Ansible Cheat Sheet

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|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--|--|--|--|
| # ansible CLI | | | | | |
| -i | Inventory path | | | | |
| -m | Module name | | | | |
| -a | Module arguments | | | | |
| -b | Become, add -K to prompt for password | | | | |
| -v(vvv) | Verbosity | | | | |
| check, -C | Shows what would change | | | | |
| one-line, -o | Try to output on single line | | | | |
| # ansible-playbook CLI (in addition to above) | | | | | |
| syntax-check | YAML syntax validation | | | | |
| step | Asks before completing task | | | | |
| start-at-task | Starts playbook at specific task | | | | |
| Inventory | | | | | |
| all | Every host explicitly listed in the inventory | | | | |
| ungrouped | Every host explicitly listed in the inventory | | | | |
| | not a member of any group | | | | |
| Nested Groups | [new_group:children] | | | | |
| | child_host_one | | | | |
| | child_host_two | | | | |
| Testing Inventory | # ansible [host or group]list-hosts | | | | |
| | Accepts wildcard = * Multiple entries = host1,host2 | | | | |
| | Logical AND = group1,&group2 | | | | |
| | Logical NOT = group1,!group2 | | | | |
| Facts | | | | | |
| Get facts from a | # ansible targetName -m setup -a | | | | |
| node (ad hoc) | "filter="facter_*" | | | | |
| In a playbook | {{ ansible_fact }} | | | | |
| Include fact in | [group] | | | | |
| inventory | host1 admin_user=jane | | | | |
| Local facts | place .fact file into /etc/ansible/facts.d on target node | | | | |
| Get Local facts | # ansible targetName -m setup -a "filter=ansible_local" | | | | |
| Delegated Facts | | | | | |
| Any facts gathered by a delegated task are assigned by default to | | | | | |
| the delegate_to host,instead of the host which actually produced | | | | | |
| the facts | | | | | |
| The delegate_facts directive can be set to True to assign the gathered facts from the task to the delegated host instead of the current host | | | | | |
| - Control Hook | | | | | |

| Variables | |
|--------------------------|-------------------------------------------------------------------------------|
| As a file | vars_files: |
| | - vars.yml |
| Direct reference | vars: |
| | project_root: /etc/xyz |
| In a playbook | file: |
| | state: directory |
| | path: \${project_root} |
| Store output of a | shell: cat /etc/network grep eth0 |
| command as a variable | register: address |
| variable | debug: msg: "addr= {{ address.stdout }}" |
| Magic Variables | msg. addi- ([address.studdt]] |
| Magic Variables hostvars | Contains the variables for managed hosts, |
| iiostvais | and can be used to get the values for |
| | another managed host's variables |
| group_names | Lists all groups for current managed host |
| groups | Lists all groups and hosts in the inventory |
| | |
| inventory_ hostname | Contains the hostname for the current managed host as listed in the inventory |
| Delegation | managed nost as listed in the inventory |
| Run task on | namo: run on comocorvor |
| different target | - name: run on someserverdelegate_to: someserver |
| | |
| Delegate task to a | - name: restart web servers service: |
| host group | name: memcached |
| | state: restarted |
| | delegate_to: "{{ item }}" |
| | with_items: "{{ groups['webservers'] }}" |
| To local machine | delegate_to: localhost |
| Simple Loops | |
| | yum: |
| | name: "{{ item }}" |
| | state: present |
| | with_items: |
| | - http |
| | - myapp |
| Includes | |
| | tasks: |
| | - include: db.yml |
| Debugging | |
| Print always | debug: |
| | msg: "running stuff" |
| Print only at | debug: |
| verbosity level | var: result |
| | verbosity: 2 |

| # ansible-galaxy CL | ı | Module: Shell | |
|---------------------------|---------------------------------------------------------------------|--------------------|----------------------------------------------------------|
| search | Searches Galaxy for the string specified | Redirect | shell: somescript.sh >> somelog.txt |
| Info | Displays more detailed info about a role | Env vars | shell: echo "\$HOME" |
| install | Downloads a role, then installs it locally | Module: Service | |
| list | Lists the roles that are found locally | Manipulate a | - name: service example |
| remove | Remove local role | service/daemon | service: |
| | | | name: httpd |
| init | Creates a directory structure for a new role that will be developed | | state: started stopped restarted |
| init offline | Used when Internet access is unavailable | | enabled: yes |
| | osed when internet access is unavailable | Module: Copy | |
| Roles | | Copy new | - name: copy example |
| In a playbook | roles: | ntp.conf file into | copy: |
| | - role1 | place, backing up | src: /mine/ntp.conf |
| | - role2 | the original if it | dest: /etc/ntp.conf |
| Conditional Execut | ion | differs from the | owner: root |
| | - shell: echo "only on Red Hat 7" | copied version | group: root |
| | when: (ansible_distribution == "RedHat" | | mode: 0644 |
| | ansible_distribution_major_version == "7") | | backup: yes |
| | - shell: echo "I've got '{{ foo }}'!" | Module: File | |
| | when: foo is defined | Create a File | - name: file example |
| Handlers | | | file: |
| | name, install anache | | path: /etc/foo.conf |
| Declare/Notify in Task | - name: install apache | | owner: foo |
| | action: package | | group: foo |
| | name: apache2 state: latest | | mode: 0644 |
| | notify: | Dir (create if not | - name: file example for dirs |
| | - start apache2 | exist) | file: |
| Execute | | | path: /etc/some_directory |
| | handlers: | | state: directory |
| | - name: start apache2 | | mode: 0755 |
| | action: service | Module: Package | |
| | name=apache2 | Manipulate a | - name: package example |
| | state=started | package | package: |
| Сог | mmon Modules with Examples | | name: ntpdate |
| Module: Command | | | state: present absent latest |
| Change directory | - name: command example | Module: LineInFile | |
| to "chdir" and will | command: /usr/bin/make_db.sh arg1 | | |
| only run when | args: | Insert using regex | name: example insert lineinfile: |
| "creates" doesn't | chdir: somedir/ | | path: /etc/selinux/config |
| exist | creates: /path/to/database | | regexp: '^SELINUX=' |
| | register: myoutput | | line: 'SELINUX=enforcing' |
| Module: Get_URL | | | |
| Pull a file from a | - name: get_url example | Remove using | name: example remove lineinfile: |
| remote source | get_url: | regex | path: /etc/sudoers |
| remote source | url: http://example.com/path/file.conf | | state: absent |
| | dest: /etc/foo.conf | | regexp: '^%wheel' |
| | mode: 0440 | | - · |
| | mode. 0440 | | |

backup: yes|no