LESSON 4

site.yml

```
- hosts: web
  become: true
  tasks:
    - ansible.builtin.package:
        name: nginx
```

YAML

First Playbook

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ANSIBLE & DEVOPS

LESSON 4

Your First Playbook

YAML basics, plays and tasks, running playbooks, check and diff modes, reading the outp

YAML Basics

example.yml

```yaml
server:
  name: web1
  ports:
    - 80
    - 443
  enabled: true
  motd: "Welcome: authorized users only"
```

- YAML uses indentation with spaces, never tabs. A dash starts a list item, and key colon …
- Strings rarely need quotes, but quote anything that starts with curly braces or contains a …

01

Plays and Tasks

webserver.yml

```yaml
- name: Configure web servers
  hosts: web
  become: true
  tasks:
    - name: Install nginx
      ansible.builtin.package:
        name: nginx
        state: present

    - name: Start and enable nginx
      ansible.builtin.service:
        name: nginx
        state: started
        enabled: true
```

- A playbook is a list of plays. Each play targets hosts and holds a list of tasks. Each task ...
- Use fully qualified module names like ansible.builtin.package, so it is always clear which ...

02

Running a Playbook

terminal

```
$ ansible-playbook webserver.yml
TASK [Install nginx] ***************************
changed: [web1]
changed: [web2]
TASK [Start and enable nginx] ******************
changed: [web1]
changed: [web2]
PLAY RECAP *************************************
web1 : ok=3 changed=2 failed=0
```

- ansible-playbook runs it. Each task prints ok, changed, skipped or failed for every host. …
- If a task fails on one host, Ansible stops for that host and continues with the others.

03

Check, Diff and Syntax

terminal

```
$ ansible-playbook webserver.yml --syntax-check
$ ansible-playbook webserver.yml --list-hosts
$ ansible-playbook webserver.yml --check --diff
$ ansible-playbook webserver.yml --limit web1 -v
```

- Before touching production, test safely. syntax-check finds YAML mistakes. check mode is a …
- list-tasks and list-hosts preview what will run and where.

04

Multiple Plays

site.yml

```
- name: Common baseline
  ansible.builtin.import_playbook: common.yml

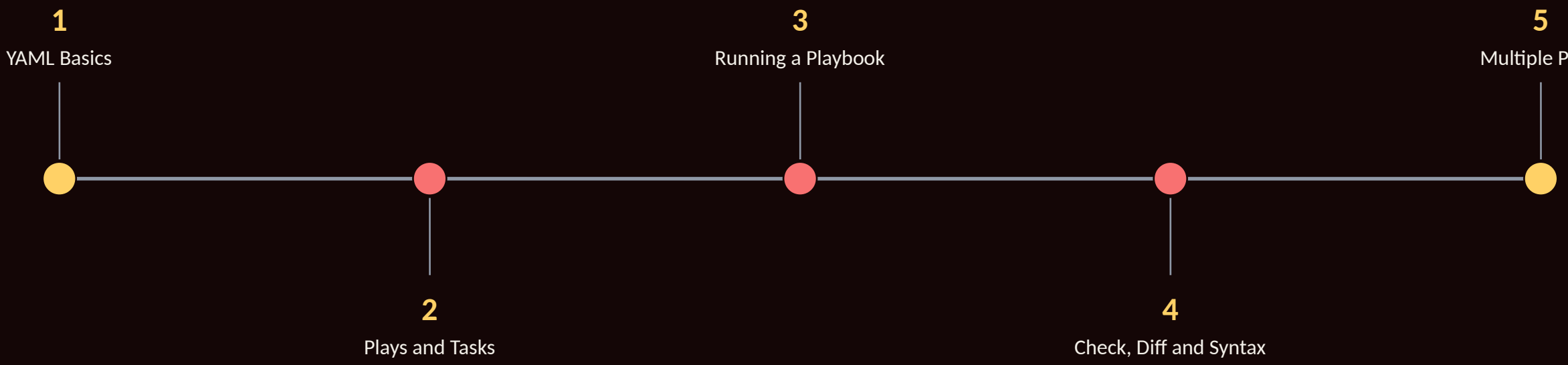
- name: Databases
  ansible.builtin.import_playbook: dbservers.yml

- name: Web tier
  ansible.builtin.import_playbook: webserver.yml
```

- One playbook file can hold several plays for different groups, run in order: first the …
- A site.yml that imports smaller playbooks is a common pattern for a whole environment.

05

Lesson Map


1
YAML Basics
2
Plays and Tasks
3
Running a Playbook
4
Check, Diff and Syntax
5
Multiple Plays

Sources and Further Reading

example.yml

```yaml
server:
  name: web1
  ports:
    - 80
    - 443
  enabled: true
  motd: "Welcome: authorized users only"
```

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terminal

```
$ ansible-playbook webserver.yml
TASK [Install nginx] ***************************
changed: [web1]
changed: [web2]
TASK [Start and enable nginx] ******************
changed: [web1]
changed: [web2]
PLAY RECAP *************************************
web1 : ok=3 changed=2 failed=0
```

Thank you for watching

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