This walkthrough demonstrates the basic use of Docker Data Center.

**Applies to:** The information in this topic applies to DDC.

## Content

This welcome guide illustrates the following tasks:

1. Logging into DDC.
2. Creating a new user.
3. Logging into DTR.
4. Deploying an application.
5. Deploying a WP site

## Prerequisites

You need the following components to complete this walkthrough:

- Browser
- Three node Docker Datacenter (DDC) Sandbox in DigitalOcean.

> Note: All nodes have the Docker Engine, Universal Control Plane (UCP) and Docker Trusted Registry (DTR) installed.
> **Accessing Universal Control Plane**
> Universal Control Plane can be accessed at **https://159.203.230.82:8443** in your browser.
> Login with the following credentials:
> Username: admin
> Password: orca
> **Accessing Docker Trusted Registry**

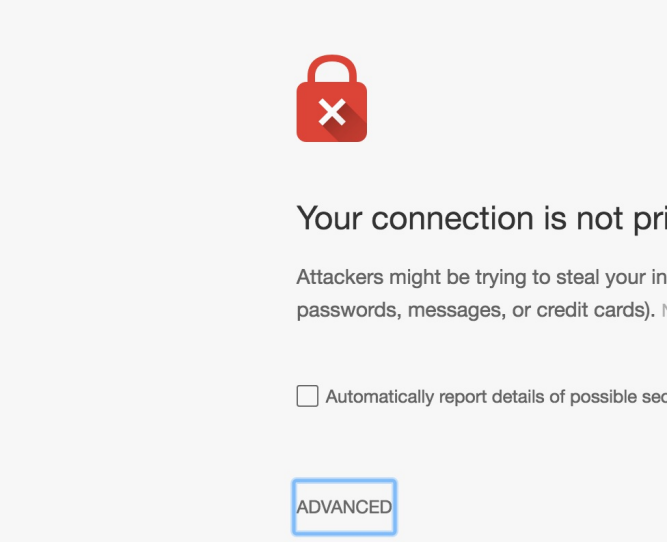
> Docker Trusted Registry can be accessed at **http://159.203.230.82:80** in your browser.

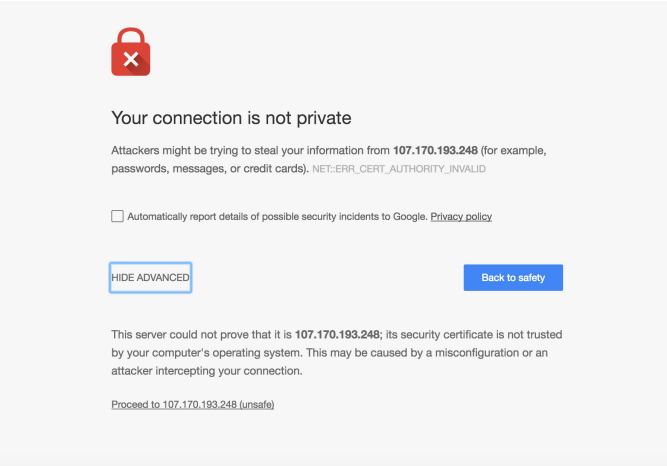
# 1. Logging into UCP

Use a browser to open **https://159.203.230.82:8443**

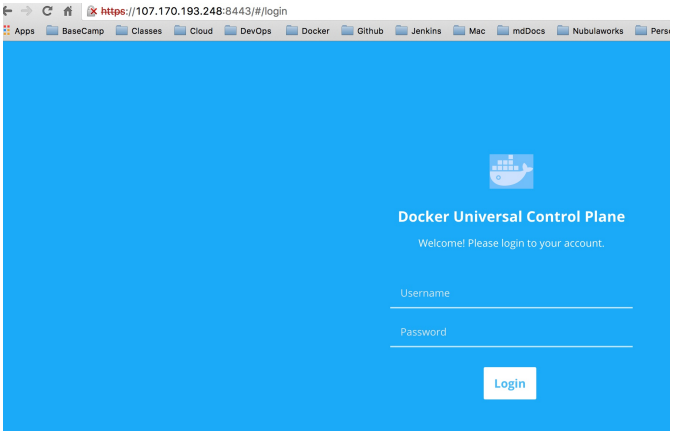
### Log into UCP

1. Open **https://159.203.230.82:8443** in a browser.
2. Click “Advanced” and Proceed to bypass the certificate error page

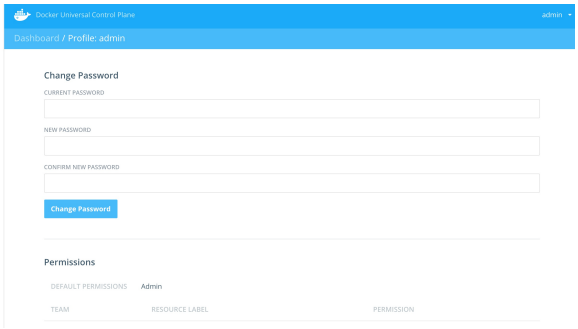



3. Use the default admin credentials to login, UN:admin/PW:orca




4. Select the “admin” drop down box > Profile to change the default admin password upon initial login

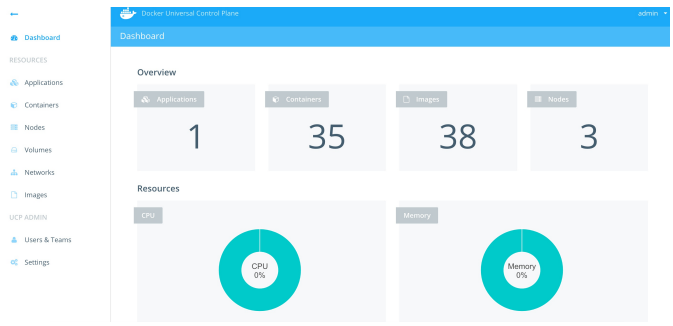



# 2. Creating a new user

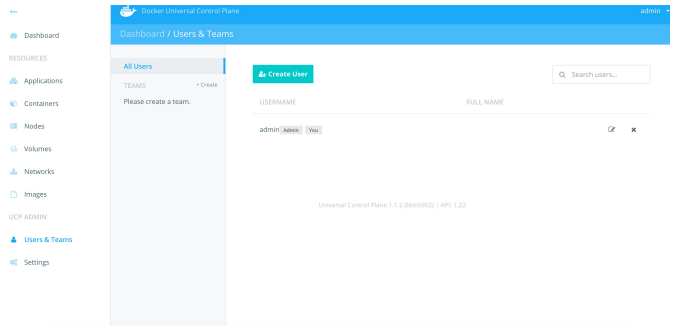
Use a browser to open **https://159.203.230.82:8443**

## Create a new user

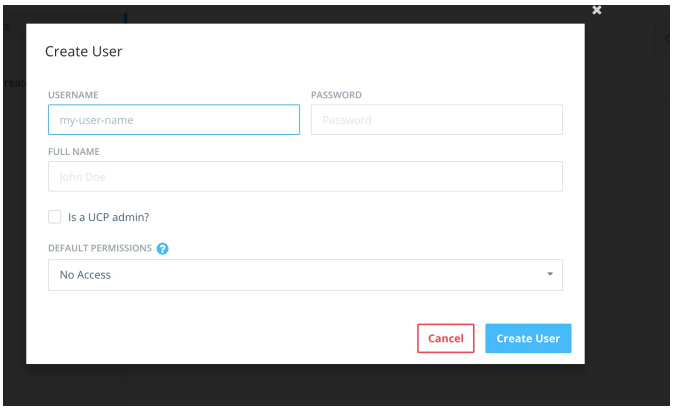
1. Select “Users & Teams” from the UCP dashboard left-side menu pane




2. Select the “Create User” button




3. Enter new user'd information and select "Create User" button to save




# 3. Logging into DTR

Use a browser to open **http://159.203.230.82:80**

### Log into DTR and create a new repository

1. Open **http://159.203.230.82:80** in a browser.
2. Use the default admin credentials to login, UN:admin/PW:admin.
   *add screen shot of dtr login page.*
3. Select "" to change the default admin password upon initial login.
4. Select "Repositories" > "New Repository" to create a new repository.

# 4. Deploying an application

The voting application to be deployed is composed of five(5) services:

- Load balancer
- Redis
- Postgres (PostgreSQL)
- Web services
- Worker containers
- Results containers

**Deploy an application**

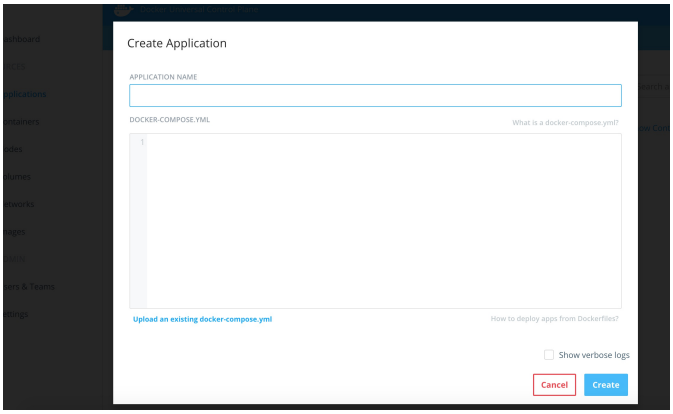
1. On your browser, log in to UCP **https://159.203.230.82:8443**
2. Navigate to the Applications page
3. Click the “Compose Application” button
4. Copy-paste the application definition below into the “DOCKER-COMPOSE.YML” section of the form, and name it ‘vote-app’.

```
version: "2"

services:
  voting-app:
    image: ehazlett/dockercon-voting-app
    ports:
      - "8000:80"
    networks:
      - voteapp
  result-app:
    image: ehazlett/dockercon-result-app
    ports:
      - "5000:80"
    networks:
      - voteapp
  worker:
    image: ehazlett/dockercon-worker
    networks:
      - voteapp
  redis:
    image: redis
```

```
    ports:
      - "6379"
    networks:
      - voteapp
    container_name: redis
  db:
    image: postgres:9.4
    volumes:
      - "db-data:/var/lib/postgresql/data"
    networks:
      - voteapp
    container_name: db
volumes:
  db-data:

networks:
  voteapp:
```




5. Click the Create button, to create the vote-app application
6. Once UCP deploys the vote-app application, you can click on the container, to see its details.
7. In the container details page, search for the Ports the container is exposing. In this case it will be port 8080.
8. Access the vote-app site:

   To vote: **http://<voterapp_voting-app_1 container IP>:8000/**

   To view results: **http://<voterapp_result-app_1 container IP>:5000**

# 5. Deploying a WP site

The WordPress application to be deployed is composed of two services:

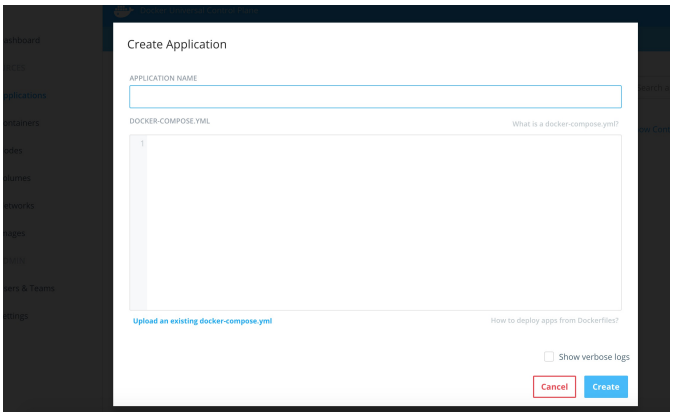
- WordPress: The container that runs Apache, PHP, and WordPress.
- DB: A MariaDB database used for data persistence.

**Deploy a WP site**

1. On your browser, log in to UCP **https://159.203.230.82:8443**
2. Navigate to the Applications page
3. Click the “Compose Application” button
4. Copy-paste the application definition below into the “DOCKER-COMPOSE.YML” section of the form, and name it ‘wordpress’.

```
wordpress:
  image: wordpress
  links:
    - db:mysql
  ports:
    - 8080:80

db:
  image: mariadb
  environment:
    MYSQL_ROOT_PASSWORD: example
```




5. Click the Create button, to create the WordPress application
6. Once UCP deploys the WordPress application, you can click on the “wordpress_wordpress_1 container”, to see its details.
7. In the container details page, search for the Ports the container is exposing. In this case it will be port 8080.
8. Access the WordPress site: **http://<wordpress_wordpress_1 container IP:>8080/**
9. Finish initial configuration by entering the site title, admin UN, admin PW and admin email address.
10. Click the “Install WordPress” button to finish
11. Enter your new credentials to login and customize the WP site.

# Next Steps

This walkthrough shows the basics of using DDC. Here are some tasks that might come next:

- Deploy an application from the CLI.

# See also

https://docs.docker.com/ucp/applications/deploy-app-cli/