Set Up and Monitor a WordPress Instance for Your Organization

Actions Taken:

1. Set up EC2 Instances with WordPress:

   used CloudFormation, a powerful infrastructure provisioning tool, to automate the creation of EC2 instances pre-configured with WordPress. This ensures a consistent and efficient deployment process, saving time and effort.

2. Created Amazon Machine Image (AMI):

   Once WordPress instance is perfectly configured, captured a snapshot (AMI) of it. This allows to quickly launch new instances in the future based on this proven template, eliminating the need for manual configuration each time.

3. Configured Auto Scaling Groups:

   For enhanced scalability, you set up Auto Scaling Groups. These groups can automatically manage WordPress instances based on traffic demands. During high traffic periods, they can create new instances from AMI, ensuring your website remains responsive. During low traffic, they can shut down extra instances, optimizing resource usage and costs.

4. Implemented Automatic Instance Management:

   To further optimize costs, implemented automatic stop and start functionality for WordPress instances using AWS Systems Manager Automation. This allows to power down instances during off-peak hours when they're not in use minimizing costs.

5. Enabled Instance Monitoring with Route 53:

   Implemented Route 53's Availability Monitoring feature. This feature constantly checking the health and availability of WordPress instance running on an EC2 instance. This monitoring keeps informed of any potential problems, allowing to address them swiftly before they impact r website's uptime and user experience.

Conclusion:

- Enhanced Scalability: Auto Scaling Groups ensure website can handle fluctuating traffic demands automatically.
- Optimized Costs: Automatic instance management minimizes resource usage and associated costs.
- Improved Reliability: Proactive monitoring allows for early detection and resolution of potential issues, minimizing downtime