

# Inventory from gathered facts.

## Playbook example

```
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- name: Generate YAML Inventory File from Gathered Facts
  hosts: all
  gather_facts: true
  tasks:
    - name: Gather facts from hosts
      setup:

    - name: Create YAML inventory file
      copy:
        content: |
          all:
            children:
              hosts:
                hosts:
                  {{ hostvars[item].inventory_hostname }}:
                    ansible_host: {{ hostvars[item].ansible_host }}
                    ansible_user: {{ hostvars[item].ansible_user }}
                    ansible_port: {{ hostvars[item].ansible_port }}
                    ansible_ssh_pass: {{ hostvars[item].ansible_ssh_pass | default("") }}
                    ansible_ssh_private_key_file: {{ hostvars[item].ansible_ssh_private_key_file | default("") }}
                    inventory_hostname: {{ hostvars[item].inventory_hostname }}
        dest: /path/to/your/output/inventory.yaml
        mode: 0644
      loop: "{{ ansible_play_batch }}"
      run_once: yes
```

We define a play named "Generate YAML Inventory File from Gathered Facts" that runs on all hosts (hosts: all) and enables fact gathering with gather\_facts: true.

In the first task, we use the setup module to gather facts from the hosts.

In the second task, we use the copy module to create the YAML inventory file. We loop through each host in `ansible_play_batch` (which contains all the hosts that ran this play) and format the gathered facts into the inventory file.

`ansible_host`, `ansible_user`, `ansible_port`, `ansible_ssh_pass`, `ansible_ssh_private_key_file`, and `inventory_hostname` are some of the facts we include in the inventory file.

The inventory file is saved at the specified destination path (`/path/to/your/output/inventory.yaml`) with appropriate file permissions (mode `0644`).

Make sure to replace `/path/to/your/output/inventory.yaml` with the actual path where you want to save the generated YAML inventory file.

You can run this playbook with the `ansible-playbook` command:

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Revision #1

Created 7 November 2023 12:47:18 by Michael Cleary

Updated 6 February 2024 13:25:52 by Michael Cleary