

TASK 3 : Infrastructure as Code (IaC) with Terraform

- **Objective:** Provision a local Docker container using Terraform.
- **Tools:** Terraform, Docker
- **Deliverables:** main.tf, execution logs
- **Hints:**
 - a. Use Docker provider in Terraform.
 - b. Write Terraform code to create a container.
 - c. Run terraform init, apply.
 - d. Destroy infra using terraform destroy.
 - e. Use terraform plan before apply.
 - f. Check terraform state command.
- **Outcome:** You'll understand provisioning using IaC.

Interview Questions:

1. What is IaC?
2. How does Terraform work?
3. What is Terraform state file?
4. Difference between apply and plan.
5. What are Terraform providers?
6. What is resource dependency?
7. How do you handle secret variables?
8. Explain the benefits of Terraform.

📌 Task Submission Guidelines

- ⏳ **Time Window:**

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10:00 PM.

- 🔎 **Self-Research Allowed:**

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

- 🛠️ **Debug Yourself:**

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

- 💰 **No Paid Tools:**

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

- 📁 **GitHub Submission:**

Create a new GitHub repository for each task.

Add everything you used for the task – code, datasets, screenshots (if any), and a short README.md explaining what you did.

⬆️ Submit Here:

After completing the task, paste your GitHub repo link and submit it using the link below:

SUBMISSION LINK

Best
of
luck

