YAML File Explanation

- 1. What is YAML?
- Stands for "YAML Ain't Markup Language"
- A human-readable data-serialization language
- Commonly used for configuration files (e.g., Kubernetes, Ansible, Docker Compose, CI/CD tools)
- 2. Basic Syntax Rules
- Uses indentation (spaces only no tabs)
- Key-value pairs
- Lists with `-` indicator
- Comments start with `#`
- Case-sensitive
- 3. Data Types
- Scalars: strings, numbers, booleans
- Lists: item1, item2
- Dictionaries/Maps: key: value
- Nested structures: Combining maps and lists
- 4. Example 1: Simple Key-Value

name: Akshat

age: 30

married: true

5. Example 2: Lists

fruits:

- Apple - Banana - Orange 6. Example 3: Dictionary in a List employees: - name: Alice role: Developer - name: Bob role: Tester 7. Example 4: List in a Dictionary school: name: Greenwood classes: - Math - Science 8. Anchors & Aliases defaults: &defaults timeout: 30 retries: 5 production: <<: *defaults timeout: 60

9. Multiline Stringsdescription: |This is a paragraphwith line breaks.

notes: >

This is a paragraph with spaces only.

10. Common Use Cases

- Kubernetes manifests
- Docker Compose
- GitHub Actions workflows
- Ansible playbooks
- CI/CD pipeline configurations