LESSON 1

site.yml

```yaml
- name: Ensure nginx is installed
  ansible.builtin.package:
    name: nginx
    state: present
```

YAML

Welcome to Ansible

Learn it all @MyWebUniversity



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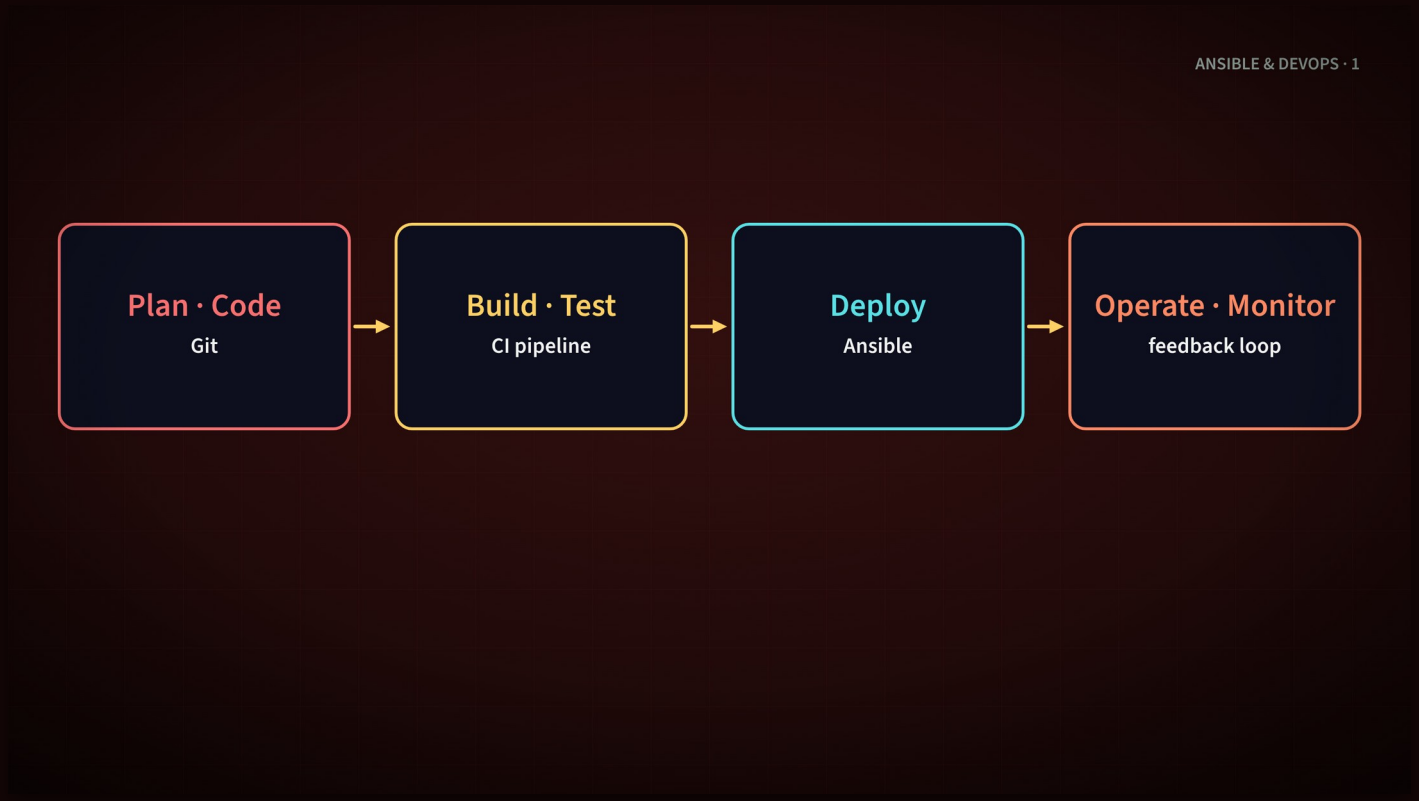
ANSIBLE & DEVOPS

LESSON 1

Welcome to Ansible and DevOps

What DevOps is, infrastructure as code, why Ansible, agentless push and idempotence

What Is DevOps?



- Plan · Code — Git
- Build · Test — CI pipeline
- Deploy — Ansible

01

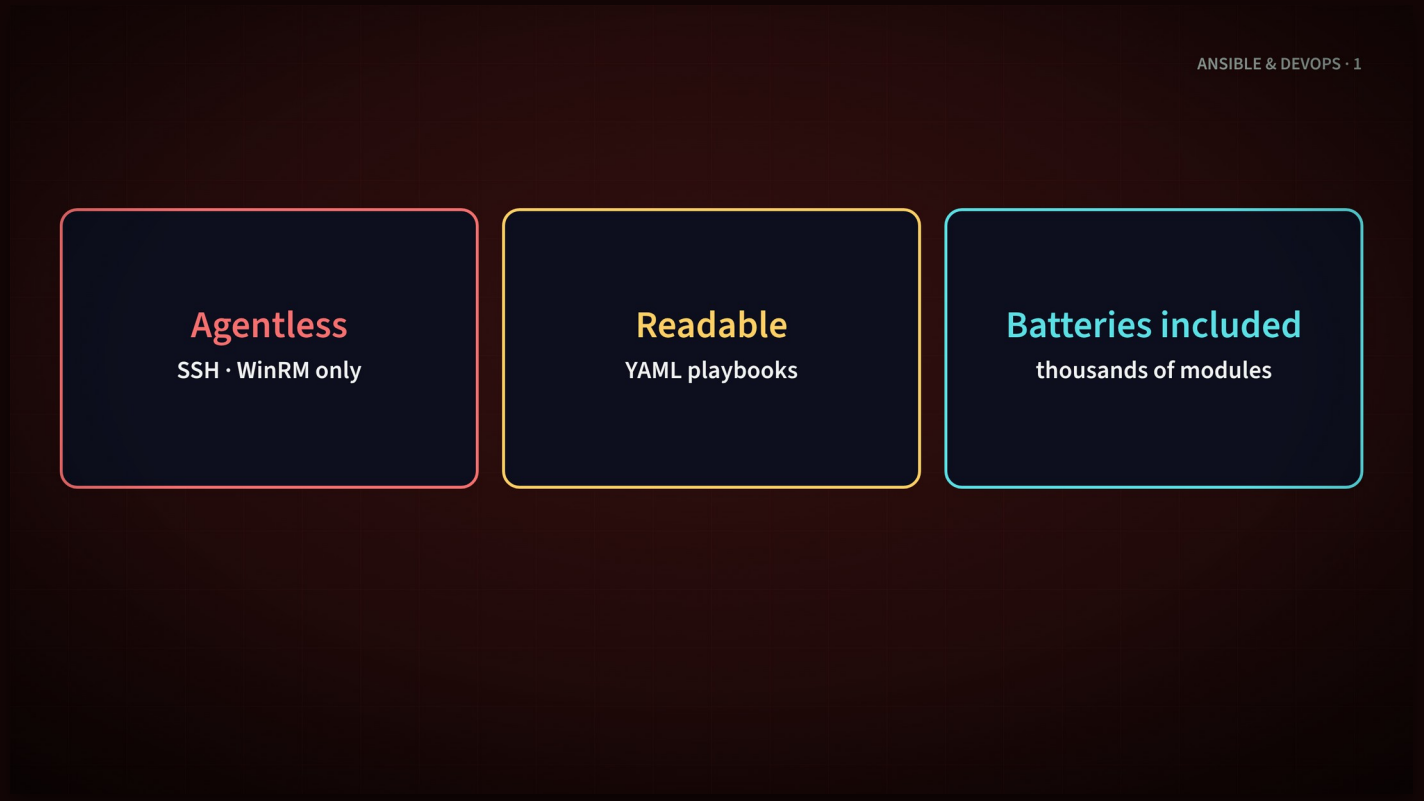
Infrastructure as Code



- Infrastructure as code means servers are configured by files kept in Git, not by clicking …
- Build ten identical servers, or rebuild one after a disaster, by running the same code.

02

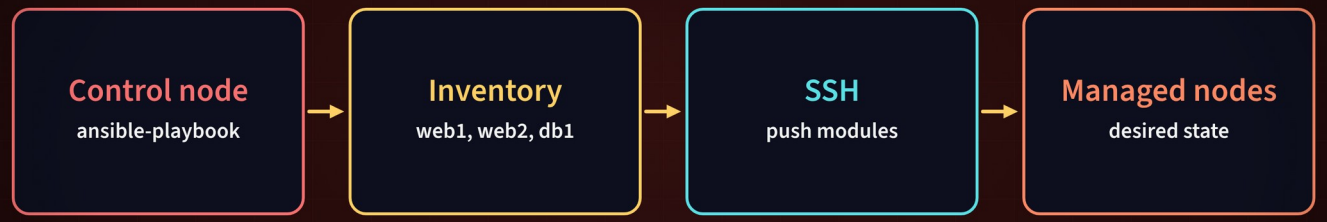
Why Ansible?



- Agentless — SSH · WinRM only
- Readable — YAML playbooks
- Batteries included — thousands of modules

03

How Ansible Works



- Control node — ansible-playbook
- Inventory — web1, web2, db1
- SSH — push modules

04

Idempotence

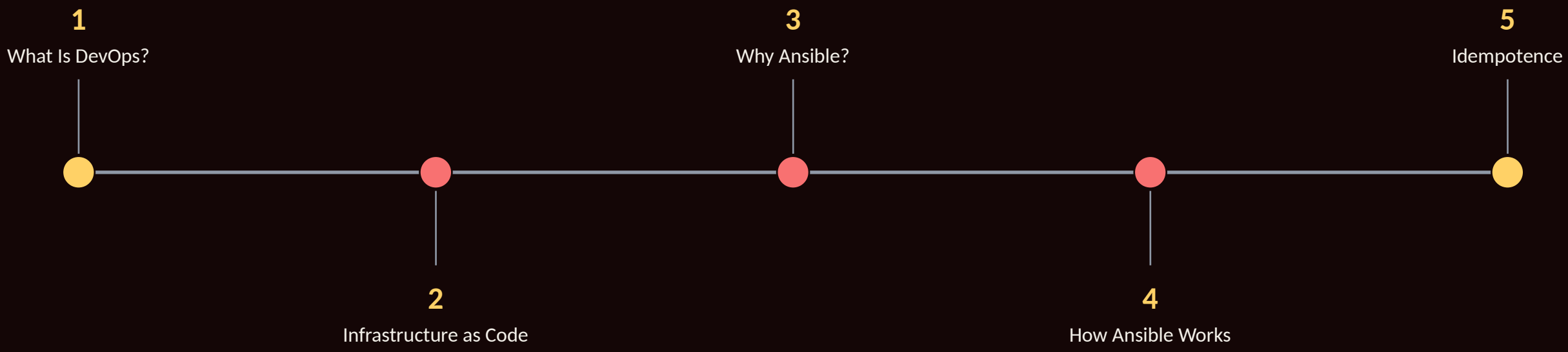
terminal

```
$ ansible-playbook site.yml
PLAY RECAP
web1 : ok=4  changed=3  unreachable=0  failed=0
$ ansible-playbook site.yml
PLAY RECAP
web1 : ok=4  changed=0  unreachable=0  failed=0
```

- Ansible tasks describe the desired state, not the steps. Ensure nginx is installed; ensure …
- Run a playbook once and it makes changes. Run it again and it changes nothing, because …

05

Lesson Map


1
What Is DevOps?
2
Infrastructure as Code
3
Why Ansible?
4
How Ansible Works
5
Idempotence

Sources and Further Reading





Thank you for watching

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