

## Ansible. 4

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### Lab Work Task. Web Server Provisioning

#### Review:

Using Ansible v2.3.1 for provisioning nginx + tomcat application stack.  
Learning by doing.

#### Task

On Host Node (Control Machine):

- Create folder ~/cm/ansible/day-4. All working files are supposed to be placed right there.
- Configure Ansible to use roles from ~/cm/ansible/day-3 folder
- Build java sources with maven from here: <https://github.com/sbeliakou/hello-war> (MANUALLY)

Requirements:

Update file src/main/resources/build-info.txt with following details:

- Build time
- Build Machine Name
- Build User Name
  - Build command:  
\$ mvn clean package -DbuildNumber=\$VERSION
- Develop a module for deploying resulted war file to Tomcat AS.  
Example:
  - deploy: url=... war=... username=... password=...

Requirements:

After deployment you should update file /var/lib/tomcat/webapps/deploy-info.txt

Add following details:

deployment time

deploy User

- Develop a playbook (name: deploy.yml) to deploy war file (role!), pass war-file as an extra-argument to playbook. Example: \$ ansible-playbook deploy.yml ... -e war=...

**Consider:**

Playbook should deploy war file and test that deployment was successful.

- Develop custom callback plugin to make playbook output more human readable. Example: Appendix A.
- Verification Procedure: playbook will be checked by instructor's CI system as follows:
  - Connect to student's host by ssh (username "student") with own ssh key.
  - Go into the folder mentioned in point 1
  - Destroy/Launch VM: `vagrant destroy && vagrant up`
  - Execute VM provisioning: `ansible-playbook deploy.yml -i inventory -v`
  - If previous steps are done successfully, instructor will check report (pdf-file)
- Feedback: report issues/problems you had during the development of playbook and time spent for development.