## Maximo Application Suite Installation Guide (MASCLI/Pipeline Approach)

- 1. Before we start ensure that you have your IBM Entitlement Key and the license file to install MAS.
- Start the docker service on your system.
- 3. Run the following command from your command line terminal to initiate the MASCLI container. docker run -ti --rm --pull always quay.io/ibmmas/cli
- 4. Notice how the image is being pulled from the IBM repos.

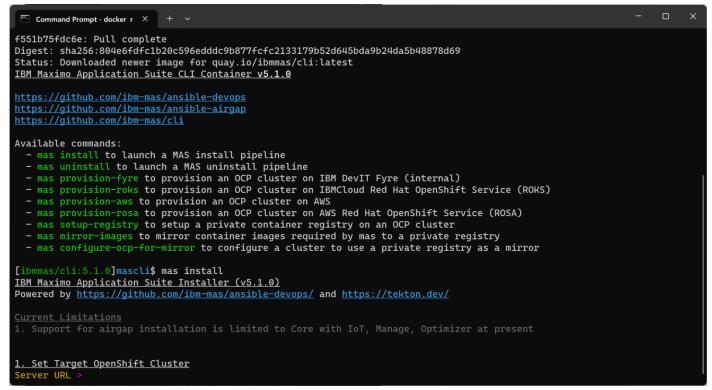
5. Wait until you see the MASCLI prompt as follows -

```
Command Prompt - docker r × + v
5c7764e6b3c8: Pull complete
1a2a61d234e0: Pull complete
ab87d4cfc977: Pull complete
99069f3a55e5: Pull complete 65e3c68613c6: Pull complete
12472e06fe5c: Pull complete
7feb80efee78: Pull complete
e24eacdf488a: Pull complete
0be65176d2a6: Pull complete
f551b75fdc6e: Pull complete
Digest: sha256:804e6fdfc1b20c596edddc9b877fcfc2133179b52d645bda9b24da5b48878d69
Status: Downloaded newer image for quay.io/ibmmas/cli:latest
IBM Maximo Application Suite CLI Container v5.1.0
https://github.com/ibm-mas/ansible-devops
https://github.com/ibm-mas/ansible-airgap
https://github.com/ibm-mas/cli
  - mas install to launch a MAS install pipeline
- mas uninstall to launch a MAS uninstall pipeline
- mas provision-fyre to provision an OCP cluster on IBM DevIT Fyre (internal)
- mas provision-roks to provision an OCP cluster on IBMCloud Red Hat OpenShift Service (ROKS)
  - mas provision-aws to provision an OCP cluster on AWS
  - mas provision-rosa to provision an OCP cluster on AWS Red Hat OpenShift Service (ROSA)

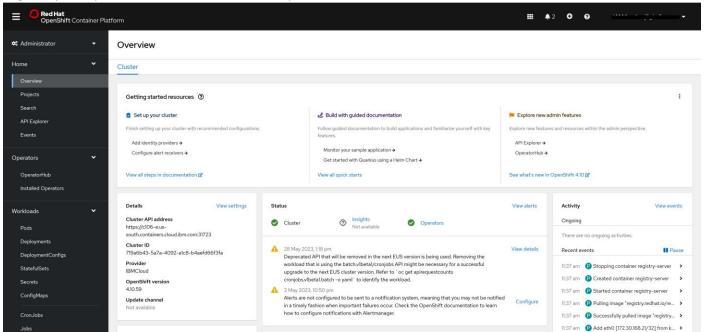
    mas setup-registry to setup a private container registry on an OCP cluster
    mas mirror-images to mirror container images required by mas to a private registry

  - mas configure-ocp-for-mirror to configure a cluster to use a private registry as a mirror
[ibmmas/cli:5.1.0]mascli$
```

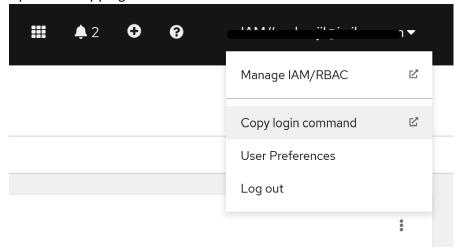
6. Type "mas install" to launch the installation pipeline.



7. Login to your OpenShift Cluster, in order to find your cluster details.



Open the "Copy login command" window from inside the OCP cluster at the top-right corner of screen.



9. Copy the cluster URL and the login token and paste the corresponding values on the MASCLI terminal.

## Your API token is sha256~VdV0SBGKIXdDKgdZCu\_0LzR-LZR-f8zUhMeV-bRkiMQ Log in with this token oc login --token=sha256~VdV0SBGKIXdDKgdZCu\_0LzR-LZR-f8zUhMeV-bRkiMQ --server=https://c106-e.us-south.containers.cloud.ibm.com:31723

10. The terminal will identify your cluster and wait for your confirmation to continue.

11. OCP Pipelines Operator will now get installed automatically. Wait for it to complete.

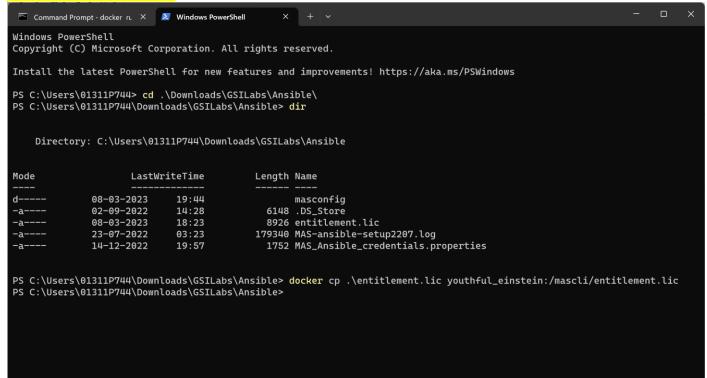
12. Now we need to provide appropriate details for our MAS Installation. Before we proceed, we need to copy our license file from our local system to the container that is currently running the mascli. You can use docker

commands to get the name of the running container or if you're using docker desktop, we can get the name from the docker window directly.



13. Open a new CMD/terminal window and run the following command to copy the license file from your local system to the container identified above. Note – the name of your container might be different.

docker cp <source file path>/entitlement.lic <container name>:<destination file
path>/entitlement.lic

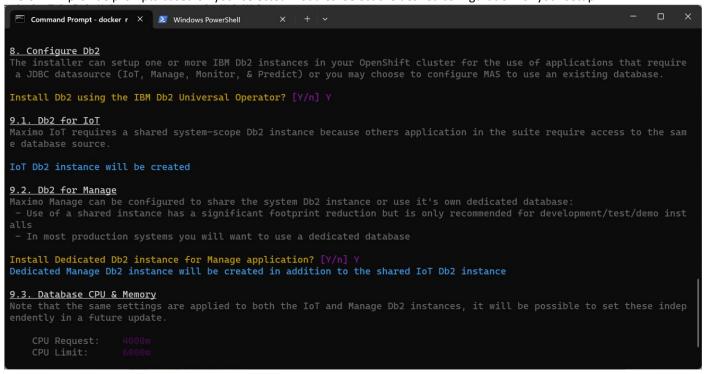


14. Provide your desired environment details as per the prompt on the screen

```
Command Prompt - docker r × Nindows PowerShell
3. Configure Installation
MAS Instance ID > vestmas8
MAS Workspace ID > maximo
MAS Workspace Display Name > maximo
Use online catalog? [y/N] y
MAS Version:
  1. 8.10
  2. 8.9
Select Subscription Channel > 1
For information about your license, see https://ibm.biz/MAS810-License To continue with the installation, you must accept the license terms.
4. License Terms
Do you accept the license terms? [y/N] y
5. Configure Operation Mode
Maximo Application Suite can be installed in a non-production mode for internal development and testing, this setting ca
Use non-production mode? [y/N] y
6. Configure Domain & Certificate Management
Configure Custom Domain [y/N] N
7. Application Selection
Install IoT [y/N]
```

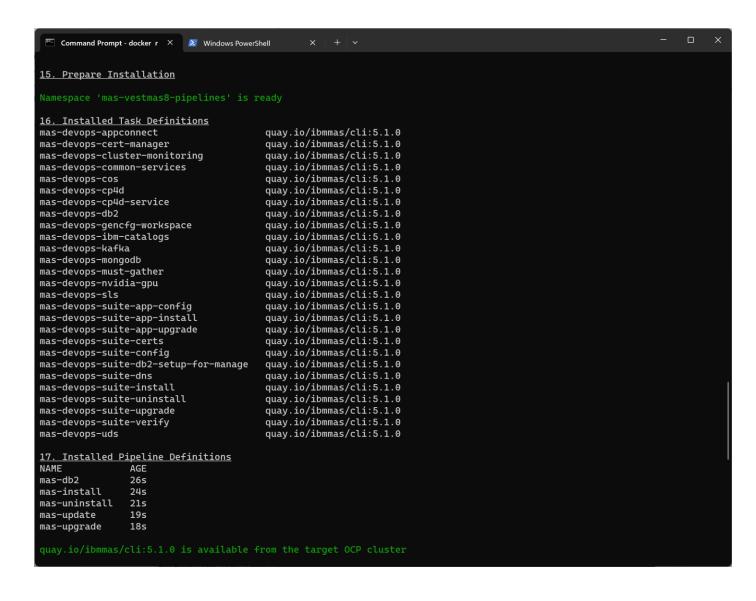
15. Choose your MAS components to be installed. Note – Every component requires a minimum resource to be installed, so ensure that the cluster has got sufficient resources to install the components that you'll be selecting from here. Here's a sample of a selected combination, your selection can be different based on your requirement.

16. The CLI will provide prompts based on your selected modules. Select the desired configuration for your setup.



```
Command Prompt - docker r × 💹 Windows PowerShell
9.4. Database Storage Capacity
Note that the same settings are applied to both the IoT and Manage Db2 instances, it will be possible to set these independently in a future update.
     - Data:
- Backup:
Customize storage capacity? [y/N] N
9. Additional Configuration
Additional resource definitions can be applied to the OpenShift Cluster during the MAS configuration step.
The primary purpose of this is to apply configuration for Maximo Application Suite itself, but you can use this to deplo
Use additional configurations? [y/N] N
10. Configure Storage Class Usage
Maximo Application Suite and it's dependencies require storage classes that support ReadWriteOnce (RWO) and ReadWriteMan y (RWX) access modes:
  - Storage class (ReadWriteOnce): ibmc-block-gold
- Storage class (ReadWriteMany): ibmc-file-gold
Choose your own storage classes anyway? [y/N] N
11. Advanced Settings
Configure Advanced Settings (optional)? [y/N] N
12. Configure IBM Container Registry
13. Configure Product License
License File > /mascli/entitlement.lic
14. Configure UDS
UDS Contact Email > abc@xyz.com
UDS Contact First Name > ABC
UDS Contact Last Name > XYZ
```

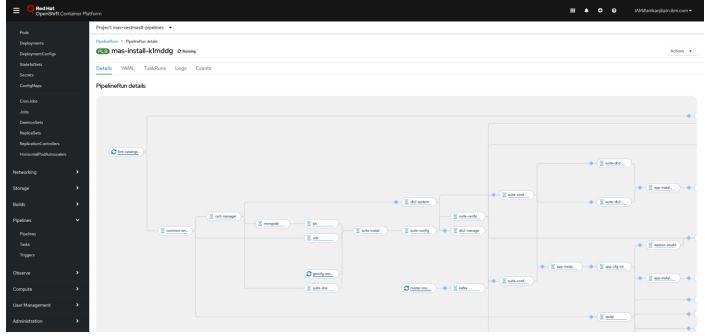
17. Now, the pipeline will get created based on the inputs given.



```
Command Prompt - docker r × 💹 Windows PowerShell
   IBM Maximo Application Suite
   Workspace Name ..... maximo
Operation Mode ..... Non-production
Subscription Channel .... 8.10.x
   IBM Entitled Registry ... cp.icr.io/cp
IBM Open Registry ... icr.io/cpoper
IBM Entitlement Key ... eyJ0eXAi<snip
   IBM Maximo Application Suite Applications
   IBM Suite License Service
   Contact Email ..... abc@xyz.com
   IBM Db2
   System Instance ..... instal Dedicated Manage Instance . instal
   CPU Limit ..... 6000
Memory Request ..... 8Gi
   Temp Storage ...
   <u>Storage Class Configuration</u>
Storage Class Provider ... i
Proceed with these settings [y/N]
```

18. Proceed with your installation, and the pipelines will kick-off the MAS setup.

19. Notice the pipelines created and running to install all selected MAS components.



20. Once the pipeline run is complete, the installation will be complete.



