
Workspace Installation on CentOS 7.x

Table of Contents

WORKSPACE INSTALLATION ON CENTOS 7.X	1
PREREQUISITES.....	3
WORKFLOW.....	3
INSTALL DOCKER.....	4
INSTALL DOCKER COMPOSE.....	5
INSTALL PLANNING ANALYTICS WORKSPACE.....	6

Prerequisites

Items		Details
<input type="checkbox"/>	Planning Analytics environment installed	At least one TM1 database should be running to connect and configure with Workspace
<input type="checkbox"/>	Get the IP address and port number	IP address of TM1 adminhost and httpPortNumber of TM1 database
<input type="checkbox"/>	Server to host Workspace is provisioned	Latest patches are applied and network is configured to internet access
<input type="checkbox"/>	Software is downloaded in the server for Workspace	IBM Planning Analytics Workspace 2.0.xx
<input type="checkbox"/>	Linux admin is available for Workspace installation	Need a root access and ability to perform any custom configuration as needed

Workflow

Tasks		Estimated Duration
<input type="checkbox"/>	Install Docker	30 min
<input type="checkbox"/>	Install Docker Compose	10 min
<input type="checkbox"/>	Install Workspace	30 min
<input type="checkbox"/>	Total	~ 1 hour

This is a scaled down version that highlights the steps to install IBM Planning Analytics Local focused on Planning Analytics Workspace. For full instruction, please refer to

https://www.ibm.com/support/knowledgecenter/en/SSD29G_2.0.0/kc_gen/com.ibm.swg.ba.cognos.ipa.doc_getting_started_toc-gen2.html

Install Docker

Objective

Install the latest supported version of Docker CE. Below are simplified steps for easy understanding of the process. Consult with your IT team and follow the full instruction for completeness.

Full instruction: <https://docs.docker.com/install/linux/docker-ce/centos/>

Steps

```
curl -sSL https://get.docker.com/ | sh
```

```
sudo usermod -a -G docker $USER
```

```
logout/login
```

Check Docker version.

```
docker --version
```

Run following command to start, enable and check the status of Docker.

```
systemctl start docker
```

```
systemctl enable docker
```

```
systemctl status docker
```

Troubleshoot

If you get 'connection refused' error message, make sure internet connection is enabled in your image.

If you get 'Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.39/version: dial unix /var/run/docker.sock: connect: permission denied', your user account hasn't been added to the docker group (`sudo usermod -a -G docker $USER`) or you did not logout/login after adding your account.

Install Docker Compose

Objective:

Install the latest supported version of Docker Compose.

Full instruction: <https://docs.docker.com/compose/install/>

Download link: <https://github.com/docker/compose/releases/latest>

Steps:

Download the current stable release of Docker Compose. Replace the version number to the one desired.

```
sudo curl -L https://github.com/docker/compose/releases/download/1.21.2/docker-  
compose-`uname -s`-`uname -m` -o /usr/local/bin/docker-compose
```

Apply executable permissions to the binary:

```
sudo chmod +x /usr/local/bin/docker-compose
```

Test the installation.

```
docker-compose --version
```

Troubleshoot:

Install Planning Analytics Workspace

Objective:

Install PA Workspace on Docker.

Full instruction:

https://www.ibm.com/support/knowledgecenter/en/SSD29G_2.0.0/com.ibm.swg.ba.cognos.tm1_inst.2.0.0.doc/paw_distributed_install.html

Steps:

Unzip the files. Following example is for the version 2.0.46.

```
unzip ipa_workspace_local_dist_2.0.46.1970.4.zip -d yourOwnDestinationFolder
```

Navigate to yourOwnDestinationFolder.

Run following command to install.

```
./Start.sh
```

The installer will install/update docker images. If the environment doesn't have a GUI configured, you will need to bind the Administration Tool to the publicly accessible IP address of your CentOS installation. To do this, type n and press Enter. Enter the following:

```
export ADMINTOOL_IP=<centos public ip address>
```

```
./Start.sh
```

When prompted, type 'n' or press enter to avoid re-extracting docker images and then type 'y' and enter to access the administration tool.

The default url of the admin tool is <http://127.0.0.1:8888> or <http://<centos public ip address>:8888> for non-gui systems

Accept both license terms.

In the admintool, replace the URI of TM1 admin server, app server gateway and TM1 login server with the ip address or FQDN of the corresponding TM1 tier.

Use httpPortNumber from tm1s.config to update the one for login server URI.

<https://tm1adminhost:5898>

<http://tm1appshost:9510>

<https://tm1serverhost:httpPortNumber>

Validate and Update.

Go to Status tab to check if all services are running properly.

Test PA Workspace.

<http://ipAddressorFQDNofPAWServer>

Troubleshoot:

If you get this error during validate confirm that SSL=T is set in the tm1s.cfg for the server set under TM1 login server:

Error: write EPROTO 139829157459776:error:1408F10B:SSL routines:ssl3_get_record:wrong version number:../deps/openssl/openssl/ssl/record/ssl3_record.c:252:

If you get an error message that the user needs to be assigned to docker group, create a 'docker' group and add the current user.

```
groups
```

```
groupadd docker
```

```
usermod -a -G docker $USER
```

While installing, following error may come up. Make sure there's enough space left for tar file to be unzipped.

```
Error processing tar file(exit status 1): open /usr/lib/x86_64-linux-gnu/gconv/IBM038.so: no space left on device
```

When initiating the install, following error may appear.

```
! docker version is 1.13.1, minimum version required is 17.06
```

Docker has changed the version scheme. If it looks like 1.13.x, that's an old version. Make sure to install the latest version that's supported.