#TP Contôle R405

1 Consignes

- · Tous documents autorisés.
- IA non autorisées
- Échanges interdits (portables rangés,montres connectées rangées, silence exigé. Si vous avez fini, merci de sortir en silence.)
- Un compte-rendu est à rendre sur Moodle. Il contiendra votre code et une "sortie" montrant son exécution réussi. La sortie doit faire apparaître l'heure et le nom de votre PC.

2 Création d'un playbook Ansible pour déployer des outils écrits en Rust comme NuShell

```
---
- name: Déploiement de NuShell
hosts: localhost
become: true

tasks:
- name: Créer l'utilisateur "cargodenuit"
user:
name: cargodenuit
state: present
```

root@debian:~# id cargodenuit uid=1002(cargodenuit) gid=1002(cargodenuit) groupes=1002(cargodenuit) root@debian:~# ls /home/ ansible/ bin/ cargodenuit/ student/ vagrant/

2.

```
---
- name: to nushell
hosts: localhost
become: yes
become_user: cargodenuit

tasks:
- name: dl RUST
```

```
get_url:
    url: https://sh.rustup.rs
    dest: /home/cargodenuit/rustup.sh
    mode: '0755'

- name: exec RUST
    command: /home/cargodenuit/rustup.sh -y
    args:
        creates: /home/cargodenuit/.cargo/bin/rustup

- name: add PATH
    lineinfile:
        dest: /home/cargodenuit/.bashrc
        line: 'export PATH="$HOME/.cargo/bin:$PATH"'
```

```
/usr/local/lth/python3.9/dist-packages/paraniko/transport.py:236: CryptographyDeprecationWarning: Blowfish has been deprecated "class: algorithms.Blowfish, ansible:playbook [core 2:12.5]
configing the /etc/ansible/ansible.cfg
configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
ansible polybon module location = /usr/local/lth/python3.9/dist-packages/ansible
ansible collection location = /usr/local/lth/python3.9/dist-packages/ansible/collections
executable location = /usr/local/lth/ansible/plugins/modules']
ansible polybon module location = /usr/local/lth/ansible/plugins/modules']
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ansible collection = /usr/local/lth/ansible/plugins/modules']
ansible collection = /usr/loc
```

1.

```
- name: Deploie Nushell
hosts: localhost
vars:
   utilisateur: cargodenuit
become: true
become_user: "{{ utilisateur }}"
tasks:
   - name: change le nom de mon pc
```

```
command: hostnamectl set-hostname pc-julien

- name: rust script
  get_url:
    url: https://sh.rustup.rs
    dest: /tmp/rustup.sh
    mode: '0755'

- name: Installation de Rust
  shell: /tmp/rustup.sh -y
  args:
    executable: /bin/bash
```

4.

```
- name: Deploie Nushell
 hosts: localhost
 vars:
    utilisateur: cargodenuit
    chemin_cargo: /usr/bin/cargo
    chemin_nushell: /home/{{ utilisateur }}/.cargo/bin/nu
  become: true
  become_user: "{{ utilisateur }}"
  tasks:
    - name: Installation de NuShell
      environment:
       HOME: "/home/{{ utilisateur }}"
      shell: |
        {{ chemin_cargo }} install nu --root "{{ chemin_cargo }}"
        export PATH=$PATH:{{ chemin_nushell }}
        echo 'export PATH="$PATH:{{ chemin_nushell }}"' >> /home/{{
utilisateur }}/.bashrc
     args:
        executable: /bin/bash
```

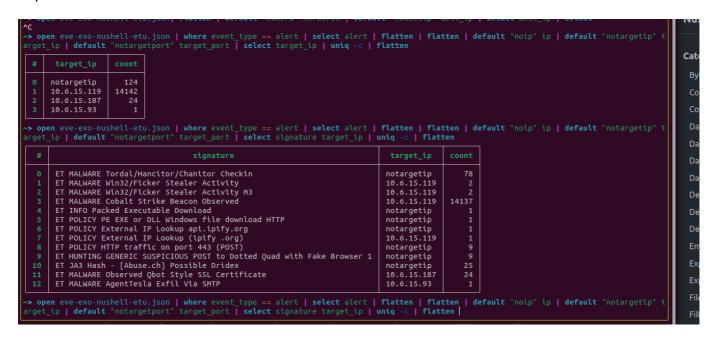
Tentative update de cargo suite à un problème : cargo install cargo-update && cargo install-update -a

Apres plusieurs test toujour une erreur pour la 4.

3 Utilisation de NuShell dans le domaine de la cybersécurité

- open eve-exo-nushell-etu.json | where event_type == alert | select alert | flatten | flatten | default "noip" ip | default "notargetip" target_ip | default "notargetport" target_port | select target_ip | uniq -c | flatten
- 2. open eve-exo-nushell-etu.json | where event_type == alert | select alert | flatten | flatten | default "noip" ip | default "notargetip" target_ip | default "notargetport" target_port | select signature target_ip | uniq -c | flatten

Réponse de la 1 et 2 :



3. open \$file | flatten | default "nokerb" kerberos| default "nodsttip" dest_ip|default "noip" ip | default "notargetip" target_ip | default "notargetport" target_port | default "nohost" cname| where target_ip == 10.6.15.119 or target_ip == 10.6.15.187 or target_ip == 10.6.15.93 or target_ip == notargetip | where cname != nohost and cname != | select dest_ip cname | uniq -c

