**List of concepts aware in python:**

* conditional statmts
* control stmts
* collection data types like string, list, tuple and dict
* functions
* decorators
* class and object nothing oops.
* Inheritance
* Polymorphism
* Abstract class and methods
* Exception handling

**Technical Interview Preparation:**

1. **Introduction**

My name is Sivaramakrishna, and I am from Hyderabad, Telangana. I completed my graduation in 2021, and since then, I have been working as an AWS Python Developer at DXC Technology. I have a strong background in software development, with over 3+ years of industry experience.

I have hands-on experience with various technologies, including Python, AWS, Shell Script, ServiceNow and several DevOps tools like Git, Jenkins, Docker, ECR, and more. I have worked on different automation projects as both a junior and senior developer, delivering various sets of epics to Resolution Life US client.

Additionally, we have published a few blog posts on the AWS APN site portal and worked on project success stories for different projects. In my projects, we utilized various AWS services such as Lambda, Step Functions, CloudFormation Templates (CFT), CloudWatch, and many others.

To further my career growth, I have completed a few AWS certifications and earned the Lean Six Sigma Yellow Belt for my completed projects.

1. **Tell me about project experience.**

Throughout my career, I have worked on various projects, but I would like to highlight a few key projects that I consider major milestones:

**1. AWS Zero Touch Patching (It is about performing the patching to instances automatically)**

In this project, I developed a fully automated patching solution for EC2 instances using AWS services. The patching is scheduled monthly based on maintenance tags assigned to instances. I implemented AWS Lambda functions, orchestrated through AWS Step Functions, to automate the patching process via AWS Systems Manager (utilizing AWS-RunPatchBaseline, AWS-RunPowerShellScript, and AWS-RunShellScript). Additionally, I integrated this system with ServiceNow to generate and manage Change Requests automatically for patching activities, streamlining the entire process.

* **Key technologies**: AWS Lambda, AWS Step Functions, AWS Systems Manager, ServiceNow integration, EC2.
* **Impact**: Reduced manual effort in patching instances and minimized downtime by automating patch cycles.

**2. Track Changes to Financially Relevant Production Systems (It is about monitoring the changes in aws services)**

I developed a monitoring solution to track changes in AWS services for production systems that handle financially relevant data. This solution leveraged AWS Config and AWS CloudTrail to monitor changes, including details on what was changed, by whom, and when. I also implemented an automated reporting process where the captured data is stored in S3, and weekly CSV reports are generated and shared with key stakeholders.

* **Key technologies**: AWS Config, AWS CloudTrail, S3, Lambda.
* **Impact**: Enhanced visibility into production changes, enabling compliance and audit readiness for financial systems.

**3. Scan S3 Using ClamAV (It is about scanning the objects in s3 bucket during upload)**

I designed and implemented a security solution that scans objects uploaded to S3 buckets using ClamAV antivirus. This solution uses AWS Lambda containers with Elastic File System (EFS) integration to scan the objects. Objects identified as infected are automatically quarantined, and notifications are triggered. The buckets are tagged for scanning, allowing flexibility in applying this solution across various environments.

* **Key technologies**: S3, AWS Lambda with EFS, ClamAV, SNS notifications.
* **Impact**: Improved security posture by ensuring that files stored in S3 are virus-free, preventing potential risks from malware or infected files.

**Roles and Responsibilities in your project**

* Collaborated with clients to gather requirements and designed the solutions based on their business needs.
* Led the design and development of solutions with the team in the client environment, ensuring alignment with client objectives.
* Actively involved in the development, testing, and deployment phases, ensuring seamless delivery of solutions.
* Managed daily and monthly monitoring of system loads, troubleshooting, and resolving defects.
* Developed Lambda function scripts using Python to automate various operational tasks.
* Collaborated with AWS CloudOps teams to meet automation requirements, ensuring the smooth operation of cloud services.
* Worked closely with the AWS Engineering Team to integrate and align custom solutions with AWS offerings.
* Developed and deployed infrastructure using AWS CloudFormation templates, ensuring infrastructure-as-code best practices.
* Led the development of AWS automation solutions, utilizing services like Lambda, Systems Manager, SNS, SES, S3, CloudWatch, Amazon EventBridge, DynamoDB, EC2, IAM, and Secrets Manager.

**Provide few aws services which are familiar.**

AWS Lambda, Step Function, System Manager, SNS, SES, S3, CloudWatch, Amazon Event Bridge, DynamoDB, EC2, IAM, Secret Manager, etc

**What are some of your strengths and weaknesses?**

Sure, one of my strengths is strong problem-solving ability. I have honed this skill through working on several projects. On the flip side, I acknowledge that I can be overly critical of my work at times, which I'm actively working on. However, I believe this self-critical nature also ensures that I constantly strive for improvement and excellence in my tasks.

1. **Why do you want to join our company?**

Your company offers great opportunities for growth, and its innovative environment aligns with my career goals.

1. **What made you leave your current job and what's different in our company?**

I’m seeking more challenging projects and opportunities for growth, which I see your company offering.

1. **How would you handle a failure, if yes, how you overcome that?**

I analyze the root cause of failure, learn from it, and take corrective actions to prevent recurrence.

1. **How have you handled some difficult task in your project?**

I break down the task, prioritize, collaborate with the team, and persist until the task is completed.

1. **What's the most difficult client you have handled?**

I handled a difficult client by actively listening, addressing concerns, and providing timely solutions.

1. **Have your actions anytime benefited your organization?**

Yes, my automation of processes and performance optimizations led to cost savings and improved efficiency.

1. **Strengths?**

Ability to quickly adapt to new technologies and tools.

Proficient in automating processes to increase efficiency and reduce errors.

1. **Weakness?**

Occasionally, I find it difficult to say "no" to additional work, even when the schedule is tight.

1. **Why did you leave your last job?**

I left my previous job to pursue new challenges and opportunities for professional growth. I believe that stepping out of my comfort zone and exploring diverse roles will contribute to my overall career development.

1. **why should we hire you?**

You should hire me because I bring strong expertise in Python, AWS cloud services, and designing scalable, efficient solutions. My adaptability, problem-solving skills, and ability to collaborate with cross-functional teams will make an immediate positive impact on your organization.