

# Playbooks

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- [AI] [Red Hat Ansible Lightspeed | Red Hat Developer](#)

Include a variables file

```
---  
  
- hosts: all  
  become: true  
  
  vars_files:  
    - vars.yml
```

vars.yml

```
---  
  
download_dir: /tmp  
solr_dir: /opt/solr  
solr_version: 8.6.0  
solr_checksum: sha512:6b0d618069e37215f305d9a61a3e65be2b9cfc32a3689ea6a25\  
be2f220b1ecc96a644ecc31c81e335a2dfa0bc8b7d0f2881ca192c36fd435cdd832fd7309a9ddb
```

Installs Apache on a RHEL/CentOS server

```
---  
  
- hosts: all  
  become: yes  
  
  tasks:  
    - name: Install Apache.  
      dnf:  
        name:  
          - httpd
```

```

- httpd-devel
state: present

- name: Copy configuration files.
copy:
  src: "{{ item.src }}"
  dest: "{{ item.dest }}"
  owner: root
  group: root
  mode: 0644
with_items:
  - src: httpd.conf
    dest: /etc/httpd/conf/httpd.conf
  - src: httpd-vhosts.conf
    dest: /etc/httpd/conf/httpd-vhosts.conf

- name: Make sure Apache is started now and at boot.
service:
  name: httpd
  state: started
  enabled: yes

```

## Deploy Node.js app

```

---
- hosts: all
  become: yes

  vars:
    node_apps_location: /usr/local/opt/node

  tasks:
    - name: Install EPEL repo.
      dnf: name=epel-release state=present
    - name: Import Remi GPG key.
      rpm_key:
        key: "https://rpms.remirepo.net/RPM-GPG-KEY-remi2018"
        state: present

```

```

- name: Install Remi repo.
  dnf:
    name: "https://rpms.remirepo.net/enterprise/remi-release-8.rpm"
    state: present

- name: Ensure firewalld is stopped (since this is for testing).
  service: name=firewalld state=stopped

- name: Install Node.js and npm.
  dnf: name=npm state=present enablerepo=epel

- name: Install Forever (to run our Node.js app).
  npm: name=forever global=yes state=present

```

□

```

- name: Ensure Node.js app folder exists.
  file: "path={{ node_apps_location }} state=directory"

- name: Copy example Node.js app to server.
  copy: "src=app dest={{ node_apps_location }}"

- name: Install app dependencies defined in package.json.
  npm: path={{ node_apps_location }}/app

- name: Check list of running Node.js apps.
  command: /usr/local/bin/forever list
  register: forever_list
  changed_when: false

- name: Start example Node.js app.
  command: "/usr/local/bin/forever start {{ node_apps_location }}/app/app.js"
  when: "forever_list.stdout.find(node_apps_location + '/app/app.js') == -1"

```

## Basic LAMP server setup

```

tasks:
- name: Get software for apt repository management.
  apt:
    state: present
    name:
      - python3-apt

```

- python3-pycurl

- name: Add Ondrej repository for later versions of PHP.

apt\_repository: repo='ppa:ondrej/php' update\_cache=yes

- name: "Install Apache, MySQL, PHP, and other dependencies."

apt:

state: present

name:

- - acl

- git

- curl

- unzip

- sendmail

- apache2

- php8.2-common

- php8.2-cli

- php8.2-dev

- php8.2-gd

- php8.2-curl

- php8.2-opcache

- php8.2-xml

- php8.2-mbstring

- php8.2-pdo

- php8.2-mysql

- php8.2-apcu

- libpcre3-dev

- libapache2-mod-php8.2

- python3-mysqldb

- mysql-server

- 

- name: Disable the firewall (since this is for local dev only).

service: name=ufw state=stopped

- name: "Start Apache, MySQL, and PHP."

service: "name={{ item }} state=started enabled=yes"

with\_items:

- apache2

- mysql

## Configure Apache

```
- name: Enable Apache rewrite module (required for Drupal).
  apache2_module: name=rewrite state=present
  notify: restart apache

- name: Add Apache virtualhost for Drupal.
  template:
    src: "templates/drupal.test.conf.j2"
    dest: "/etc/apache2/sites-available/{{ domain }}.test.conf"
    owner: root
    group: root
    mode: 0644
  notify: restart apache

- name: Enable the Drupal site.
  command: >
    a2ensite {{ domain }}.test
    creates=/etc/apache2/sites-enabled/{{ domain }}.test.conf
  notify: restart apache

- name: Disable the default site.
  command: >
    a2dissite 000-default
    removes=/etc/apache2/sites-enabled/000-default.conf
  notify: restart apache
```

## Template: drupal.test.conf.j2

```
<VirtualHost *:80>
  ServerAdmin webmaster@localhost
  ServerName {{ domain }}.test
  ServerAlias www.{{ domain }}.test
  DocumentRoot {{ drupal_core_path }}/web
  <Directory "{{ drupal_core_path }}/web">
    Options FollowSymLinks Indexes
    AllowOverride All
  </Directory>
</VirtualHost>
```

## Configure PHP with *lineinfile*

- name: Adjust OpCache memory setting.

lineinfile:

dest: "/etc/php/8.2/apache2/conf.d/10-opcache.ini"

regexp: "^opcache.memory\_consumption"

line: "opcache.memory\_consumption = 96"

state: present

notify: restart apache

## Configure MySQL

- name: Create a MySQL database for Drupal.

mysql\_db: "db={{ domain }} state=present"

- name: Create a MySQL user for Drupal.

mysql\_user:

name: "{{ domain }}"

password: "1234"

priv: "{{ domain }}.\*:ALL"

host: localhost

state: present

## Install Composer with *get\_url*

- name: Download Composer installer.

get\_url:

url: <https://getcomposer.org/installer>

dest: /tmp/composer-installer.php

mode: 0755

- name: Run Composer installer.

command: >

php composer-installer.php

chdir=/tmp

creates=/usr/local/bin/composer

- name: Move Composer into globally-accessible location.

command: >

mv /tmp/composer.phar /usr/local/bin/composer

```
creates=/usr/local/bin/composer
```

## Create a Drupal project with Composer

- name: Ensure Drupal directory exists.

file:

path: "{{ drupal\_core\_path }}"

state: directory

owner: www-data

group: www-data

- name: Check if Drupal project already exists.

stat:

path: "{{ drupal\_core\_path }}/composer.json"

register: drupal\_composer\_json

- name: Create Drupal project.

composer:

command: create-project

arguments: drupal/recommended-project "{{ drupal\_core\_path }}"

working\_dir: "{{ drupal\_core\_path }}"

no\_dev: true

become\_user: www-data

when: not drupal\_composer\_json.stat.exists

## Decompress the tar file

- name: Download Solr.

get\_url:

url: "https://archive.apache.org/dist/lucene/solr/"

"{{ solr\_version }}/solr-{{ solr\_version }}.tgz"

dest: "{{ download\_dir }}/solr-{{ solr\_version }}.tgz"

checksum: "{{ solr\_checksum }}"

- name: Expand Solr.

unarchive:

src: "{{ download\_dir }}/solr-{{ solr\_version }}.tgz"

dest: "{{ download\_dir }}"

remote\_src: true

creates: "{{ download\_dir }}/solr-{{ solr\_version }}/README.txt"

---

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