LESSON 12

site.yml

```
- hosts: web
  serial: 1
  roles: [school_app]
```

YAML

Ansible Project

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ANSIBLE & DEVOPS

LESSON 12

Project: Deploy a Web App, and Next Steps

A full multi-tier deployment, rolling updates, AWX and Automation Platform, and your pa

The Project



- Users — https://school.edu
- lb1 — role: haproxy
- web1, web2 — role: nginx + app

01

The Site Playbook

site.yml

```
- hosts: all
  become: true
  roles: [common, firewall]

- hosts: db
  become: true
  roles: [postgres]

- hosts: web
  become: true
  roles: [nginx, school_app]

- hosts: lb
  become: true
  roles: [haproxy]
```

- site.yml applies the common baseline everywhere, then the database, then the web tier, then …
- One command builds the whole environment from empty servers in minutes.

02

Zero-Downtime Rolling Updates

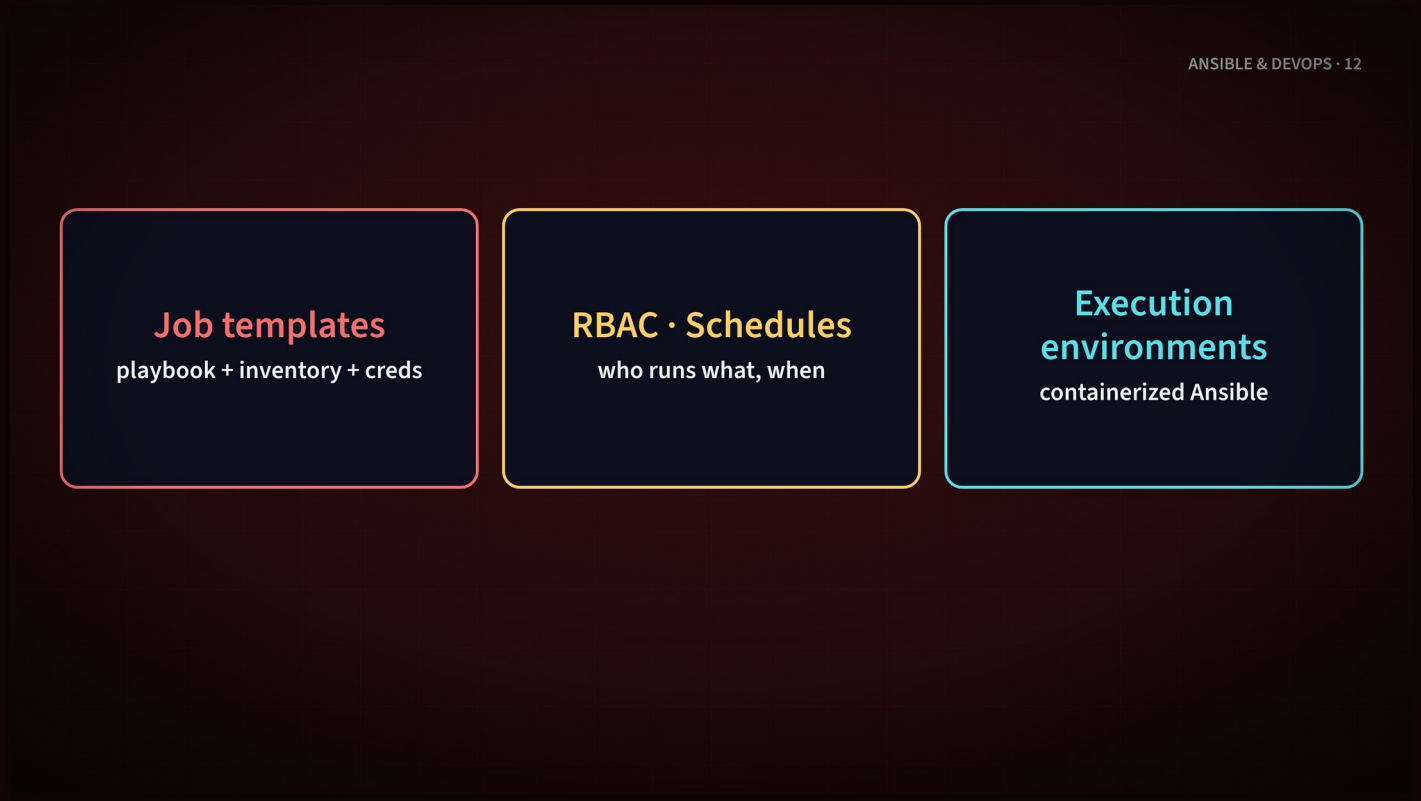
rolling.yml

```yaml
- hosts: web
  serial: 1
  max_fail_percentage: 0
  pre_tasks:
    - name: Drain from load balancer
      community.general.haproxy:
        state: disabled
        host: "{{ inventory_hostname }}"
      delegate_to: lb1
  roles: [school_app]
  post_tasks:
    - name: Wait for health check
      ansible.builtin.uri: { url: "http://{{ inventory_hostname }}/health" }
    - name: Return to load balancer
      community.general.haproxy: { state: enabled, host: "{{ inventory_hostname }}" }
      delegate_to: lb1
```

- serial updates one host at a time. Before each host, delegate_to removes it from the load …
- max_fail_percentage stops the rollout if something goes wrong, so users never see an outage.

03

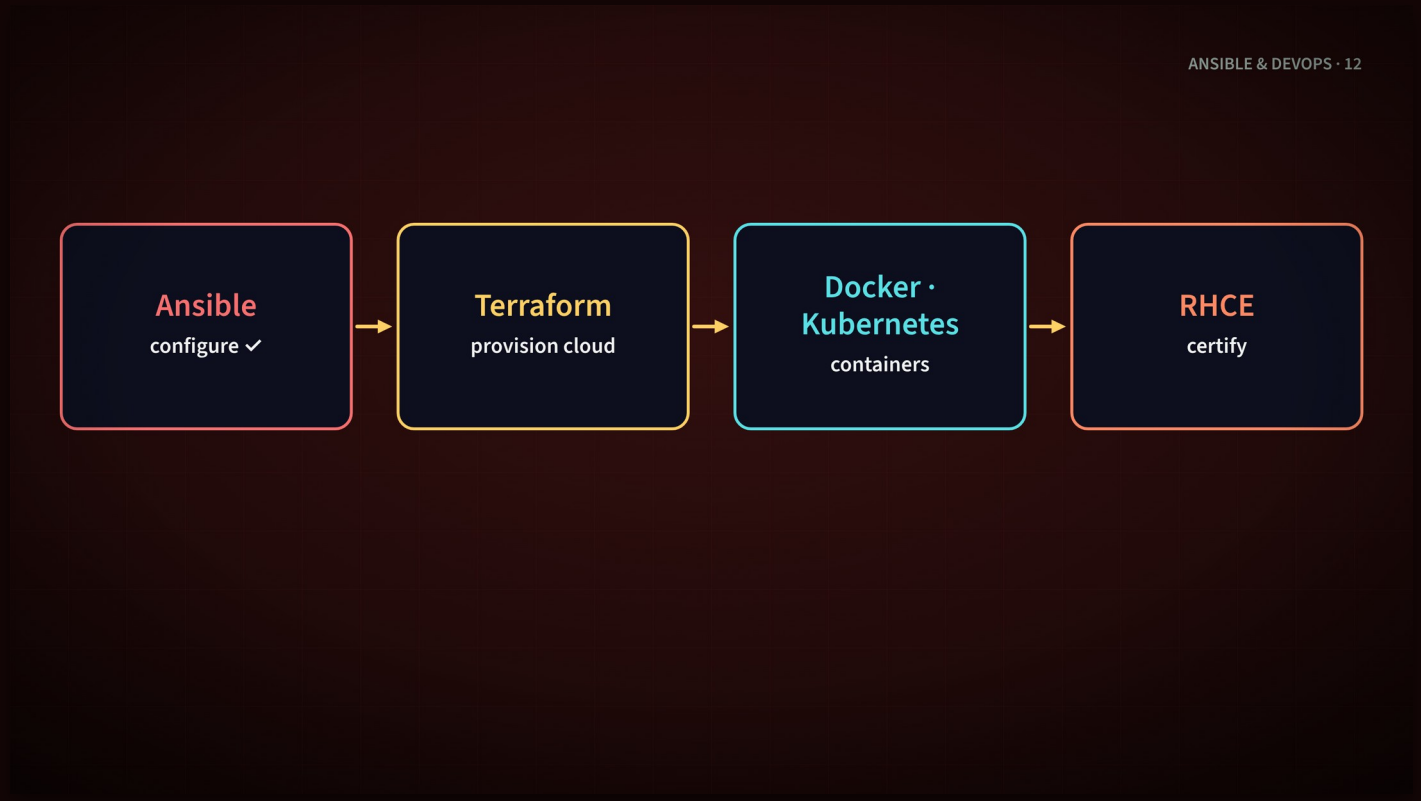
AWX and Ansible Automation Platform



- Job templates — playbook + inventory + creds
- RBAC · Schedules — who runs what, when
- Execution environments — containerized Ansible

04

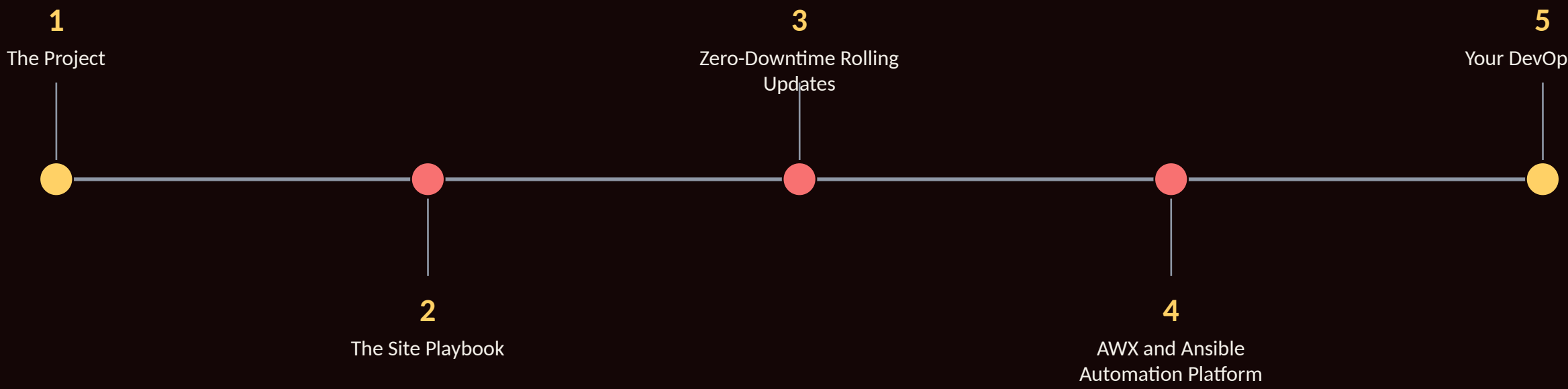
Your DevOps Path



- Ansible — configure ✓
- Terraform — provision cloud
- Docker · Kubernetes — containers

05

Lesson Map


1
The Project
2
The Site Playbook
3
Zero-Downtime Rolling Updates
4
AWX and Ansible Automation Platform
5
Your DevOps Path

Sources and Further Reading





Thank you for watching

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