Exercise 3.0 - Windows Patching with Ansible

Patching windows systems can be a very time consuming task, but working with ansible you could reduce this time significantly.

In this exercise, you will update your windows nodes.

Creating a new Playbook

Step 1:

Within Visual Studio Code, create a new directory in your git repo and create a site.yml file.

In the Explorer accordion you should have a 'student#-playbooks' section.

Create a folder called windows_patching and a file called patch_windows.yml.

Hover over the **student#-playbooks** section and click the **New Folder** button.

Type windows_patching and press enter. Then click that folder so it is selected.

Hover over the **student#-playbooks** section again and click the **New File** button.

Type patch_windows.yml and press enter.

You should now have an editor open in the right pane that can be used for creating your playbook.

Step 2:

Add a play to your playbook. These include defining serial parameter which executes the playbook in stages to it doesn't try patch all systems all at once.

```
- hosts: windows
serial:
 - 25%
max_fail_percentage: 25%
  win_updates_categories:
     - CriticalUpdates
     - SecurityUpdates
tasks:
- name: Check for missing updates
  win_updates:
     state: searched
     category_names: "{{ win_updates_categories }}"
   register: search_updates
- name: Show missing updates
   debug:
     var: search_updates
- name: Install missing updates.
  win_updates:
     category_names: "{{ win_updates_categories }}"
   register: apply_updates
- name: Reboot if needed
  win_reboot:
  when: apply_updates.reboot_required
```

Step 3: Commit and Review

Your new, improved playbook is done! But remember we still need to commit the changes to source code control.

Click **File** → **Save All** to save the files you've written

Click on the Source Code icon, type in a commit message such as **Adding basic playbook**, and click the check box above.

Sync to gitlab by clicking the arrows on the lower left blue bar. When prompted, click **OK** to push and pull commits.

It should take 20-30 seconds to finish the commit. The blue bar should stop rotating and indicate 0 problems...

Running your playbook from Tower

Step 1:

Create a new job template in tower and add patch_windows playbook.

Step 2:

Run the playbook from Tower and review the results.

End Result

After running the playbook from Tower, it will update your nodes with the latest patches.