Ansible for Remote Ubuntu Configuration

Project: Ansible for Remote Ubuntu Configuration

Objective:

The goal of this project is to create an Ansible playbook that remotely installs Ubuntu on target machines, configures them according to the CSI Linux specifications, and runs necessary scripts and installations. This is an essential step towards automating the deployment and customization of Ubuntu systems in a distributed environment.

Requirements:

1. The playbook should remotely connect to a list of specified target machines using SSH.

2. The playbook should include tasks to install Ubuntu on the target machines. The installation should be automated with predefined user inputs for all prompts during the installation.

3. The playbook should configure the installed Ubuntu systems as per CSI Linux specifications. This includes system settings like timezone, locale, keyboard layout, background, XFCE Menus, etc.

4. The playbook should install provided Debian (.deb) packages. The package should be downloaded from a specified URL or copied from a local directory.

5. The playbook should include tasks to download additional files from specified URLs and place these files in a specific directory (/opt/csitools).

6. The playbook should run additional shell scripts as part of the installation process. The paths to these shell scripts should be configurable.

Deliverables:

1. An Ansible playbook satisfying the requirements.

2. A comprehensive step-by-step documentation on how to use the playbook and how it works.

Evaluation Criteria:

1. Correct remote connection and Ubuntu installation on the target machines.

2. Successful configuration of the installed Ubuntu systems as per CSI Linux specifications.

3. Successful installation of Debian packages.

4. Correct downloading of additional files and execution of shell scripts.

5. Quality and clarity of the step-by-step documentation.

Instructions for Volunteers:

Please start your work by reviewing the requirements and evaluation criteria above. Upon completion of the project, you need to submit the Ansible playbook and your step-by-step documentation on how to use it. We look forward to your contributions and thank you for your support in advancing CSI Linux.

Resources:

- Ansible Documentation: https://docs.ansible.com/
- SSH: https://www.openssh.com/
- Installing Ubuntu:
  https://ubuntu.com/tutorials/install-ubuntu-desktop#1-overview
- Ansible Playbooks:
  https://docs.ansible.com/ansible/latest/user_guide/playbooks.html
- System Settings:
  https://help.ubuntu.com/stable/ubuntu-help/prefs-system-time.html.en