scalable application using ELB, Auto Scaling, and CloudWatch.

Action Plan:

1. Study & Learn:

- **ELB:** Distribute traffic across multiple EC2 instances.
- **Auto Scaling:** Configure policies for scaling instances based on demand.
- **CloudWatch:** Set up alarms and monitor AWS resources.

2. Hands-on Project 4: Highly Available Web Application

- **Task:**
 - Deploy a web application with ELB and Auto Scaling for high availability.
 - Use CloudWatch to monitor instance health and set alarms for resource usage.
- **Skills Covered:** ELB, Auto Scaling, CloudWatch.

3. Resume Update:

- Highlight expertise in designing scalable and highly available solutions.

Weekend Outcome:

- A highly available application using ELB, Auto Scaling, and CloudWatch.
- Resume updated with scalability and monitoring skills.

Weekend 5: Final Project, Cost Optimization, Resume & Profile Prep

Objective:

Bring all AWS skills together in a final project, focus on cost optimization, and prepare for certification and job applications.

Action Plan:

1. Study & Learn:

- **AWS Cost Management:** Learn to use AWS Cost Explorer and Trusted Advisor.
- **Certification Review:** Revise key concepts for the AWS Certified Solutions Architect – Associate exam.

2. Hands-on Project 5: End-to-End AWS Solution Deployment

- **Task:**
 - Build a complete solution using EC2, S3, RDS, IAM, ELB, Auto Scaling, and CloudWatch.
 - Ensure the solution is cost-optimized and secure.
- **Skills Covered:** Full AWS service stack, cost optimization, solution design.

3. Resume & Profile Prep:

- **Resume:**
 - Finalize your AWS Solutions Architect resume with all 5 projects.
 - Highlight key skills and measurable project outcomes.
- **LinkedIn Profile:**
 - Update the headline (e.g., "AWS Solution Architect | Cloud Engineer").
 - Add detailed project descriptions in the experience section.
 - Showcase AWS certifications and endorse skills.
- **Naukri Profile:**
 - Create a professional summary (e.g., "AWS-certified Solution Architect with expertise in cloud infrastructure and scalable solutions").
 - Use relevant keywords for better visibility (e.g., *AWS, EC2, S3, Auto Scaling, CloudWatch*).
 - Upload the updated resume.

4. Interview Prep:

- Practice common AWS interview questions.
- Prepare to explain your projects with focus on challenges and outcomes.

Weekend Outcome:

- A complete end-to-end AWS solution deployment.
- Professional resume, LinkedIn profile, and Naukri profile ready for job applications.
- Confidence to clear AWS Solution Architect interviews and certification.

Summary of Deliverables

1. **Weekend 1:** EC2 setup and web server deployment.
2. **Weekend 2:** Scalable file storage solution using S3, CloudFront, and databases.
3. **Weekend 3:** Secure AWS environment with IAM, MFA, and KMS.
4. **Weekend 4:** Highly available application with ELB, Auto Scaling, and CloudWatch.
5. **Weekend 5:** End-to-end AWS solution, cost optimization, and professional branding (resume, LinkedIn, Naukri).

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