**Lab: install/delete Jenkins by Ansible**

1. Create Ansible roles for installing Jenkins – **3**

* tune sysctl parameters for VM:
* vm.min\_free\_kbytes
* fs.file-max = 2097152
* net.core.somaxconn = 65000
* disable swap
* disable THP
* install openjdk-11-jdk
* Jenkins should be enabled on startup
* setup custom port 8081 for Jenkins
* install plugins: GitHub, Role-based authorization strategy, NodeJS
* add new user – Jenkins-NAME(your fullname, Jenkins-linustorvalds)

1. Create separate role for deleting Jenkins - **3**

* delete all components related to the Jenkins including openjdk-11-jdk
* state of the should be the same as before installation Jenkins
* the parameters of VM configured before can remain the same

1. Configure Nginx reverse proxy for Jenkins - **2**

* Nginx config should be located in Jenkins install role
* don’t forget to delete Nginx in Jenkins delete role!!!

1. Add separated playbooks “jenkins-setup.yml”, “jenkins-cleanup.yml” adding Jenkins roles which were created before. Create playbook with name “setup\_jenkins\_environment.yml” and import “jenkins-setup.yml”, “jenkins-cleanup.yml” into this playbook also adding “tags” to distinguish. – **1**
2. Add inventory file with your VM.
3. \* Spin up and connect Jenkins-agent in Docker. Describe it in “install-jenkins” role.

**Notes:** please use Ansible native modules as much as possible, avoid using “shell” module

**Results:**

Create separated directory in <https://stash.playtika.com/projects/IA/repos/ansible/browse> repo with name “ansible\_domainName”, for example “ansible\_ipysmennyi”. All code should be created in feature branch with name “feature/domainName”, for example “feature/ipysmennyi”. After merge to “master” branch.