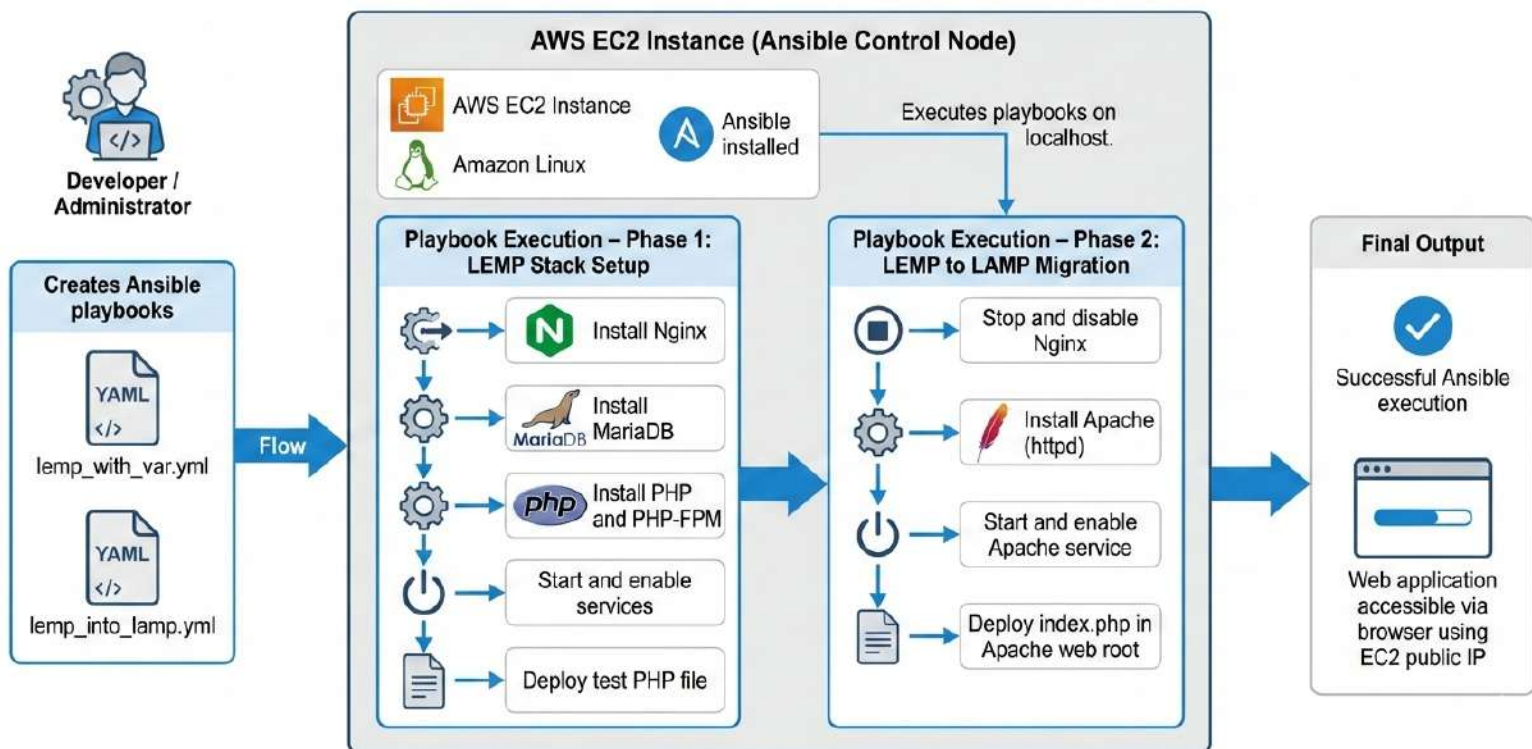


Ansible LEMP to LAMP Migration on AWS EC2



File Edit Selection View Go Run Terminal Help

day 3

EXPLORER

DAY 3

! lemp_into_lamp.yml

! lemp_with_var.yml

! lemp_with_var.yml

1 ---

2 - name: install LEMP stack with variables

3 hosts: localhost

4 become: yes

5

6 #variables

7 vars:

8 web_pkg: nginx

9 db_pkg: mariadb105-server

10 php_pkg:

11 - php

12 - php-fpm

13 web_service: nginx

14 db_service: mariadb

15 php_service: php-fpm

16 web_file_path: /usr/share/nginx/html/index.php

17

18 # tasks section

19 tasks:

20 - name: Install nginx

21 ansible.builtin.dnf:

22 name: "{{ web_pkg }}"

23 state: present

24

25 - name: Install mariadb

26 ansible.builtin.dnf:

27 name: "{{ db_pkg }}"

28 state: present

29

30 - name: Install php and php-fpm

31 ansible.builtin.dnf:

32 name: "{{ php_pkg }}"

33 state: present

34

35 # ensure services are started and enabled

36 - name: Ensure nginx is started and enabled

37 ansible.builtin.systemd_service:

CHAT

TROUBLESHOOTING NGINX SERVICE STARTUP ...

- name: show listening ports

ansible.builtin.debug:

msg: "{{ ss_out.stdout_l

Likely root causes (quick):

nginx config syntax error (run nginx -t).

Another process already listening on port 80/443.

Missing directories or permissions referenced by config.

SELinux or firewall blocking (less likely to cause start failure, but possible).

Package mismatch or incorrect binary path (rare).

Next actions (choose one):

I can patch ! lemp_with_var.yml to add the diagnostics tasks and mark them in the playbook; tell me to proceed and I will patch it.

Or run the shell commands above on the target and paste the outputs here; I'll analyze and give a fix.

Which do you prefer?

Collect nginx service status and jour...

! lemp_with_var.yml +

Describe what to build next

Agent Auto

Ln 37, Col 40 Spaces: 2 UTF-8 CRLF {} YAML

25°C Sunny

Search

13:13 16-12-2025

```
root@ansible/etc/ansible/pla x + v
Complete!
[root@ansible playbooks]# ap lamp_var.yml --syntax-check
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

playbook: lamp_var.yml
[root@ansible playbooks]# ap lamp_var.yml
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [install LEMP stack with variables] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [Install nginx] *****
ok: [localhost]

TASK [Install mariadb] *****
ok: [localhost]

TASK [Install php and php-fpm] *****
ok: [localhost]

TASK [Ensure nginx is started and enabled] *****
changed: [localhost]

TASK [Ensure mariadb is started and enabled] *****
changed: [localhost]

TASK [Ensure php-fpm is started and enabled] *****
changed: [localhost]

TASK [Deploy test PHP file] *****
changed: [localhost]

PLAY RECAP *****
localhost : ok=8 changed=4 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

[root@ansible playbooks]#
```



```
root@ansible/etc/ansible/pla X + v
be elsewhere in the file depending on the exact syntax problem.
The offending line appears to be:

---
name: LEMP into LAMP conversion
^ here
[root@ansible playbooks]# nano lemp-into-lamp.yml
[root@ansible playbooks]# ap lemp-into-lamp.yml --syntax-check
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

playbook: lemp-into-lamp.yml
[root@ansible playbooks]# ap lemp-into-lamp.yml
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [migrate lemp to lamp stack] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [stop nginx service] *****
changed: [localhost]

TASK [disable nginx service] *****
changed: [localhost]

TASK [install httpd package] *****
changed: [localhost]

TASK [start and enable httpd service] *****
changed: [localhost]

TASK [deploy index.php file] *****
changed: [localhost]

PLAY RECAP *****
localhost : ok=6  changed=5  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

[root@ansible playbooks]# |
```

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ENG IN 13:13 16-12-2025

Instances | EC2 | ap-south-1

Professional README with Ima

KASHISH (Official Music Vi

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 5284-7166-6387

EC2 > Instances

EC2

Dashboard

AWS Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Capacity Manager

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Successfully initiated starting of i-0d3e9ad050c5c472d

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name

Instance ID

Instance state

Instance type

Status check

Alarm status

Availability Zone

Public IPv4 DNS

Public

Ansible

i-0d3e9ad050c5c472d

Running

t2.micro

Initializing

View alarms +

ap-south-1b

ec2-13-203-207-135.ap...

13.203

i-0d3e9ad050c5c472d (Ansible)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary Info

Instance ID

i-0d3e9ad050c5c472d

IPv6 address

-

Hostname type

IP name: ip-172-31-7-47.ap-south-1.compute.internal

Public IPv4 address copied

Public IPv4 addresses

13.203.207.135 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-7-47.ap-south-1.compute.internal

Private IPv4 addresses

172.31.7.47

Public DNS

ec2-13-203-207-135.ap-south-1.compute.amazonaws.com | open address

CloudShell

Feedback

Console Mobile App

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Search

ENG IN

15:09 16-12-2025