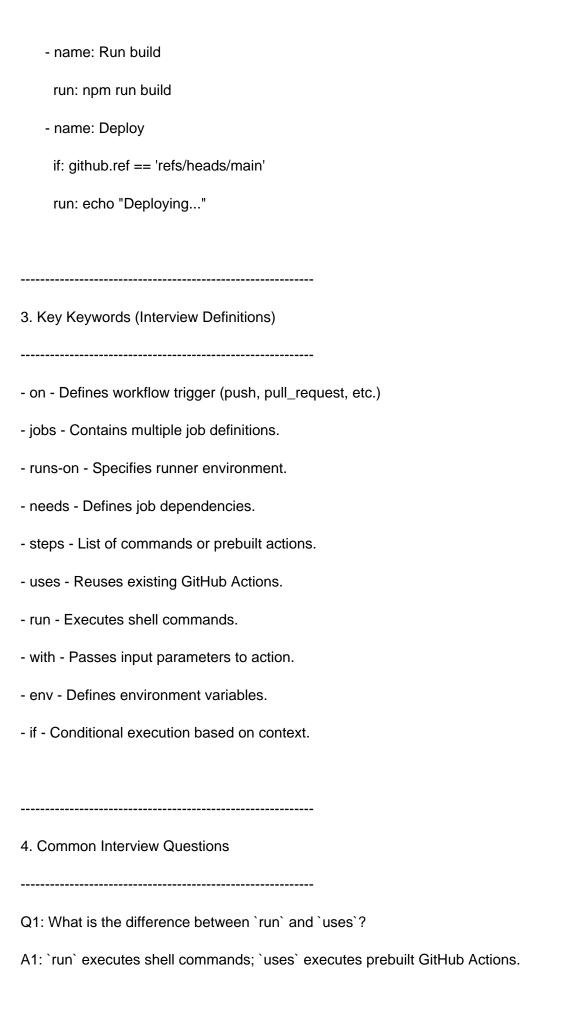
GitHub Actions YAML Roadmap (Interview-Focused)

1. Core Concepts for Interviews
- GitHub Actions allows CI/CD automation using YAML syntax.
- Workflow file stored in: .github/workflows/ <filename>.yml</filename>
- Workflow = triggers + jobs + steps + actions.
- Each job runs on a runner (VM/container).
2. YAML Workflow Template
name: CI Pipeline
on:
push:
branches: [main]
jobs:
build:
runs-on: ubuntu-latest
steps:
- name: Checkout code
uses: actions/checkout@v4
- name: Setup Node
uses: actions/setup-node@v3
with:
node-version: '18'



Q2: What is the purpose of `runs-on`?

A2. It specifies the type of further machine (Obuntu, Windows, etc.).
Q3: Can multiple jobs run in parallel?
A3: Yes, unless controlled by `needs:` dependency.
Q4: What are reusable workflows?
A4: Workflows stored in one repo that can be called by others using `workflow_call`.
Q5: How can you manually trigger a workflow?
A5: Using `on: workflow_dispatch`.
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5. Pro Interview Tip
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- Always emphasize your understanding of CI/CD flow.
- Mention you can build workflows that lint, test, build, and deploy apps.
- Know how to cache dependencies using actions/cache.
- Be ready to write a small sample YAML on the whiteboard.
6. Mini Challenge
Create a workflow with:
- Trigger: push on "main"
- Job 1: build (runs-on ubuntu-latest)
- Job 2: test (depends on build)
- Each job prints a message