



[Home](#) > Blog > How to setup Ansible Lint extension in VSCode on Windows using WSL

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How to setup Ansible Lint extension in VSCode on Windows using WSL

A step-by-step guide to setup ansible-lint correctly. Fixing errors like 'Ansible-lint is not available. Kindly check the path or disable validation using ansible-lint' in VSCode.

Intro

Welcome! Following this guide to get to know how to setup Ansible Lint extension in Visual Studio Code on Windows with WSL. Here you will find a step-by-step guide to setup ansible-lint correctly. Fixing errors like 'Ansible-lint is not available. Kindly check the path or disable validation using ansible-lint' in VSCode.

To follow this guide, make sure you have WSL (Windows Subsystem for Linux) installed and configured on your Windows machine, with Ansible and ansible-lint properly set up in the WSL environment. We will install the official Ansible extension for VS Code and open your Ansible workspace in VS Code on WSL. Then we will verify that ansible-lint is functioning by creating a simple pipeline. Let's get started!

Prerequisites

Since you want to set up code checking in VSCode using ansible lint, we will assume that you have already installed Visual Studio Code and Ansible in your WSL environment. If not, here is the link to the official documentation for installing Ansible and link to download the latest version of VSCode. Ansible Lint is installed via pip. If you don't have pip, install it according to the instructions in the official documentation. By the end of the



command `wsl`.

Step 1: Install Ansible Lint in WSL

The ansible-lint command is part of the ansible-tools package. It can be installed either independently or along with all Ansible Tools packages (the latter is preferable). To install Ansible Lint in WSL, run the following pip command:

```
pip3 install ansible-dev-tools  
# or pip3 install ansible-lint
```

Step 2: Install Ansible Lint extension in VSCode

Start VSCode and open Extension panel with `Ctrl` + `Shift` + `X` or by clicking on the Extensions icon in the Activity Bar on the side of the VSCode window. Search for "Ansible" in the Extensions panel and install the official Ansible extension by Microsoft. If you can't find it, you can use this link to install it.



The screenshot shows the Ansible extension page in the VS Code Marketplace. The main title is "Ansible" by Red Hat, with a rating of 4.5 stars and 790,946 installs. Below the title, there's a large red circular icon with a white 'A'. The page includes tabs for DETAILS, FEATURES, CHANGELOG, and DEPENDENCIES. The DETAILS tab is active, showing the extension adds language support for Ansible to Visual Studio Code and OpenVSX compatible editors. It also lists other related extensions like "Ansible Snippets" and "Ansible Variable Lookup". On the right side, there are sections for Categories (Programming Languages, Linters), Resources (Marketplace, Issues, Repository, License, Red Hat), and More Info (Published: 2021-08-24, Last released: 2024-10-02, Identifier: redhat.ansible).

Step 3: Install Remote extension in VSCode

Since Ansible Lint was installed in WSL, we need to install the Remote extension in VSCode. This will allow us to work with files in WSL from VSCode. The extension can be found in the VSCode marketplace by the name "Remote". This is an official extension supported by Microsoft. This extension pack consists of the WSL extension, in addition to the Remote - SSH, and Dev Containers extensions, enabling you to open any folder in a container, on a remote machine, or in WSL. If you can't find it, use this link to install it.



The screenshot shows the Visual Studio Code Marketplace page for the 'Remote Development' extension pack. The page features a large blue icon with white arrows pointing left and right. At the top, it says 'REMOTE DEVELOPMENT' by Microsoft, with a download count of 6,396,154 and a 4.5-star rating from 113 reviews. Below the icon, there are tabs for 'DETAILS' and 'FEATURES'. Under 'Extension Pack (4)', two items are listed: 'WSL' (Windows Subsystem for Linux) and 'Dev Containers'. Both have their own detailed descriptions and 'Install' buttons. To the left of the main content, a sidebar lists other related extensions: 'Remote Development Tools', 'Remote - Tunnels', 'Remote - SSH', 'Remote Explorer', 'Remote Repositories', 'Remote - SSH: Edit...', 'Azure Machine Lease', 'Gitpod Remote', and 'Remote VSCode'. Each item has its name, size, rating, and a brief description.

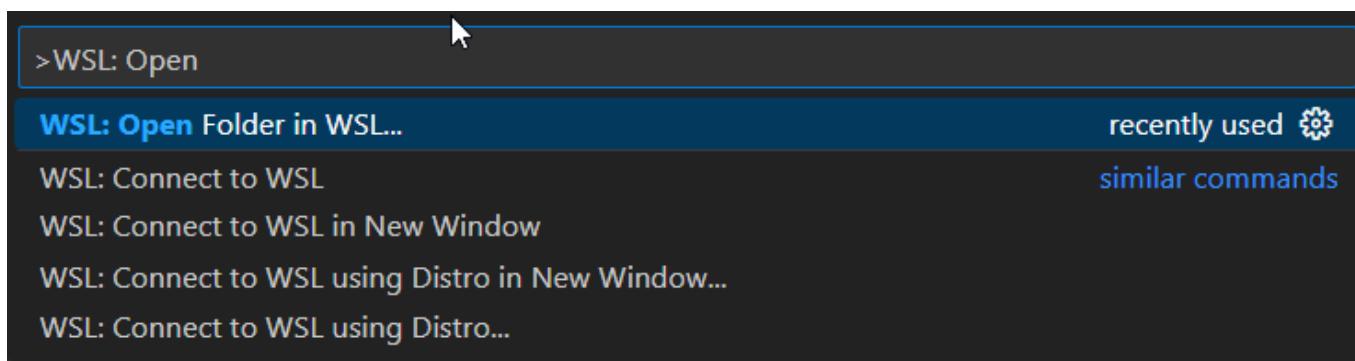
Step 4: Open your ansible workspace in VSCode

For now, if you try to open your Ansible playbooks in VSCode, you will get syntax highlights but also a linting error since VSCode is trying to find Ansible on your Windows host and cannot do it.

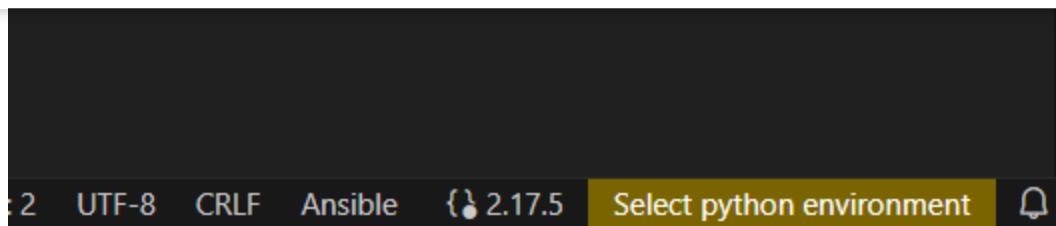


```
1 ---  
2 - name: Update web servers  
3 hosts: webservers  
4 remote_user: root  
5  
6 tasks:  
7 - name: Ensure apache is at the latest version  
8   ansible.builtin.yum:  
9     name: httpd  
10    state: latest  
11  
12 - name: Write the apache config file  
13   ansible.builtin.template:  
14     src: ./srv/httpd.j2  
15     dest: /etc/httpd.conf  
16  
17 - name: Update db servers  
18 hosts: databases  
19 remote_user: root  
20  
21 tasks:  
22 - name: Add PostgreSQL repository  
23   package:  
24     name: "https://download.postgresql.org/pub/repos/yum/reporpm.../  
25     state: present  
26  
27 - name: Ensure postgresql is at the latest version  
28   package:  
29     name: postgresql13-server  
30     state: latest  
31  
32 - name: Run PostgreSQL initdb if data directory does not exist  
33   shell: /usr/pg... ✘ Ansible-lint is not available. Kindly check the path or disable validation...  
34   args:  
35  
Ln 41, Col 22 Spaces: 2 UTF-8 CRLF Ansible ✘ Ansible Invalid python environment
```

To fix this, you should open your project with VSCode on WSL. To do this, open the command panel with `Ctrl` + `Shift` + `P`, search for `>WSL: Open Folder in WSL`, and pick your project folder.



Now your project is opened in WSL and linting should run correctly. If your WSL has multiple Python installations, the Ansible extension will let you choose the Python interpreter manually.



You should now see that your project is opened in WSL, Ansible version detected, and ansible-lint is working correctly.

```
simple-playbook.yml
 2 - name: Update web servers
 6 tasks:
12   - name: write the apache config file
17
18 - name: Update db servers
19 hosts: databases
20 remote_user: root
21
22 tasks:
23   - name: Add PostgreSQL repository
24     ansible.builtin.package:
25       name: "https://download.postgresql.org/pub/repos/yum/reporpm/
26       state: present
27
28   - name: Ensure postgresql is at the latest version
29     ansible.builtin.package:
30       name: postgresql13-server
31       state: present
32
33   - name: Run PostgreSQL initdb if data directory does not exist
34     # noqa: command-instead-of-shell
35     ansible.builtin.shell: /usr/pgsql-13/bin/postgresql-13-setup ini
36     args:
37       creates: /var/lib/pgsql/13/data/
38
39   - name: Ensure that postgresql is started
40     ansible.builtin.service:
41       name: postgresql-13
42       state: started
43       enabled: true
44
```

Step 5: Check working ansible-lint in VSCode

Let's create a simple playbook to check if ansible-lint is working in VSCode. Copy the following code to your Ansible playbook file named `simple-playbook.yml`:



```
hosts: webservers
remote_user: root

tasks:
  - name: Ensure apache is at the latest version
    ansible.builtin.yum:
      name: httpd
      state: latest

  - name: Write the apache config file
    ansible.builtin.template:
      src: ./srv/httpd.j2
      dest: /etc/httpd.conf

  - name: Update db servers
    hosts: databases
    remote_user: root

tasks:
  - name: Add PostgreSQL repository
    package:
      name: "https://download.postgresql.org/pub/repos/yum/reporpms/EL-9-x86_64/pgdg
      state: present

  - name: Ensure postgresql is at the latest version
    package:
      name: postgresql13-server
      state: latest

  - name: Run PostgreSQL initdb if data directory does not exist
    shell: /usr/pgsql-13/bin/postgresql-13-setup initdb
    args:
      creates: /var/lib/pgsql/13/data

  - name: Ensure that postgresql is started
    service:
      name: postgresql-13
      state: started
```



You will see that there are some errors highlighted in your playbook with the Ansible extension!

If you run `ansible-lint simple-playbook.yml` in your WSL terminal, you will see the same errors.

```
WARNING Listing 11 violation(s) that are fatal
fqcn[action-core]: Use FQCN for builtin module actions (ansible.builtin.yum).
initial-playbook.yml:7 Use `ansible.builtin.dnf` or `ansible.legacy.dnf` instead.
package-latest: Package installs should not use latest.
initial-playbook.yml:7 Task/Handler: Ensure apache is at the latest version
yaml[indentation]: Wrong indentation: expected at least 3
initial-playbook.yml:7
risky-file-permissions: File permissions unset or incorrect.
initial-playbook.yml:12 Task/Handler: Write the apache config file
...
Read documentation for instructions on how to ignore specific rule violations.
```

Rule Violation Summary

count tag	profile	rule associated tags
1 command-instead-of-shell	basic	command-shell, idiom
1 yaml[indentation]	basic	formatting, yaml
1 yaml[new-line-at-end-of-file]	basic	formatting, yaml
2 package-latest	safety	idempotency
1 risky-file-permissions	safety	unpredictability
5 fqcn[action-core]	production	formatting

Failed: 11 failure(s), 0 warning(s) on 1 files. Last profile that met the validation c



Let's try to fix them using hints from the Ansible VS Code extension! After fixing the highlighted errors, you will get the following valid Ansible playbook:

```
---
- name: Update web servers
  hosts: webservers
  remote_user: root
```



```
- name: Ensure apache is at the latest version
  ansible.builtin.package:
    name: httpd-2.4.62
    state: present

- name: Write the apache config file
  ansible.builtin.template:
    src: ./srv/httpd.j2
    dest: /etc/httpd.conf
    mode: "0644"

- name: Update db servers
  hosts: databases
  remote_user: root

  tasks:
    - name: Add PostgreSQL repository
      ansible.builtin.package:
        name: "https://download.postgresql.org/pub/repos/yum/reporpms/EL-9-x86_64/pgdg
        state: present

    - name: Ensure postgresql is at the latest version
      ansible.builtin.package:
        name: postgresql13-server
        state: present

    - name: Run PostgreSQL initdb if data directory does not exist
      # noqa: command-instead-of-shell
      ansible.builtin.shell: /usrpgsql-13/bin/postgresql-13-setup initdb
      args:
        creates: /var/lib/pgsql/13/data/

    - name: Ensure that postgresql is started
      ansible.builtin.service:
        name: postgresql-13
        state: started
        enabled: true
```



Ansible files. To do this, you need to create a ` ansible-lint` file in the root of your Ansible project. For example, to prevent highlighting errors for using built-in modules without the prefix ` ansible.builtin`, you could create the following ` ansible-lint` file:

```
---
```

```
skip_list:
  - fqcn-builtins
```

PROFIT!

If you find it usefull please follow me on [Github](#) to be notified about new lessons and content.

Useful links

- [Install Ansible](#)
- [Install Ansible Lint](#)
- [VSCode Ansible extension](#)
- [VSCode Remote extension](#)
- [How to open a WSL project in VSCode](#)
- [Install WSL](#)
- [Install VSCode](#)
- [Install pip](#)

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Source code available on [GitHub](#).