

# YARN Setup

## Prerequisites:

- Java-8 needs to be installed
- Zookeeper Setup - [Zookeeper setup](#)
- HDFS Setup - [HDFS Cluster setup](#)

## Ansible run:

- Login to VM where ansible-playbooks are placed
- Change the current working directory to ansible-playbook

```
[centos@ip-10-0-0-68 playbook]$ pwd
/home/[REDACTED]/argoid-automation/playbook
[centos@ip-10-0-0-68 playbook]$
```

- Modify `resource_manager`, `node_manager`, `yarn_timeline_server`, `mr_history_server` inventory IP addresses (accordingly to the environment IP addresses) in `inventory/env_name.ini` file

**Note:** Do not use `env_name.ini` as an inventory name in your case, here it is shown just for example purpose, in your case name of the inventory file name will be different

```
[resource_manager]
10.0.0.13
10.0.0.14

[node_manager]
10.0.0.15
10.0.0.16

[yarn:children]
resource_manager
node_manager

[yarn:vars]
jobhistory_ipc_port=10020
yarn_timeline_web_port=8188
jobhistory_web_port=19888
yarn_timelineserver_web_url={{hostvars[inventory_hostname].groups['yarn_timeline_server'][0]}}{{yarn_timeline_web_port}}
yarn_log_server_url={{hostvars[inventory_hostname].groups['mr_history_server'][0]}}{{jobhistory_web_port}}
mapreduce_jobhistory_address={{hostvars[inventory_hostname].groups['mr_history_server'][0]}}{{jobhistory_ipc_port}}

[yarn_timeline_server]
10.0.0.17

[yarn_timeline_server:vars]
yarn_timeline_web_port=8188

[spark_history_server]
10.0.0.18

[spark_history_server:vars]
spark_history_server_web_port=18080
spark_history_server_web_url={{hostvars[inventory_hostname].groups['spark_history_server'][0]}}{{spark_history_server_web_port}}
#spark_hdfs_path={{hostvars[inventory_hostname].groups['hadoop_cluster']['hdfs_cluster_id']}}
spark_hdfs_path={{ hostvars[hadoop_cluster]['hdfs_cluster_id'] }}

[mr_history_server]
10.0.0.19

[mr_history_server:vars]
jobhistory_web_port=19888
```

- Modify values for these keys `yarn_resourcemanager_cluster_id` `yarn_resourcemanager_zk_path` `yarn_nodemanager_local_dirs_path` `yarn_nodemanager_log_dirs_path` in inventory file

- Ansible run  
ResourceManager Setup  
`ansible-playbook -i inventory/env_name.ini hadoop yarnha.yml --private-key=files/common/id_rsa --tags=cluster_setup`
- Mapreduce-History Server Setup  
`ansible-playbook -i inventory/env_name.ini mr-historyserver.yml --private-key=files/common/id_rsa --tags=cluster_setup`
- Yarn-Timeline-Server Setup  
`ansible-playbook -i inventory/env_name.ini yarn-timelineserver.yml --private-key=files/common/id_rsa --tags=cluster_setup`
- NodeManager Setup  
[YARN NodeManger Setup](#)