

Report notes

src/main/resources/build-info.txt:

```
Build_time=12:23
Build_machine_name=epbyminw2472.minsk.epam.com
Build_user_name=student
```

\$ mvn clean package -DbuildNumber=\$VERSION



library/deploy.sh:

```
#!/bin/bash
source $1

if [ -z "$url" ] || [ -z "$war" ] || [ -z "$username" ] || [ -z "$password" ] ; then
    echo "Missed parameter... exit..."
    exit 0
fi
if [ ! -f $war ]; then
    echo "deploy file is missing... exit..."
    exit 0
fi
filename=$(basename "$war")
url_end="${filename%.*}"

out=$(curl -u $username:$password --upload-file $war "$url/manager/text/deploy?path=/$url_end&update=1")

echo $out | grep OK > /dev/null
if [ $? == 0 ]; then
    status="ok"
    changed="true"
else
    status="failed"
    changed="false"
    exit 0
fi
d_time=$(date)

printf '{"changed": "%s", "status": "%s", "date": "%s", "username": "%s", "app": "%s"}' "$changed" "$d_time"
```

deploy.yml:

```
- name: Installation
  hosts: pets
  become: true
```

```

become_method: sudo

roles:
- role: tomcat
- role: nginx

tasks:
- set_fact:
    tomcat_home: "{{ tomcat_home }}"

- name: Deploying
  hosts: pets
  become: true
  become_method: sudo

roles:
- role: deploy_war

```

ansible.cfg:

```

[defaults]
hostfile = inventory
host_key_checking = False
deprecation_warnings=False
roles_path = /home/student/cm/ansible/day-3/roles
callback_whitelist = plug
stdout_callback = plug

```

inventory:

```

[pets]
pet ansible_ssh_host=192.168.56.10

[pets:vars]
ansible_ssh_port=22
ansible_ssh_user = vagrant
ansible_ssh_private_key_file = .vagrant/machines/default/virtualbox/private_key

```

deploy_war role

defaults/main.yml:

```

---
username: admin
password: admin
url: http://192.168.56.10:8080

```

files/cpntext.xml:

```
<?xml version="1.0" encoding="UTF-8"?>

<Context antiResourceLocking="false" privileged="true" >
  <Valve className="org.apache.catalina.valves.RemoteAddrValve"
    allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1|192\.168\.56\.\d+" />
</Context>
```

files/deploy-info.txt:

```
deployed at:
{{ script_out.date }}
deployed by:
{{ script_out.username }}
```

files/tomcat-users.xml:

```
<?xml version="1.0" encoding="UTF-8"?>

<tomcat-users xmlns="http://tomcat.apache.org/xml"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
  version="1.0">

  <role rolename="admin"/>
  <role rolename="admin-gui"/>
  <role rolename="manager-script"/>
  <role rolename="manager-gui"/>
  <user username="admin" password="admin" roles="admin,admin-gui,manager-script,manager-gui"/>
  <user username="manager" password="manager" roles="manager-gui"/>

</tomcat-users>
```

handlers/main.yml:

```
---
- name: restart tomcat
  service: name=tomcat state=restarted
```

tasks/main.yml:

```
---
- name: replace tomcat-users.xml with appropriate one
  template:
    src: ../files/tomcat-users.xml
    dest: '{{ tomcat_home }}/conf/'
    owner: tomcat_as
```

```

    group: tomcat_as_group
    mode: 0744
    notify: restart tomcat

- name: replace context.xml with appropriate one
  template:
    src: ../files/context.xml
    dest: '{{ tomcat_home }}/webapps/manager/META-INF/'
    owner: tomcat_as
    group: tomcat_as_group
    mode: 0744
    notify: restart tomcat

- name: force handlers
  meta: flush_handlers

- pause:
    minutes: 1
    prompt: "wait for tomcat starts"

- name: execute deploy script
  deploy:
    url: "{{ url }}"
    war: "{{ war }}"
    username: "{{ username }}"
    password: "{{ password }}"
    delegate_to: localhost
    register: script_out

- name: create directory for deploy-info.txt
  file:
    path: /var/lib/tomcat/webapps
    state: directory
    recurse: yes
    owner: tomcat_as
    group: tomcat_as_group
    mode: 0744

- name: copy deploy-info.txt to remote host
  template:
    src: ../files/deploy-info.txt
    dest: /var/lib/tomcat/webapps/
    owner: tomcat_as
    group: tomcat_as_group
    mode: 0744

- name: Check if nginx redirects, tomcat page returns 200
  uri:
    url: "{{ url }}/{{ script_out.app }}"
    assert:
    register: webpage

- assert:
    that:
      - "{{ webpage.status }}" == 200

```



callback plugin:

```
from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import collections
import os
import time

from ansible.module_utils.six.moves import reduce
from ansible.plugins.callback import CallbackBase

# define start time
t0 = tn = time.time()

def secondsToStr(t):

    def rediv(ll, b):
        return list(divmod(ll[0], b)) + ll[1:]

    return "%d:%02d:%02d.%03d" % tuple(reduce(rediv, [[t * 1000, ], 1000, 60, 60]))

def filled(msg, fchar=" "):
    if len(msg) == 0:
        width = 79
    else:
        msg = "%s " % msg
        width = 79 - len(msg)
    if width < 3:
        width = 3
    filler = fchar * width
    return "%s%s " % (msg, filler)

def timestamp(self):
    if self.current is not None:
        self.stats[self.current]['time'] = time.time() - self.stats[self.current]['time']

def tasktime():
    global tn
    time_current = time.strftime('%A %d %B %Y %H:%M:%S %Z')
    time_elapsed = secondsToStr(time.time() - tn)
    time_total_elapsed = secondsToStr(time.time() - t0)
    tn = time.time()
    return filled('%s (%s)%s%s' % (time_current, time_elapsed, ' ' * 7, time_total_elapsed))

class CallbackModule(CallbackBase):

    CALLBACK_VERSION = 2.0
    CALLBACK_TYPE = 'aggregate'
    CALLBACK_NAME = 'profile_tasks'
    CALLBACK_NEEDS_WHITELIST = True
```

```

def __init__(self):
#     super(CallbackModule, self).__init__(*args, **kwargs)
    self.stats = collections.OrderedDict()
    self.current = None
    self.sort_order = os.getenv('PROFILE_TASKS_SORT_ORDER', True)
    self.task_output_limit = os.getenv('PROFILE_TASKS_TASK_OUTPUT_LIMIT', 20)
    self.task = None
    self.play = None

    if self.sort_order == 'ascending':
        self.sort_order = False

    if self.task_output_limit == 'all':
        self.task_output_limit = None
    else:
        self.task_output_limit = int(self.task_output_limit)

    super(CallbackModule, self).__init__()

def _record_task(self, task):
    """
    Logs the start of each task
    """
    self._display.display(tasktime())
    timestamp(self)

    # Record the start time of the current task
    self.current = task._uuid
    self.stats[self.current] = {'time': time.time(), 'name': task.get_name()}
    if self._display.verbosity >= 2:
        self.stats[self.current]['path'] = task.get_path()

def v2_playbook_on_task_start(self, task, is_conditional):
    self._record_task(task)

def v2_on_any(self, *args, **kwargs):
#     self._display.display("--- play: {} task: {} ---".format(getattr(self.play, 'name', None), s

    self._display.display("="*120)
    for i, a in enumerate(args):
        self._display.display('    %s <%s> %s' % (" "*32, a, " "*32))

#     self._display.display("        --- KWARGS ")
#     for k in kwargs:
#         self._display.display('        %s: %s' % (k, kwargs[k]))

def v2_playbook_on_handler_task_start(self, task):
    self._record_task(task)

def playbook_on_setup(self):
    self._display.display(tasktime())

def playbook_on_stats(self, stats):
    self._display.display(tasktime())
    self._display.display(filled("", fchar=""))

    timestamp(self)

    results = self.stats.items()

```

```
# Sort the tasks by the specified sort
if self.sort_order != 'none':
    results = sorted(
        self.stats.items(),
        key=lambda x: x[1]['time'],
        reverse=self.sort_order,
    )
```