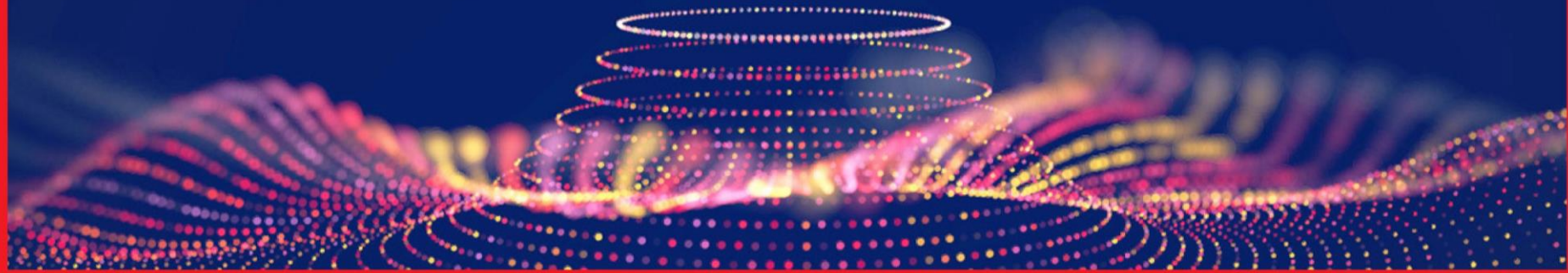
HOUG

HOUG 2019
INNOVATION & INSPIRATION

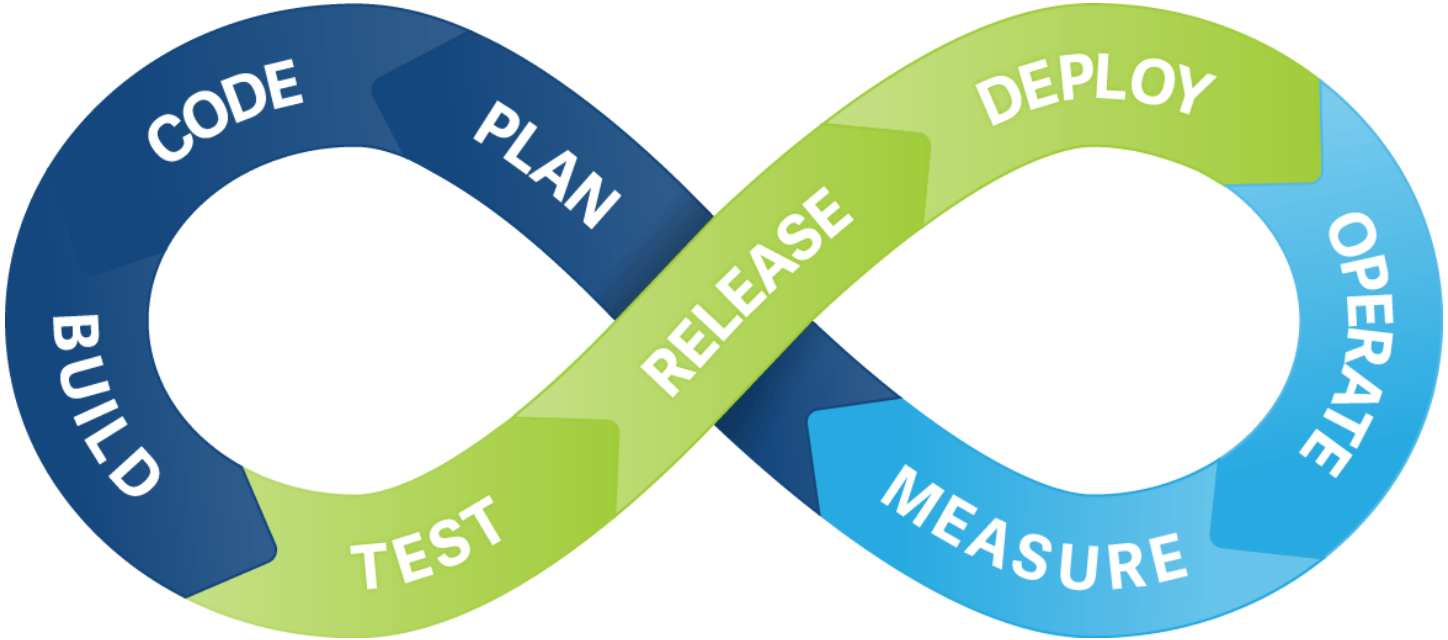
2019. ÁPRILIS 8-10.
SIÓFOK, HOTEL AZÚR

Oracle Developer Cloud használata a gyakorlatban

Magyar Zsanett, Alerant Zrt.



Development and Delivery Automation



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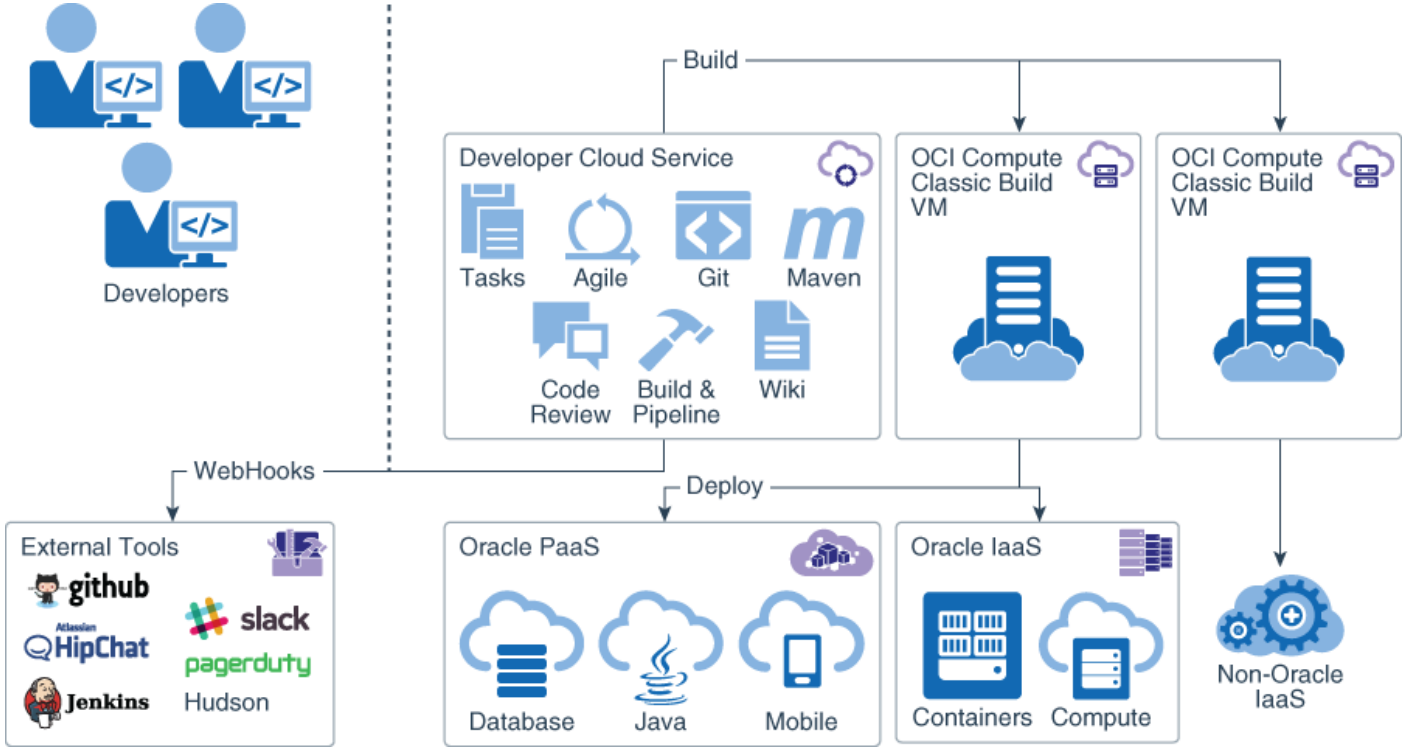
Basic workflow in DevCS



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How to begin…

- Register on https://cloud.oracle.com/tryit
- Prerequisites
  - Create Compartment, Group, Policy
  - Add users to the Identity Domain
  - Create Compute Instane
  - Create Object Storage
- Access to the DevCS
  - Configure Connections to Compute and Storage
  - Create a Project
  - Assign users to the Project

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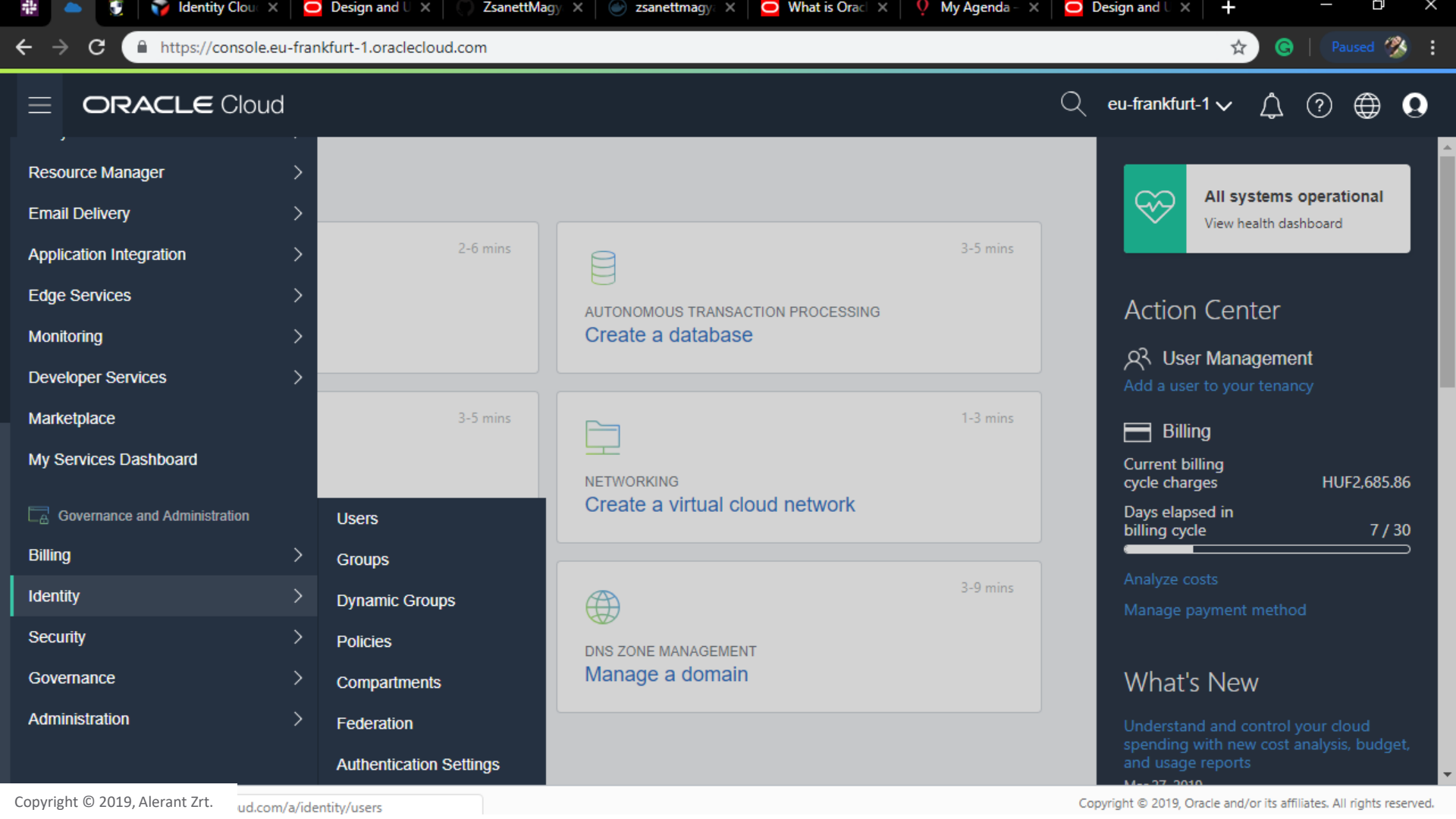

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Identity Clou | Design and U | ZsanettMagy | zsanettmagy | What is Orac | My Agenda - | Design and U
https://console.eu-frankfurt-1.oraclecloud.com/identity/compartments/ocid1.compartment.oc1..aaaaaaaaoytxpilfhtd4fg7bkjhujyqqktxj2huvcnn37qjh...
Paused

C

ACTIVE

HOUG

HOUG compartment for users to try out OCI.

Rename Compartment | Edit Description | Add Tag(s) | Delete

Compartment Information | Tags

Parent Compartment: alerantinc (root)

OCID: ocid1.compartment.oc1..aaaaaaaaoytxpilfhtd4fg7bkjhujyqqktxj2huvcnn37qjhynkn7wtakrya Hide Copy

Authorized: Yes

Created: Sat, 02 Mar 2019 13:50:08 GMT

Resources

Child Compartments (0)

Child Compartments

Create Compartment

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References
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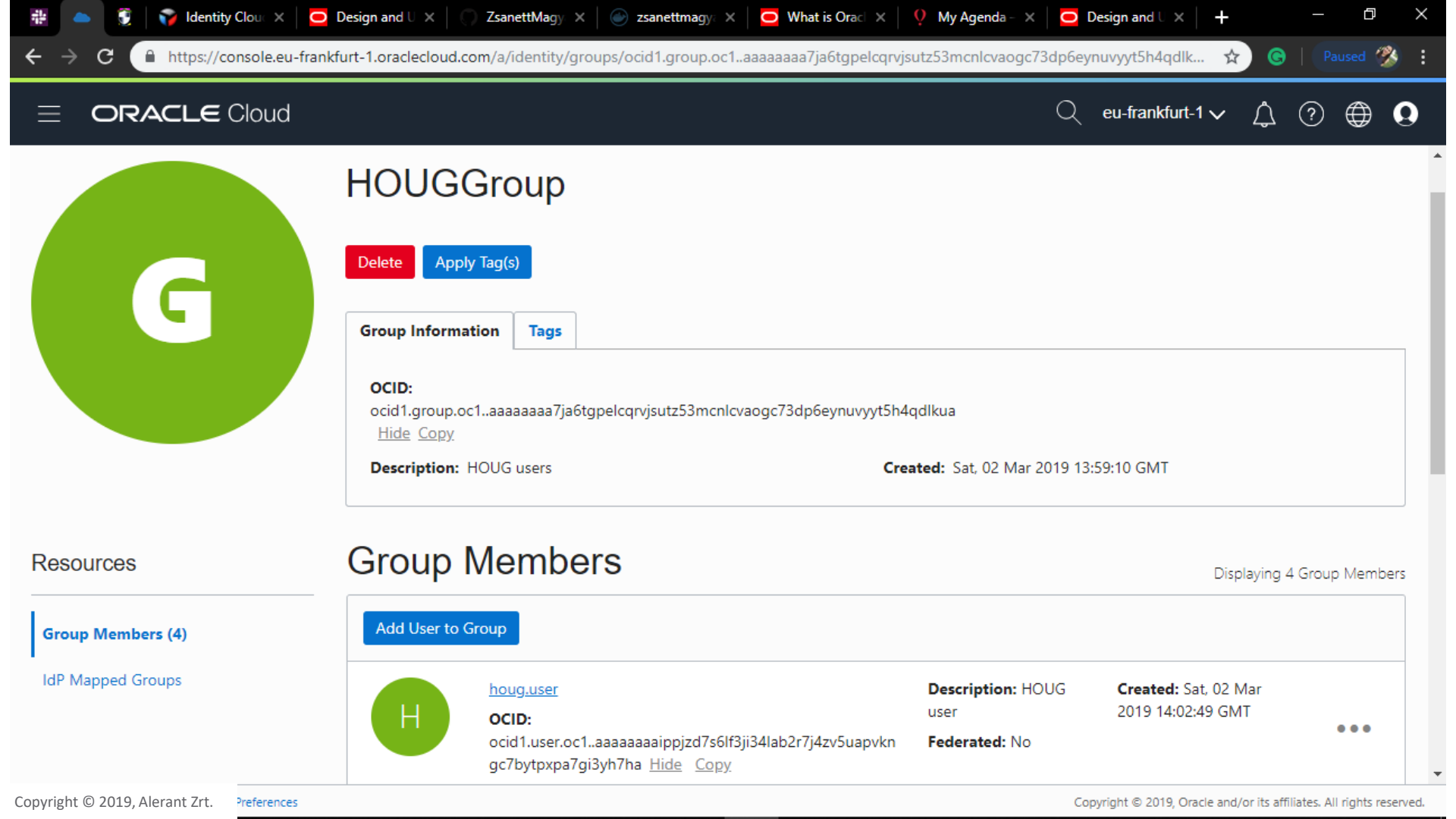

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Identity Clou | Design and U | ZsanettMagy | zsanettmagy | What is Orac | My Agenda - | Design and U

https://console.eu-frankfurt-1.oraclecloud.com/a/identity/users/ocid1.user.oc1..aaaaaaaaippjzd7s6lf3ji34lab2r7j4zv5uapvkngc7bytpxpa7gi3yh7ha

Paused

ORACLE Cloud

eu-frankfurt-1

houg.user

Description: HOUG user

Create/Reset Password | Enable Multi-Factor Authentication | Edit User Capabilities | Unblock | Delete | Apply Tag(s)

ACTIVE

User Information | Tags

OCID: ocid1.user.oc1..aaaaaaaaippjzd7s6lf3ji34lab2r7j4zv5uapvkngc7bytpxpa7gi3yh7ha Hide Copy

Status: Active

Created: Sat, 02 Mar 2019 14:02:49 GMT

Federated: No

Multi-factor authentication: Disabled

Email :

Capabilities

Local password: Yes

SMTP credentials: Yes

API keys: Yes

Customer secret keys: Yes

Auth tokens: Yes

Resources

API Keys (1)

Auth Tokens (0)

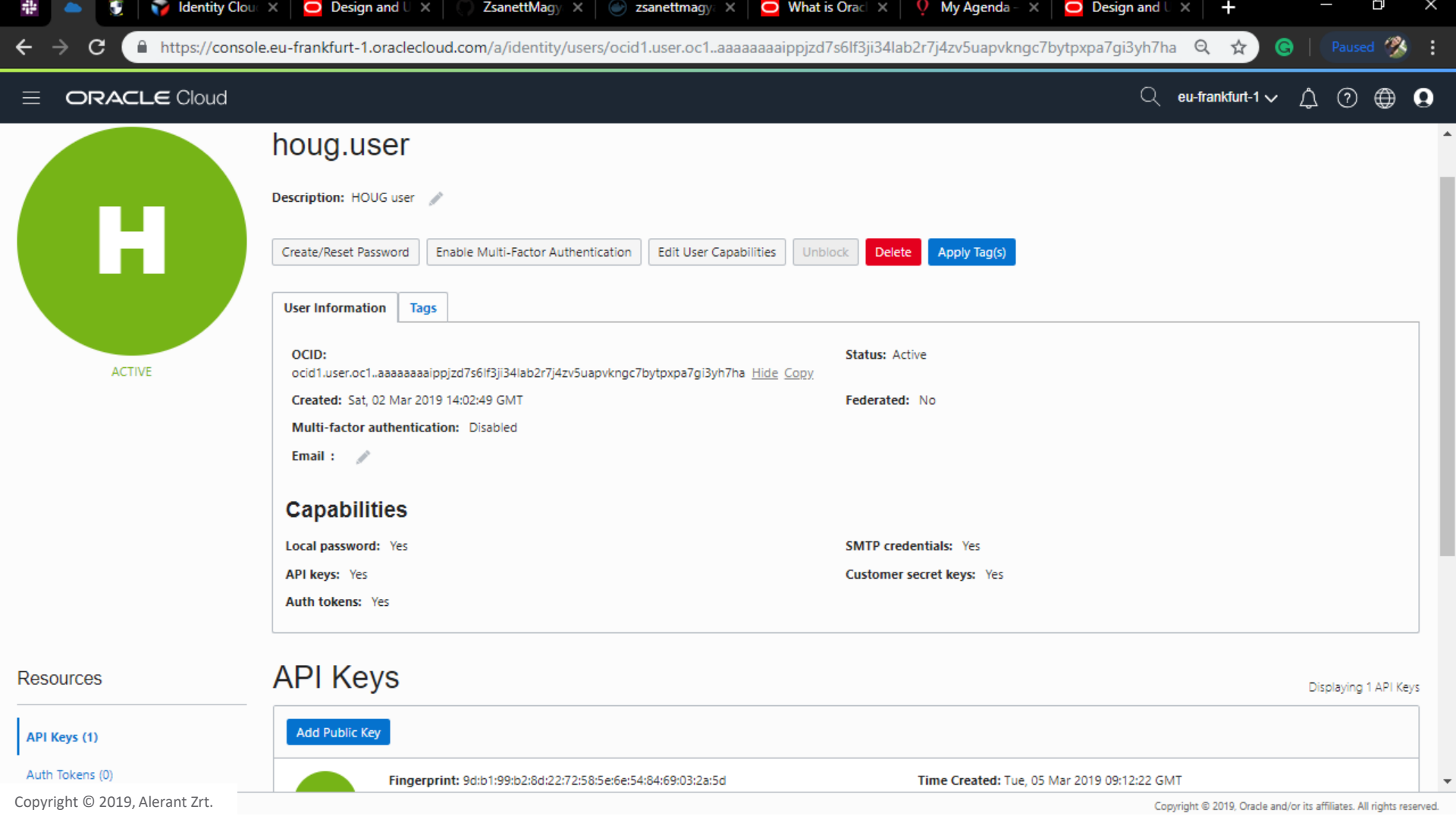
API Keys

Displaying 1 API Keys

Add Public Key

Fingerprint: 9d:b1:99:b2:8d:22:72:58:5e:6e:54:84:69:03:2a:5d

Time Created: Tue, 05 Mar 2019 09:12:22 GMT



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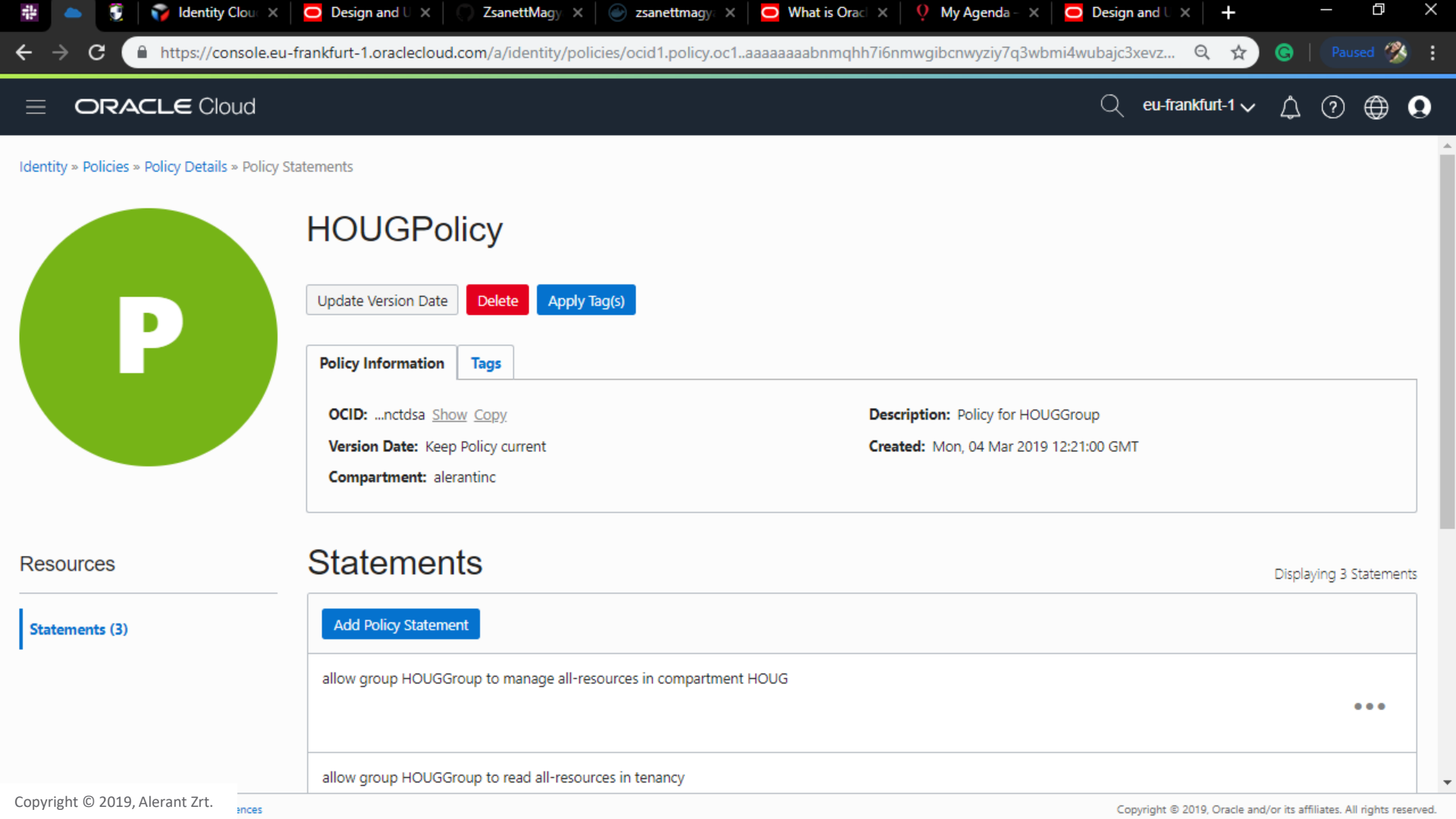

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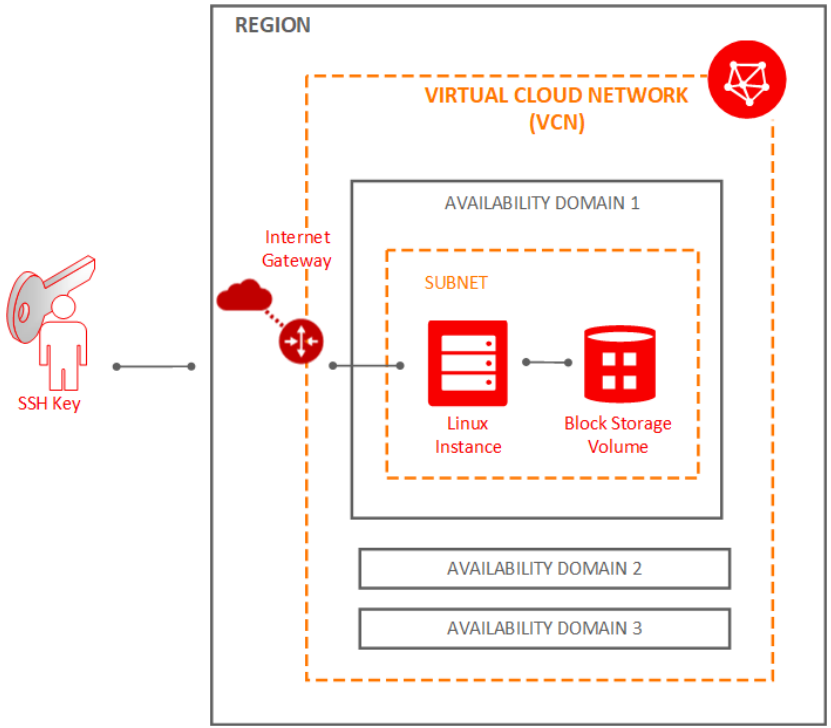
Connect to the OCI

You need to connect to the Oracle Cloud Infrastructure (OCI)

- **Compute** or OCI Compute Classic
  - you need to have **a virtual cloud network** (VCN) and subnet
- **Object Storage** or OCI Object Storage Classic



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AVAILABLE

HOUG_Network

Terminate | Apply Tag(s)

VCN Information | Tags

CIDR Block: 10.0.0.0/16

Compartment: alerantinc (root)/HOUG

Created: Tue, 05 Mar 2019 08:38:26 GMT

OCID: ...odzrqa Show Copy

Default Route Table: Default Route Table for HOUG_Network

DNS Domain Name: hougnetwork... Show Copy

Resources

- **Subnets (3)**
- Route Tables (1)
- Internet Gateways (1)
- Dynamic Routing Gateways (0)

Subnets *in* HOUG *Compartment*

Create Subnet

Sort by: Created Date (Desc)

Displaying 3 Subnets Page 1

	CIDR	Subnet	Route	DHCP
Public Subnet unuh:EU-FRANKFURT-1	**Block:** 10.0.2.0/2	**Type:** Availability	**Table:** Default	**Options:** Default

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HOUG_instance_1

RUNNING

Create Custom Image | Start | Stop | Reboot | Terminate | Apply Tag(s) | Create Instance Configuration

Instance Information | Tags

Instance Information

Availability Domain: unuh:EU-FRANKFURT-1-AD-1

Fault Domain: FAULT-DOMAIN-3

Region: eu-frankfurt-1

Shape: VM.Standard2.1

Virtual Cloud Network: HOUG_Network

Maintenance Reboot: -

Image: Oracle-Linux-7.6-2019.02.20-0

OCID: ...pkxggq Show Copy

Launched: Tue, 05 Mar 2019 08:41:45 GMT

Compartment: alerantinc (root)/HOUG

Launch Mode: NATIVE

Primary VNIC Information

Private IP Address: 10.0.0.2

Public IP Address: 130.61.33.21

Internal FQDN: houg-instance-1... Show Copy

Subnet: Public Subnet unuh:EU-FRANKFURT-1-AD-1

This Instance's traffic is controlled by its firewall rules in addition to the associated Subnet's Security Lists

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References
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Creating a Bucket

- In the Oracle Cloud Infrastructure Object Storage service, a **bucket** is a container for storing **objects** in a compartment within an Object Storage namespace.

- A bucket is associated with a single **compartment**.

- The compartment has **policies** that indicate what actions a user can perform
  - on a bucket and
  - all the objects in the bucket.

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https://console.eu-frankfurt-1.oraclecloud.com/a/storage/objects/alerantinc/HOUG_Bucket

Paused

ORACLE Cloud

eu-frankfurt-1

Object Storage » Bucket Details

HOUG_Bucket

Change Compartment | Update Visibility | Delete | Apply Tag(s)

Bucket Information | Tags

Namespace: alerantinc

Storage Tier: Standard

ETag: 94c4a3c3-f952-4de7-818c-8b6be5f50f3c

Approximate Count: 0 objects

Encryption Key: None Assign

Created: Tue, 05 Mar 2019 08:51:47 GMT

Compartment: ...takrya Show Copy

Visibility: Private

Approximate Size: 0 bytes

Developer tools are available for advanced object operations.

Resources

Objects

Objects

Upload Object | Restore Object

Search Objects by prefix

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Get the OCI Input Values

To connect to OCI, you need

- the account's **Tenancy OCID**,
- home region,
- the **compartment's OCID** that hosts DevCS resources, and
- the **user's OCID** and **fingerprint**
- OCI Object **Storage namespace**.

You can get these values from the OCI Console pages.

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https://houg-dcsinstance-alerantinc.developer.ocp.oraclecloud.com/houg-dcsinstance-alerantinc/#?orgTab=ociaccount

ORACLE Developer Cloud Service

ZM

Organization

Projects | OCI Account | Build Virtual Machines | Virtual Machines Templates | Properties

Account Type

Edit

OCI

OCI Credentials

Enter your OCI credentials below. We will use this account for storing artifacts and running builds.

* Tenancy OCID	ocid1.tenancy.oc1..aaaaaaaacelruyjaletjz4s6ne2wkhig2ewciqs7kwffldduеb732w2s3bjq
* User OCID	ocid1.user.oc1..aaaaaaaaippjzd7s6lf3ji34lab2r7j4zv5uapvkngc7bytpxpa7gi3yh7ha
* Home Region	EU-FRANKFURT-1
* Private Key	**********
Passphrase	
* Fingerprint	**********

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DEMO

How to use the DevCS?

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Create a DevCS Project

- You must create an **instance** of DevCS before you can start using it

- From the Organization page, you can create an
  - *empty* project,
  - a project *with a Git repository*,
  - or create a project *from a template*.

- To upload application files soon after creating a project, create a project **with an initial Git repository**. https://github.com/ZsanettMagyar/flask

- Use the Maven **repository** to upload library files and dependencies.

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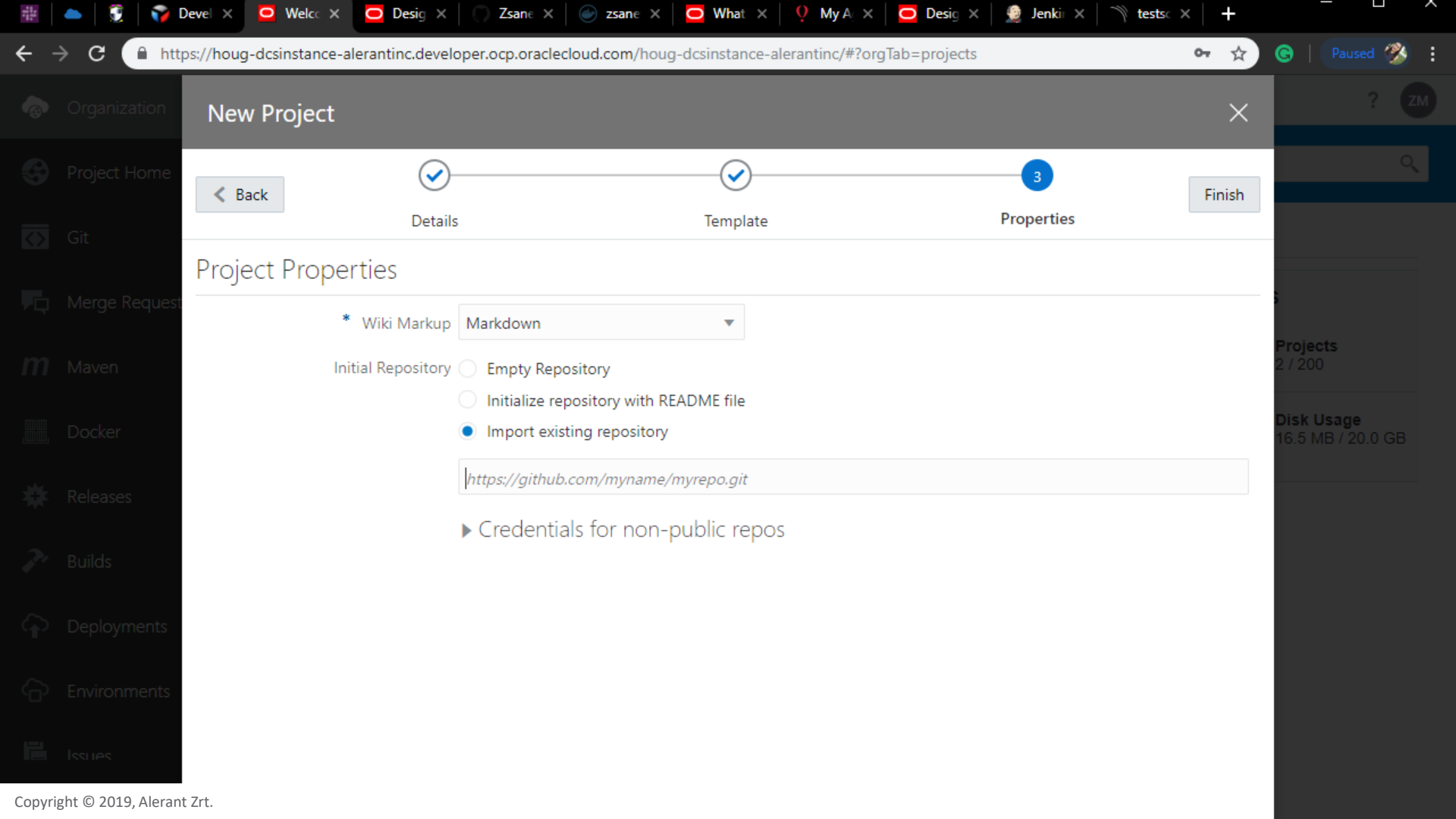

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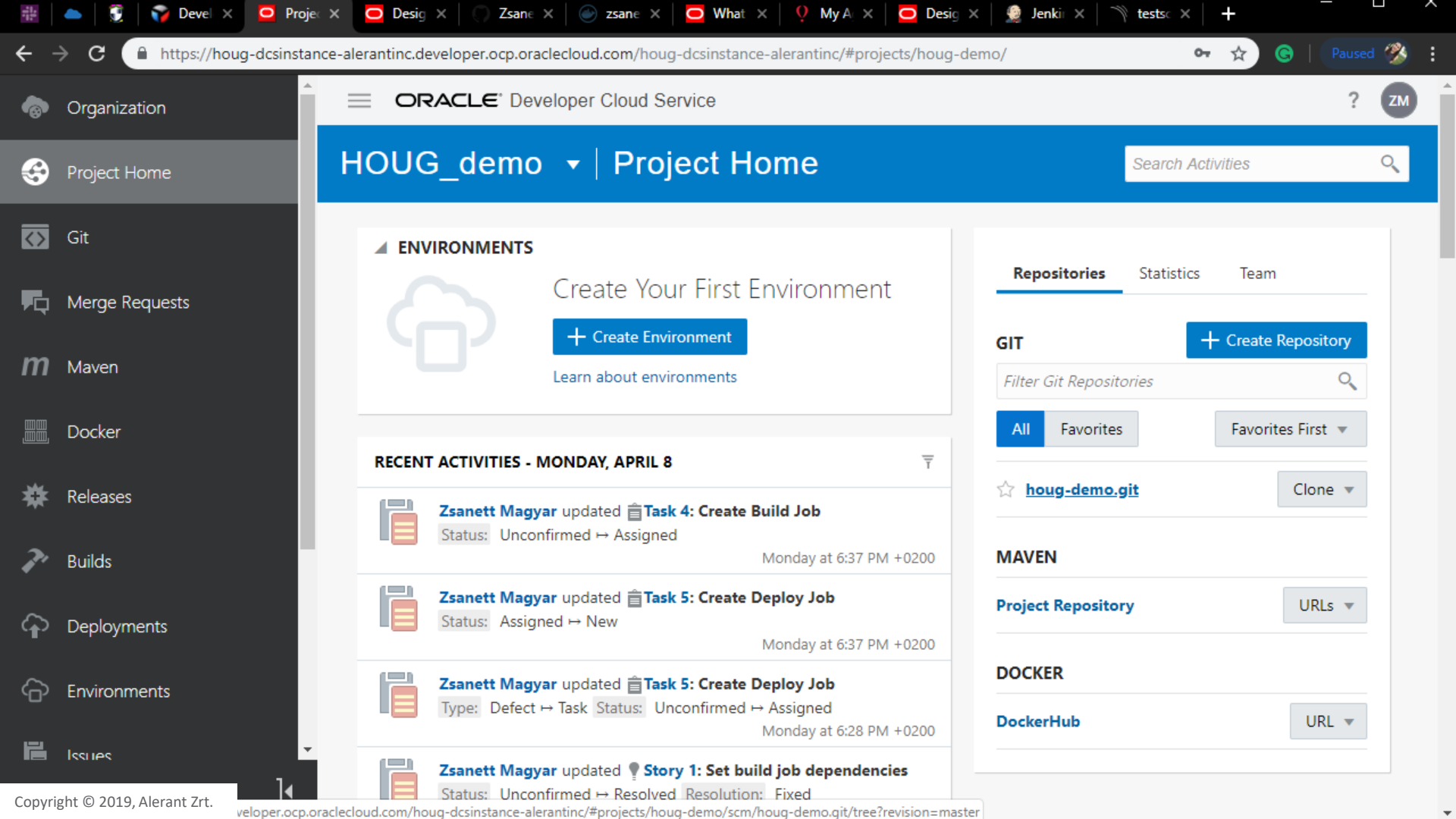
https://houg-dcsinstance-alerantinc.developer.ocp.oraclecloud.com/houg-dcsinstance-alerantinc/#projects/houg-demo/
Paused
Organization
Project Home
Git
Merge Requests
Maven
Docker
Releases
Builds
Deployments
Environments
Issues
ORACLE Developer Cloud Service
ZM
HOUG_demo | Project Home
Search Activities
ENVIRONMENTS
Create Your First Environment
Create Environment
Learn about environments
RECENT ACTIVITIES - MONDAY, APRIL 8
Zsanett Magyar updated Task 4: Create Build Job
Status: Unconfirmed ↦ Assigned
Monday at 6:37 PM +0200
Zsanett Magyar updated Task 5: Create Deploy Job
Status: Assigned ↦ New
Monday at 6:37 PM +0200
Zsanett Magyar updated Task 5: Create Deploy Job
Type: Defect ↦ Task Status: Unconfirmed ↦ Assigned
Monday at 6:28 PM +0200
Zsanett Magyar updated Story 1: Set build job dependencies
Status: Unconfirmed ↦ Resolved Resolution: Fixed
Repositories
Statistics
Team
GIT
Create Repository
Filter Git Repositories
All
Favorites
Favorites First
houg-demo.git
Clone
MAVEN
Project Repository
URLs
DOCKER
DockerHub
URL
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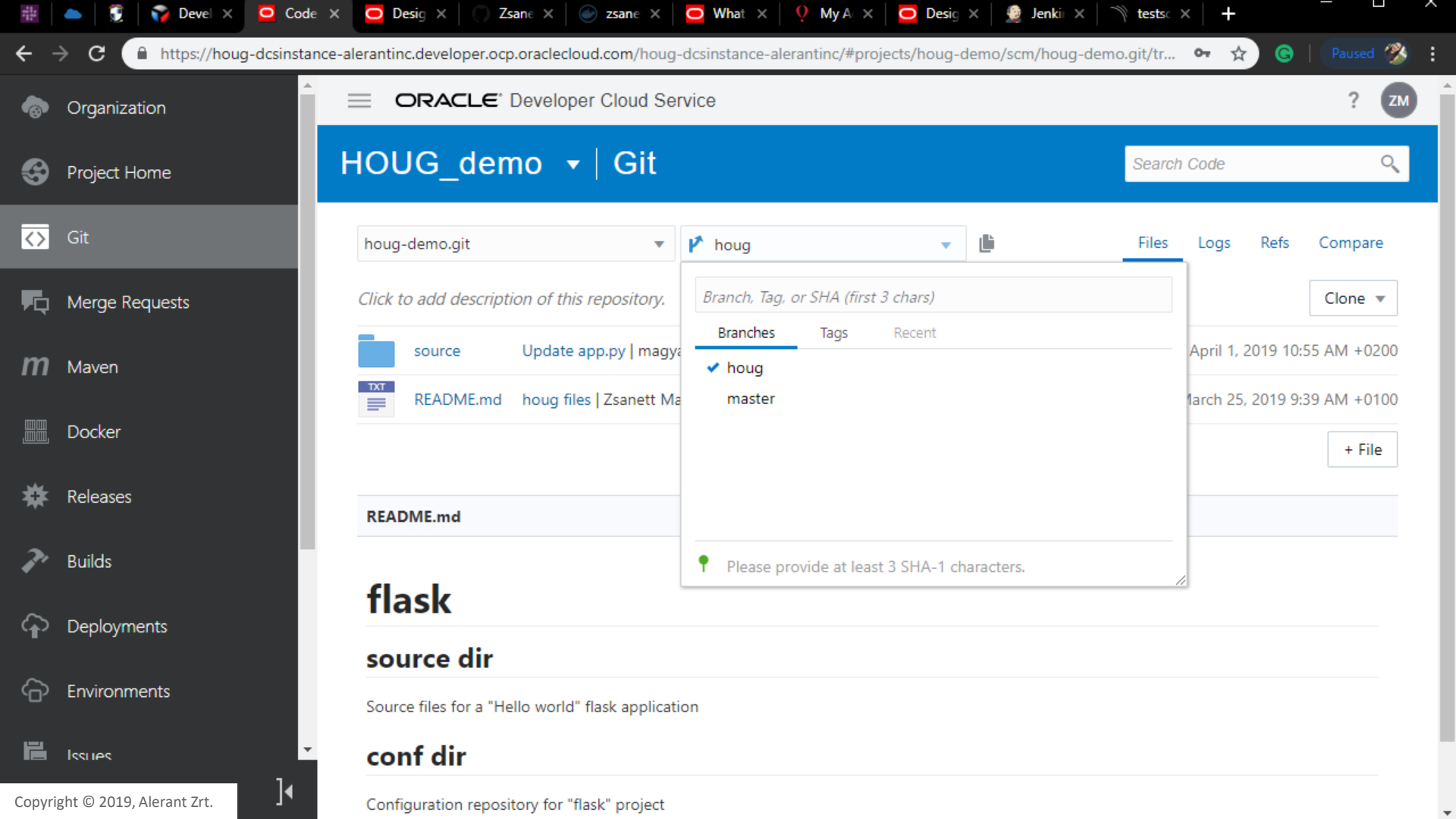
veloper.ocp.oraclecloud.com/houg-dcsinstance-alerantinc/#projects/houg-demo/scm/houg-demo.git/tree?revision=master



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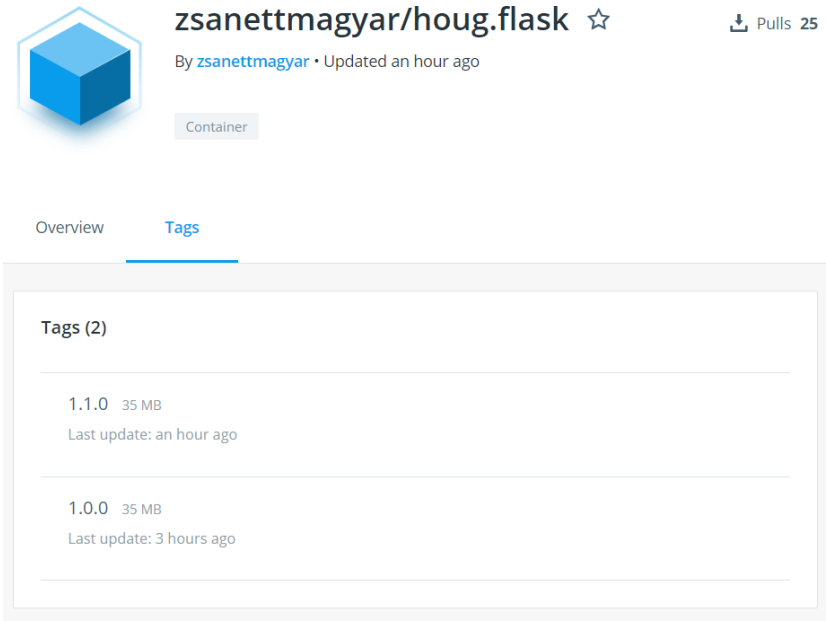
Access external Docker registries

- you can link an **external Docker registry**, such as DockerHub, to your project

- https://hub.docker.com/r/zsanettmagyar/houg.flask



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https://hub.docker.com/r/zsanettmagyar/houg.flask/tags

dockercon19 Join your peers at DockerCon in San Francisco: April 29th – May 2nd. For a limited time: get 10% off with code: DockerID

docker hub | Search for great content (e.g., mysql) | Explore | Pricing | Sign In | Sign Up

zsanettmagyar/houg.flask ☆

Pulls 28

By zsanettmagyar • Updated 10 days ago

Container

Overview | Tags

Tags (2)

1.1.0 35 MB

Last update: 10 days ago

1.0.0 35 MB

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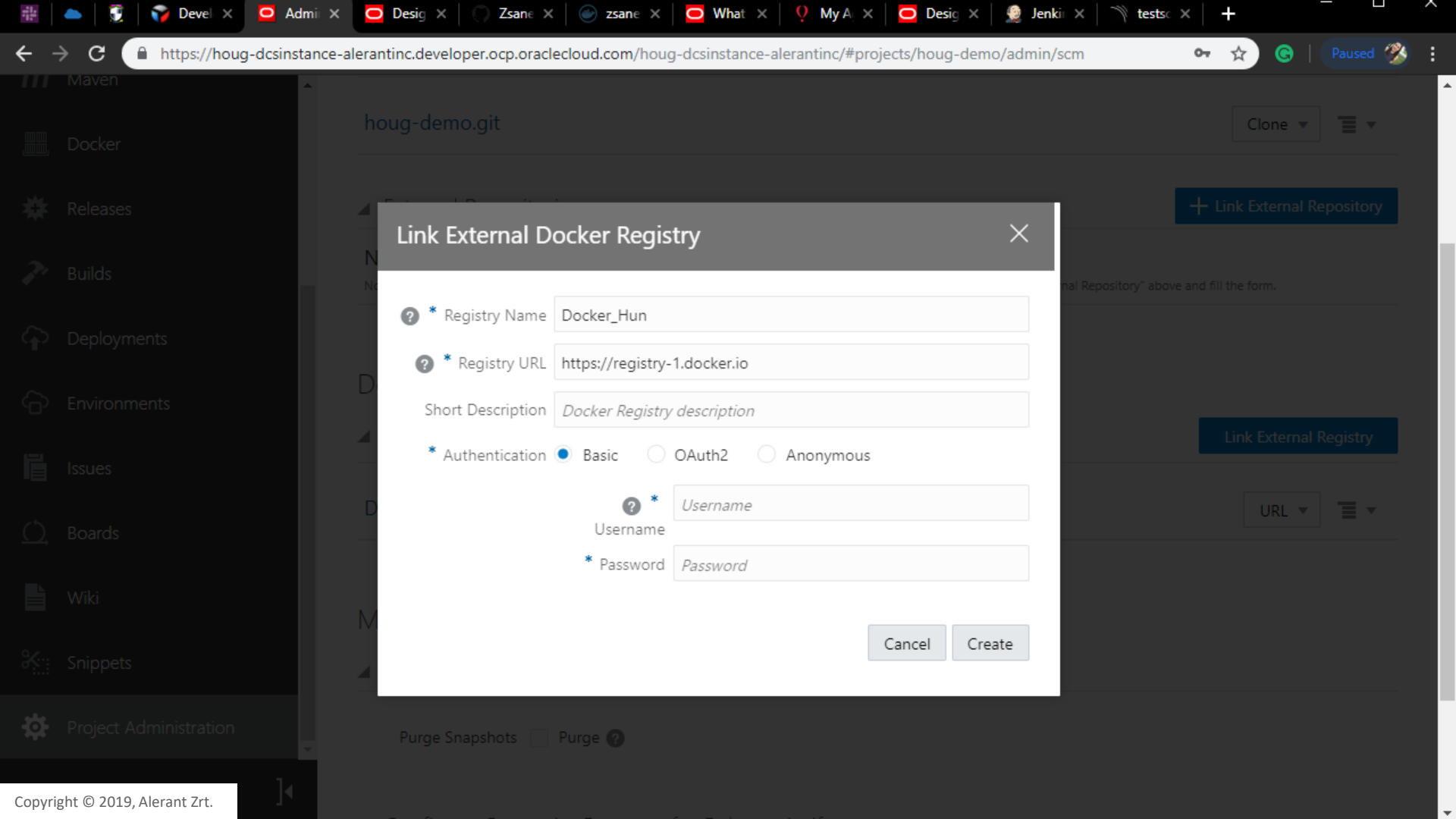

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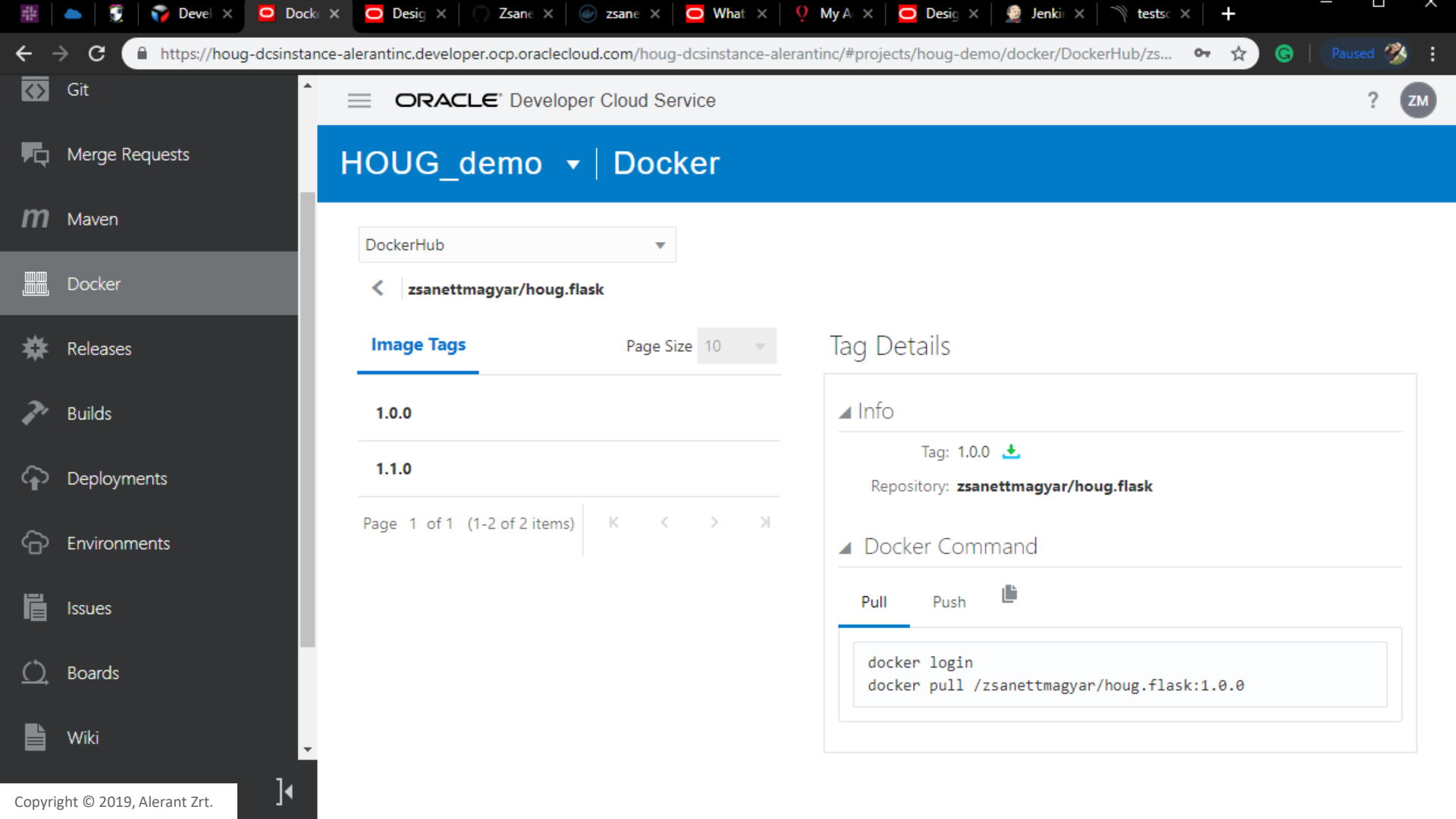
https://houg-dcsinstance-alerantinc.developer.ocp.oraclecloud.com/houg-dcsinstance-alerantinc/#projects/houg-demo/docker/DockerHub/zs...
Paused
Git
Merge Requests
Maven
Docker
Releases
Builds
Deployments
Environments
Issues
Boards
Wiki
ORACLE Developer Cloud Service
ZM
HOUG_demo | Docker
DockerHub
zsanettmagyar/houg.flask
Image Tags
Page Size 10
1.0.0
1.1.0
Page 1 of 1 (1-2 of 2 items)
Tag Details
Info
Tag: 1.0.0
Repository: zsanettmagyar/houg.flask
Docker Command
Pull
Push
docker login
docker pull /zsanettmagyar/houg.flask:1.0.0
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Build applications

- A **Build Virtual Machine (VM)** is
  - an OCI Compute or an OCI Compute Classic VM that runs builds of jobs defined in the DevCS projects.
- A **Build VM Template** defines
  - the operating system and the software installed on Build VMs.
- A **Job** is
  - a configuration that defines the builds of your application.
- A **Build** is
  - a result of a job's run.

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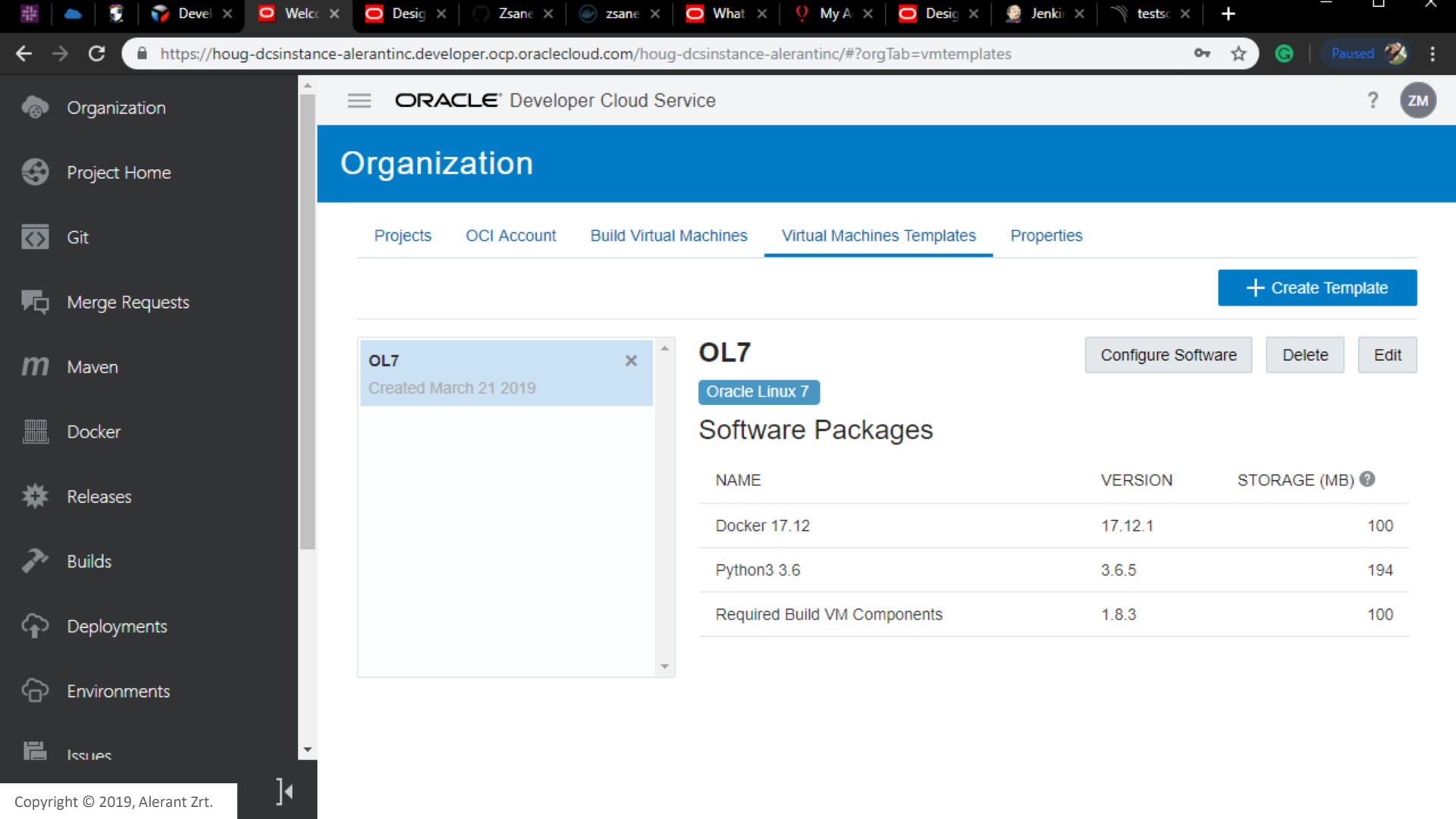
https://houg-dcsinstance-alerantinc.developer.ocp.oraclecloud.com/houg-dcsinstance-alerantinc/#?orgTab=vmtemplates
Paused
Organization
Project Home
Git
Merge Requests
Maven
Docker
Releases
Builds
Deployments
Environments
Issues
ORACLE Developer Cloud Service
ZM
Organization
Projects
OCI Account
Build Virtual Machines
Virtual Machines Templates
Properties
Create Template
OL7
Created March 21 2019
OL7
Configure Software
Delete
Edit
Oracle Linux 7
Software Packages
NAME
VERSION
STORAGE (MB)
Docker 17.12
17.12.1
100
Python3 3.6
3.6.5
194
Required Build VM Components
1.8.3
100
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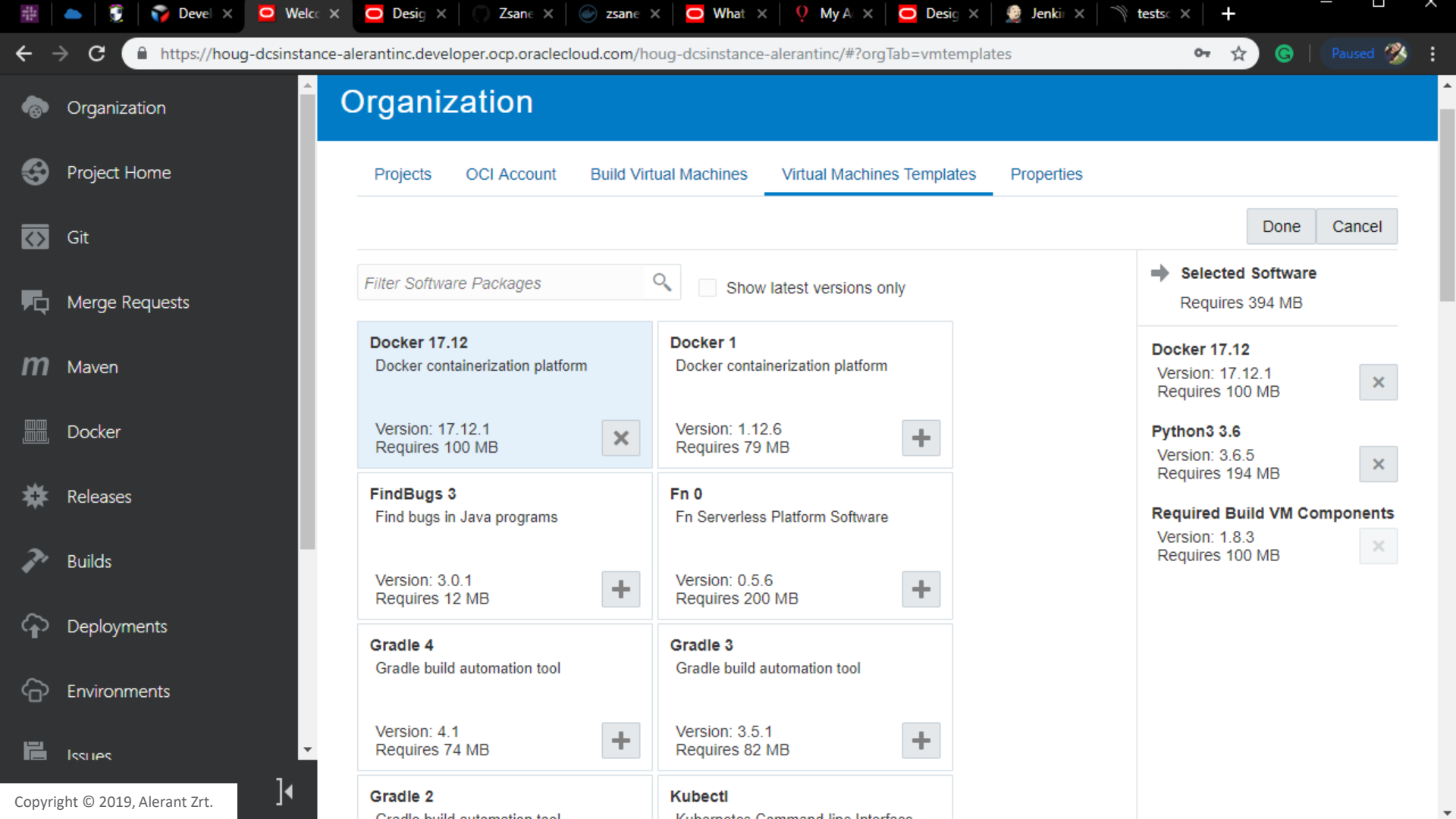

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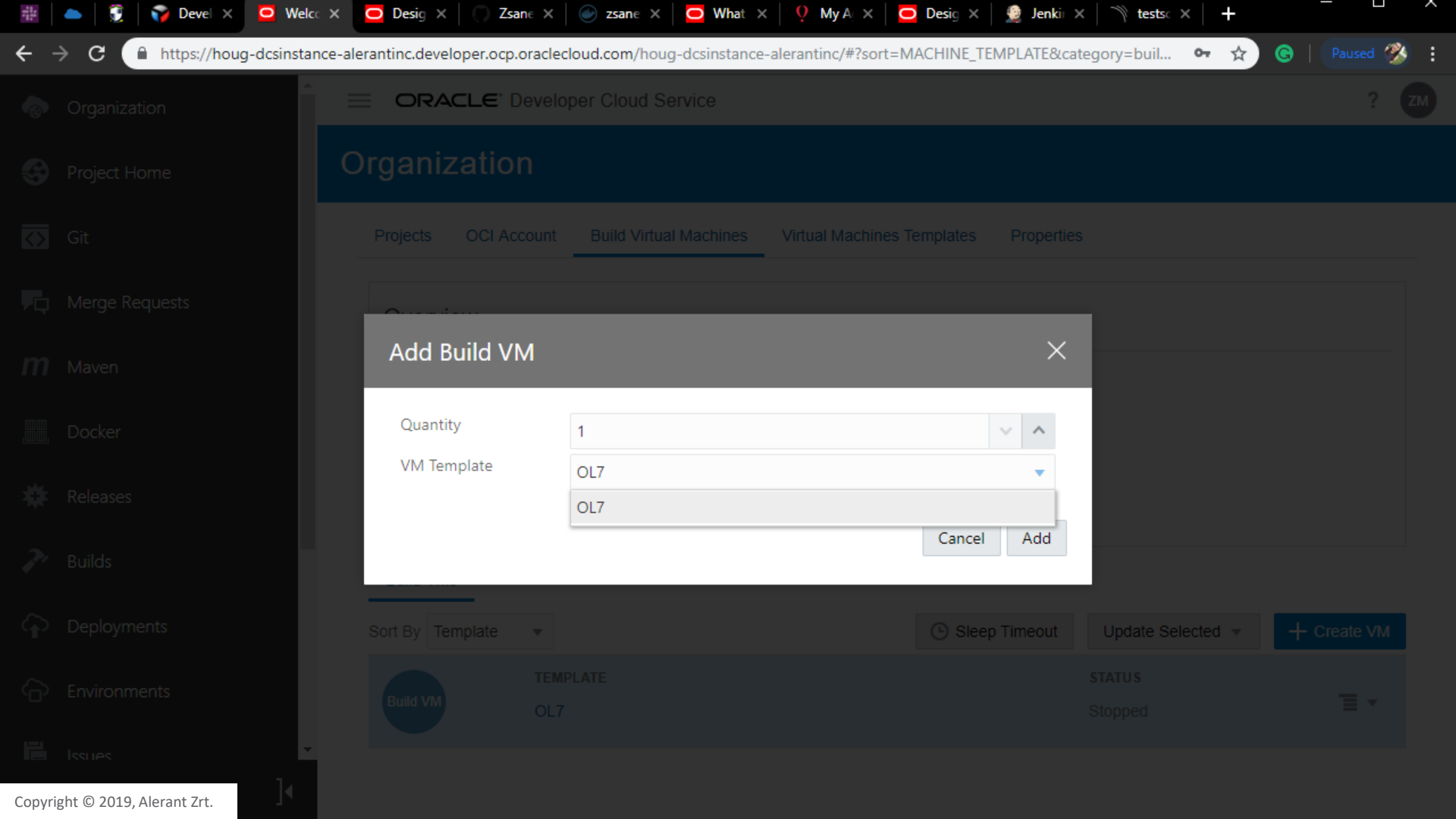

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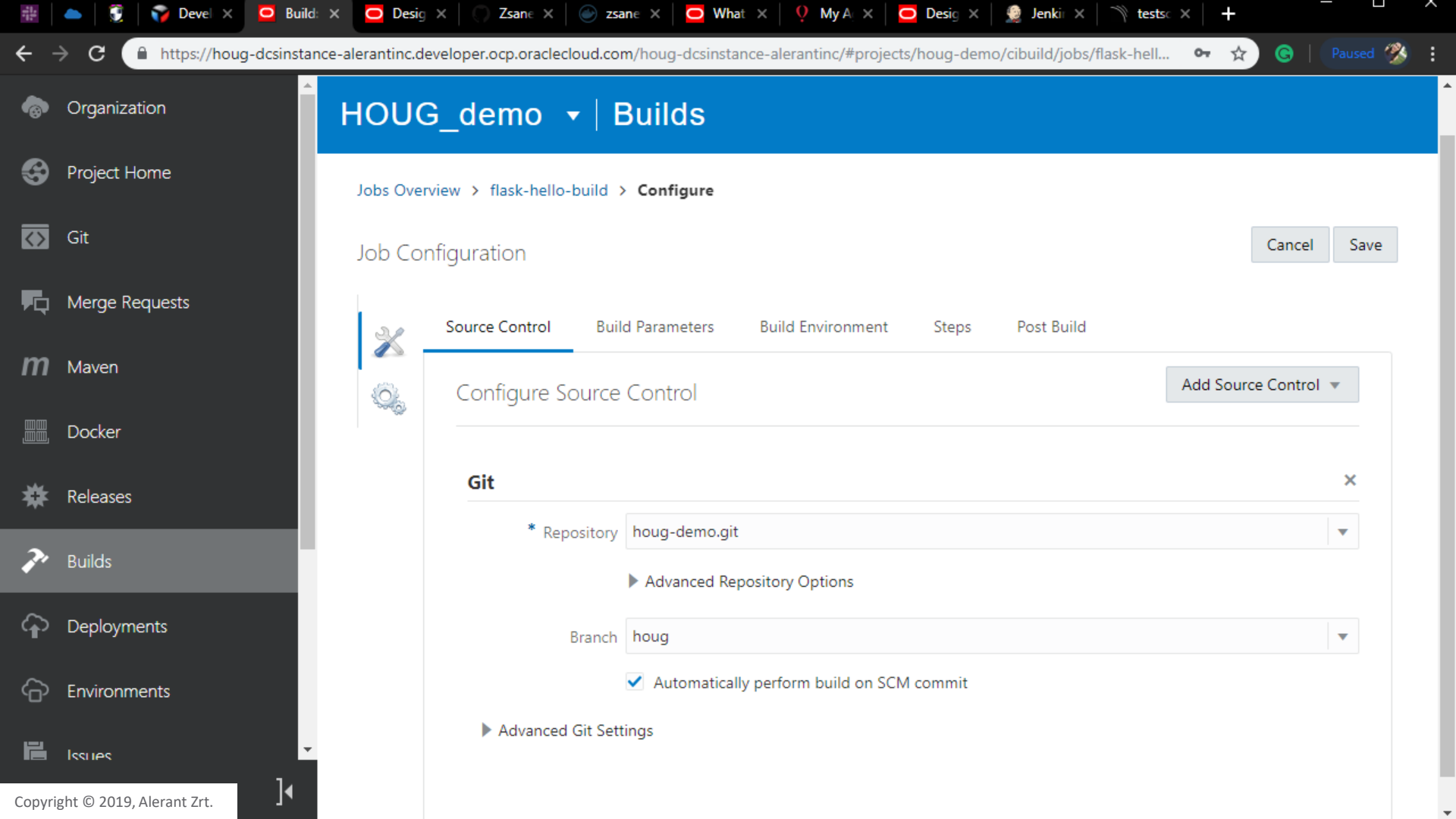

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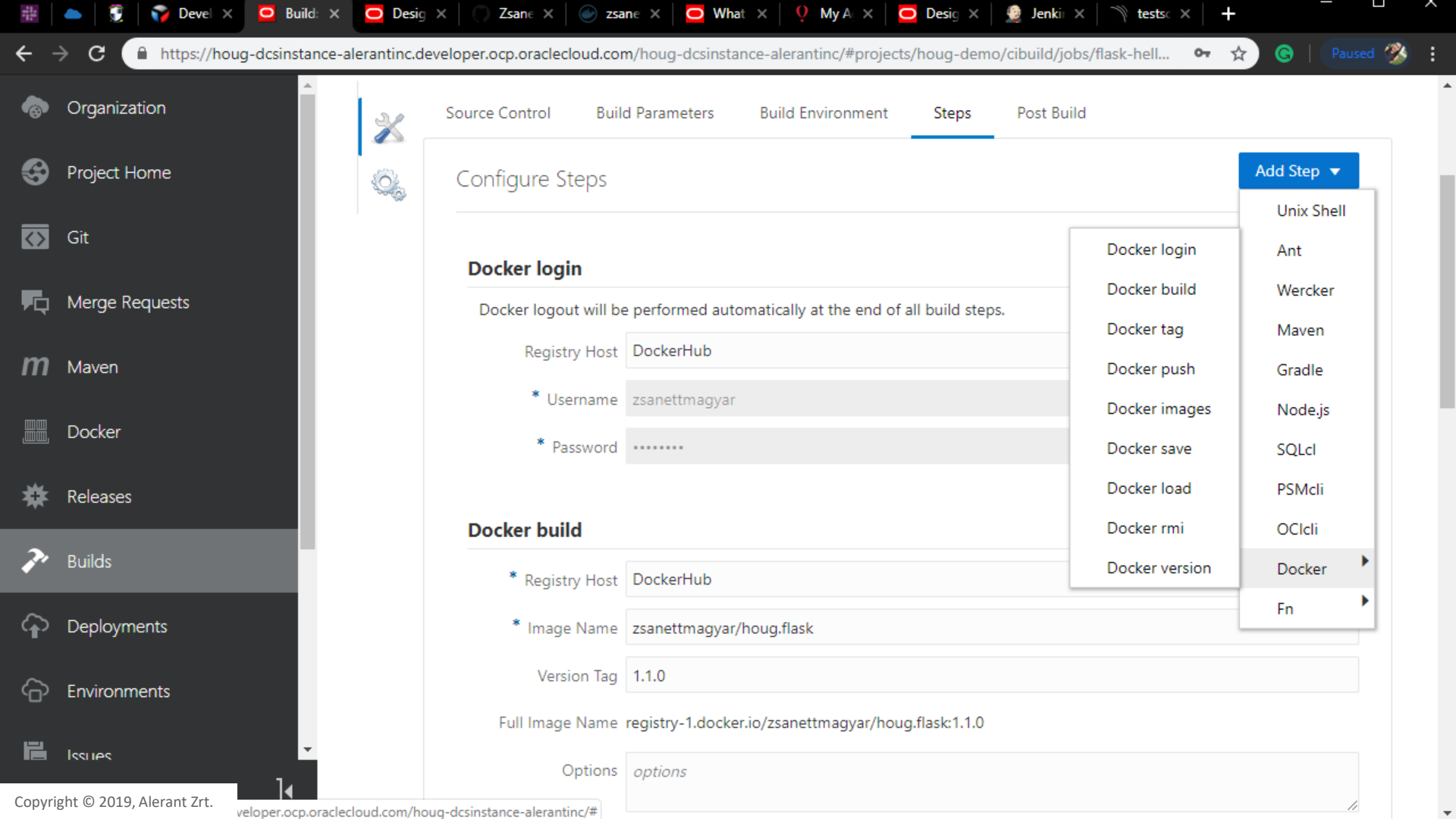

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Organization
Project Home
Git
Merge Requests
Maven
Docker
Releases
Builds
Deployments
Environments
Issues

```
[2019-04-01 09:02:19]  ---> f5507c704de7
[2019-04-01 09:02:19] Successfully built f5507c704de7
[2019-04-01 09:02:19] Successfully tagged registry-1.docker.io/zsanettmagyar/houg.flask:1.1.0
[2019-04-01 09:02:19] Using docker /bin/docker
[2019-04-01 09:02:19] /bin/docker push registry-1.docker.io/zsanettmagyar/houg.flask:1.1.0
[2019-04-01 09:02:20] The push refers to repository [registry-1.docker.io/zsanettmagyar/houg.flask]
[2019-04-01 09:02:20] ddba0ba06572: Preparing
[2019-04-01 09:02:20] 6b0dca259f93: Preparing
[2019-04-01 09:02:20] 0937d5cf0d1f: Preparing
[2019-04-01 09:02:20] 5133232c669f: Preparing
[2019-04-01 09:02:20] 30e8a3d88591: Preparing
[2019-04-01 09:02:20] fd8fae5cd65a: Preparing
[2019-04-01 09:02:20] 6b68dfad3e66: Preparing
[2019-04-01 09:02:20] cd7100a72410: Preparing
[2019-04-01 09:02:20] fd8fae5cd65a: Waiting
[2019-04-01 09:02:20] 6b68dfad3e66: Waiting
[2019-04-01 09:02:20] cd7100a72410: Waiting
[2019-04-01 09:02:21] 0937d5cf0d1f: Layer already exists
[2019-04-01 09:02:21] 5133232c669f: Layer already exists
[2019-04-01 09:02:21] ddba0ba06572: Layer already exists
[2019-04-01 09:02:21] 30e8a3d88591: Layer already exists
[2019-04-01 09:02:21] 6b0dca259f93: Layer already exists
[2019-04-01 09:02:22] fd8fae5cd65a: Layer already exists
[2019-04-01 09:02:22] 6b68dfad3e66: Layer already exists
[2019-04-01 09:02:22] cd7100a72410: Layer already exists
[2019-04-01 09:02:23] 1.1.0: digest: sha256:76da7d5c74d66b0e1619d5d67fae5af4c8540c1ef6f78c0c9c83b65391c47a68 size: 1993
[2019-04-01 09:02:23] Using docker /bin/docker
[2019-04-01 09:02:23] /bin/sh -c mkdir -p `dirname zsanettmagyar/houg.flask.1.1.0.tar`
[2019-04-01 09:02:23] /bin/docker save --output zsanettmagyar/houg.flask.1.1.0.tar registry-1.docker.io/zsanettmagyar/houg.flask:1.1.0
[2019-04-01 09:02:25] BEGIN shell script execution with /bin/sh -ex
[2019-04-01 09:02:25] + ls -l zsanettmagyar/houg.flask.1.1.0.tar
[2019-04-01 09:02:25] -rw-------. 1 builder builder 100274688 Apr  1 09:02 zsanettmagyar/houg.flask.1.1.0.tar
[2019-04-01 09:02:25] END shell script execution
[2019-04-01 09:02:25] /bin/docker logout registry-1.docker.io
```

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Deploy an application

- You can deploy your project's build artifacts
  - to Oracle Java Cloud Service (**JCS**),
  - to Oracle Application Container Cloud Service (**ACCS**),
  - and to Oracle Java Cloud Service - SaaS Extension (JCS-SX) from Oracle Developer Cloud Service (**DevCS**)

  without leaving its web interface.

- DevCS provides tools to build and deploy your Java, Java EE, PHP, and Node.js applications to **ACCS**.

WORKAROUND: Deploy Job

Oracle Support- Tuesday [Notes]

Hi Zsanett

A reply from account team that to add the services you need to ACCS account,
the approval of COE POC in EMEA region is required.

The reason for that is documented in this doc I sent earlier,
[ACCS] Why There Is No Option to Create Application Container Cloud Service
on Oracle Compute Cloud Service-Classic (Doc ID 2519228.1)

"Both OCI-C and ACCS are being decommissioned. No new ACCS instances may be provisioned.
There is an exception process for customers who have a strong business need for the product.
A replacement for ACCS based on the Oracle Kubernetes Engine is being developed.
It should be available late in 2019.

To obtain an exception for ACCS, customers need to engage with their Customer Success Manager or
Oracle Sales to start the process."

Please reach out to your CSM for this approval.

Thank you!

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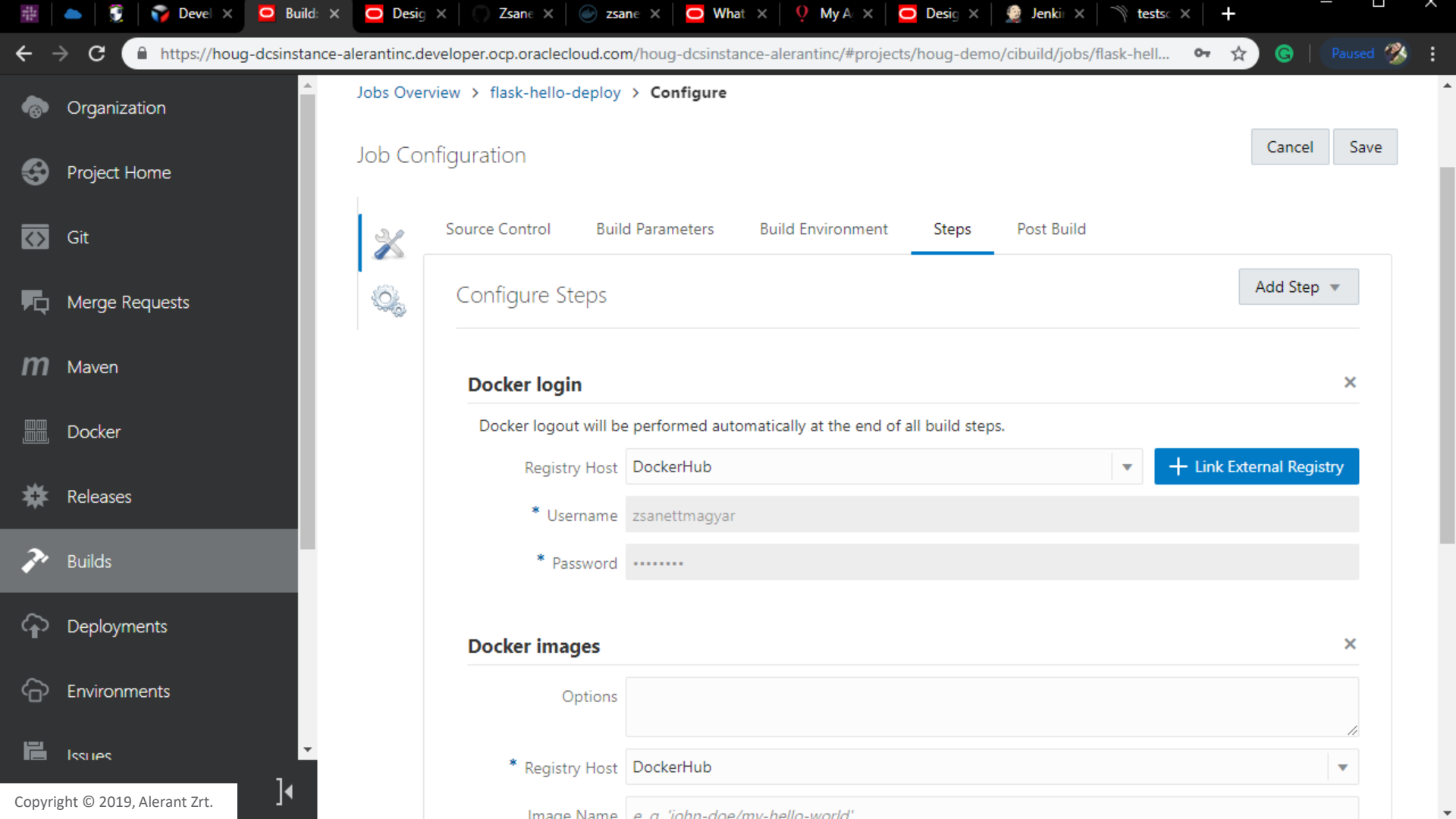
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Jobs Overview > flask-hello-deploy > Configure
Job Configuration
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Source Control
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Build Environment
Steps
Post Build
Configure Steps
Add Step
Docker login
Docker logout will be performed automatically at the end of all build steps.
Registry Host
DockerHub
Link External Registry
* Username
zsanettmagyar
* Password
Docker images
Options
* Registry Host
DockerHub
Image Name
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Docker images

Options

* Registry Host: DockerHub

Image Name: *e. g. 'john-doe/my-hello-world'*

Version Tag: *e. g. '1.7.0'*

Full Image Name: registry-1.docker.io/

Unix Shell

Script

```
1 /bin/docker run -p 15000:5000 -d --name flask.hello zsanettmag
2 /bin/docker ps
3 sleep 5
4 /bin/docker ps
5 curl 0.0.0.0:15000
```

Command logging option:
- (-x) Expand variables in commands, don't show I/O redirection.
- (-v) Show commands exactly as written.

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```
[2019-04-01 09:02:31] Using docker /bin/docker
[2019-04-01 09:02:31] /bin/docker login -u zsanettmagyar -p ******** registry-1.docker.io
[2019-04-01 09:02:32] WARNING! Using --password via the CLI is insecure. Use --password-stdin.
[2019-04-01 09:02:34] Login Succeeded
[2019-04-01 09:02:34] Using docker /bin/docker
[2019-04-01 09:02:34] /bin/docker images registry-1.docker.io/
[2019-04-01 09:02:34] REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
[2019-04-01 09:02:34] BEGIN shell script execution with /bin/sh -ex
[2019-04-01 09:02:34] + /bin/docker run -p 15000:5000 -d --name flask.hello zsanettmagyar/houg.flask:1.1.0
[2019-04-01 09:02:34] 16bf59f8a2f6b6c2f1dd67c34b9c418ddd14bb00909cee7ff460842217016d99
[2019-04-01 09:02:34] + /bin/docker ps
[2019-04-01 09:02:34] CONTAINER ID        IMAGE                         COMMAND                  CREATED             STATUS              PORTS
 NAMES
[2019-04-01 09:02:34] 16bf59f8a2f6        zsanettmagyar/houg.flask:1.1.0   "/bin/sh -c 'python …"   Less than a second ago   Up Less than a second
 0.0.0.0:15000->5000/tcp   flask.hello
[2019-04-01 09:02:34] + sleep 5
[2019-04-01 09:02:39] + /bin/docker ps
[2019-04-01 09:02:39] CONTAINER ID        IMAGE                         COMMAND                  CREATED             STATUS              PORTS
 NAMES
[2019-04-01 09:02:39] 16bf59f8a2f6        zsanettmagyar/houg.flask:1.1.0   "/bin/sh -c 'python …"   5 seconds ago       Up 5 seconds
0.0.0.0:15000->5000/tcp   flask.hello
[2019-04-01 09:02:39] + curl 0.0.0.0:15000
[2019-04-01 09:02:39]   % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
[2019-04-01 09:02:39]                                  Dload  Upload   Total   Spent    Left  Speed
[2019-04-01 09:02:39]   0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0
[2019-04-01 09:02:39] 100    11  100    11    0     0   2428      0 --:--:-- --:--:-- --:--:--  2750
[2019-04-01 09:02:39] Hello HOUG!
[2019-04-01 09:02:39] END shell script execution
[2019-04-01 09:02:39] /bin/docker logout registry-1.docker.io
[2019-04-01 09:02:39] Removing login credentials for registry-1.docker.io
Slave log size 2.2 KB (2,250)
[2019-04-01 09:02:51]
[2019-04-01 09:02:51] Build completed.
[2019-04-01 09:02:51] Status: DONE Result: SUCCESSFUL Duration: 20 sec
```

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Trigger a build

- You can configure a job to monitor its Git repositories and **trigger** a build automatically **after a commit is pushed** to the Git repository.

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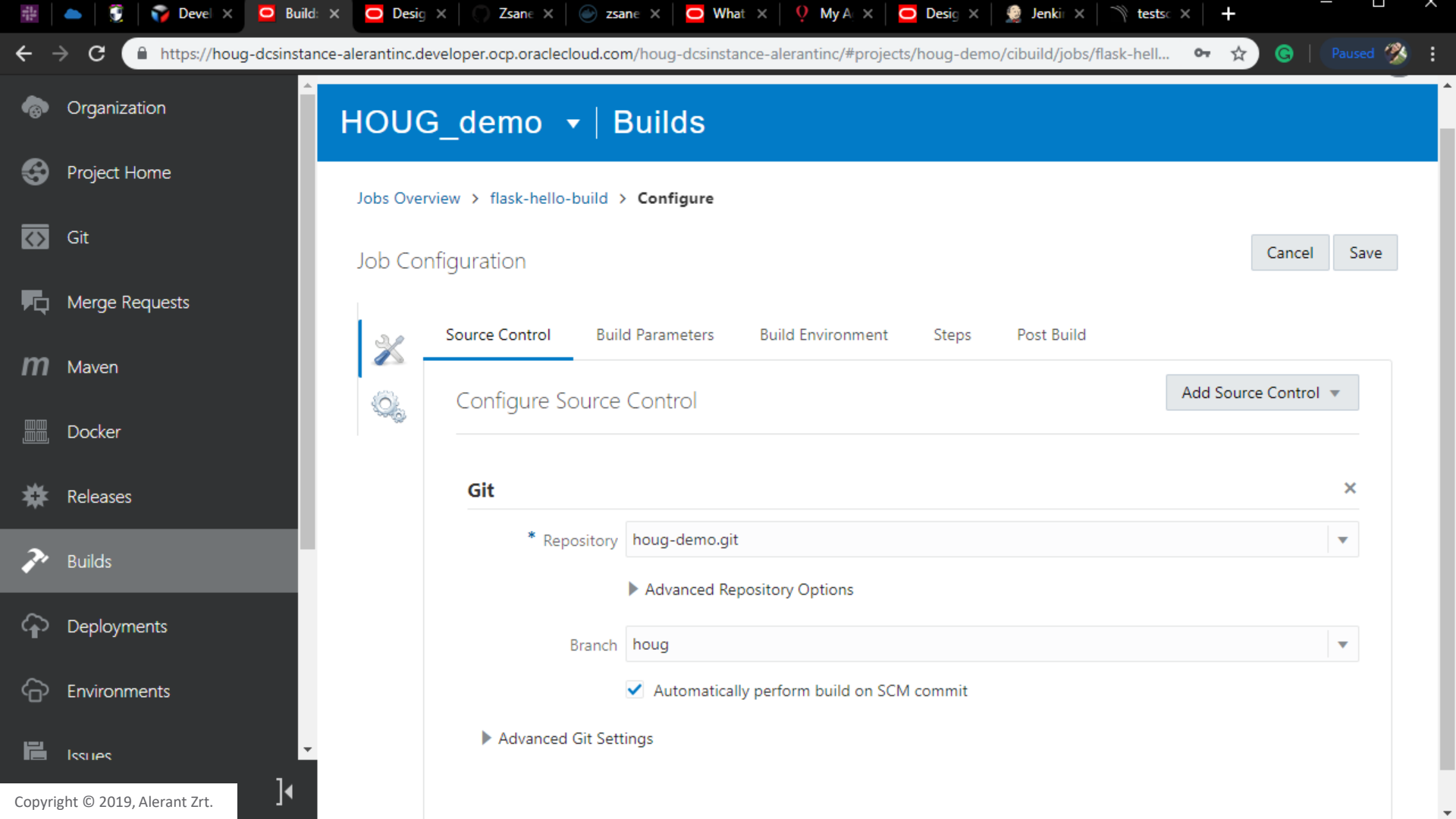
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Jobs Overview > flask-hello-build > Configure
Job Configuration
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Save
Source Control
Build Parameters
Build Environment
Steps
Post Build
Configure Source Control
Add Source Control
Git
* Repository
houg-demo.git
Advanced Repository Options
Branch
houg
Automatically perform build on SCM commit
Advanced Git Settings
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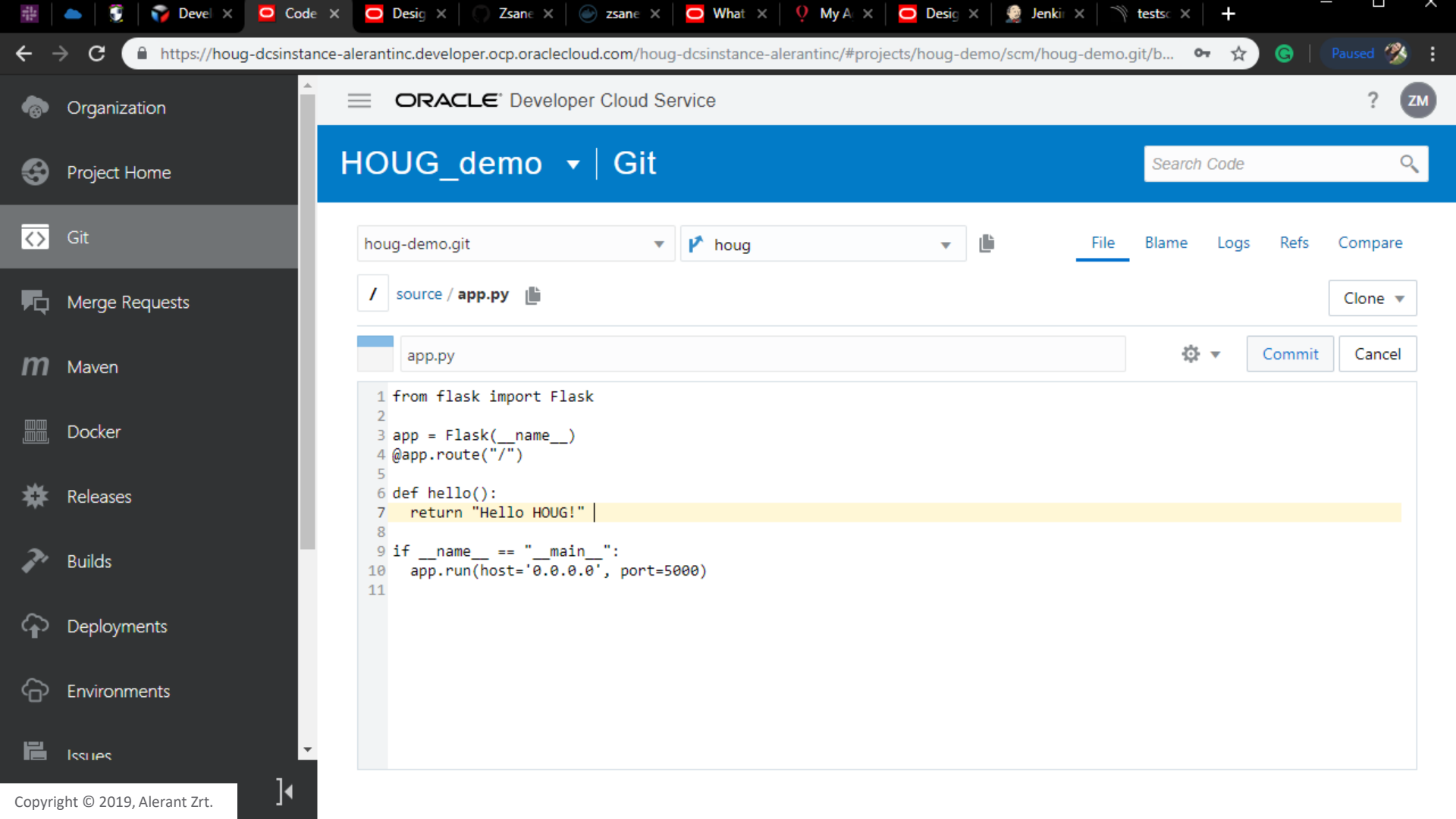
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Issues
ORACLE Developer Cloud Service
ZM
HOUG_demo | Git
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houg-demo.git
houg
File
Blame
Logs
Refs
Compare
/ source / app.py
Clone
app.py
Commit
Cancel
1 from flask import Flask
2
3 app = Flask(__name__)
4 @app.route("/")
5
6 def hello():
7 return "Hello HOUG!"
8
9 if __name__ == "__main__":
10 app.run(host='0.0.0.0', port=5000)
11
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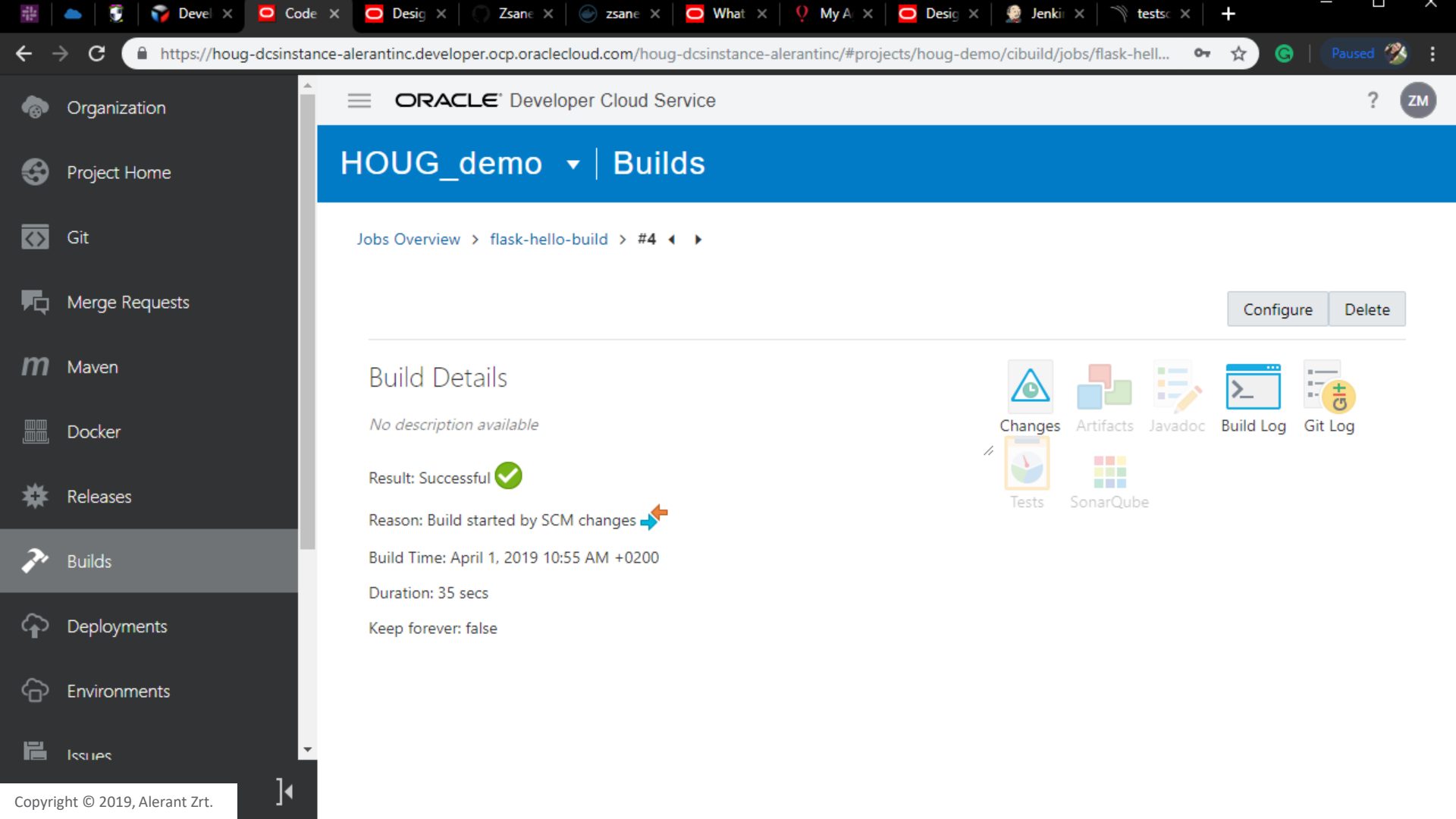

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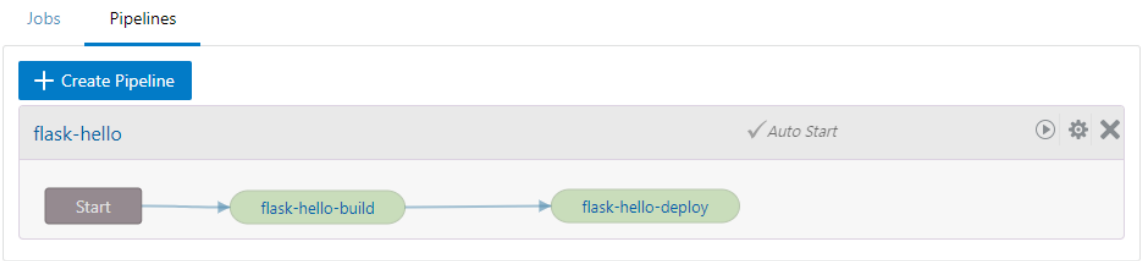
Pipeline

- A Pipeline lets you define *dependencies* of jobs and create a path or a *chain of builds*.

- You use the **pipeline designer** to create a pipeline diagram, that defines dependencies between jobs and the order of their builds.

- **Pipeline types**
  - One-to-One Dependency
  - One-to-Many Dependency
  - Many-to-One Dependency



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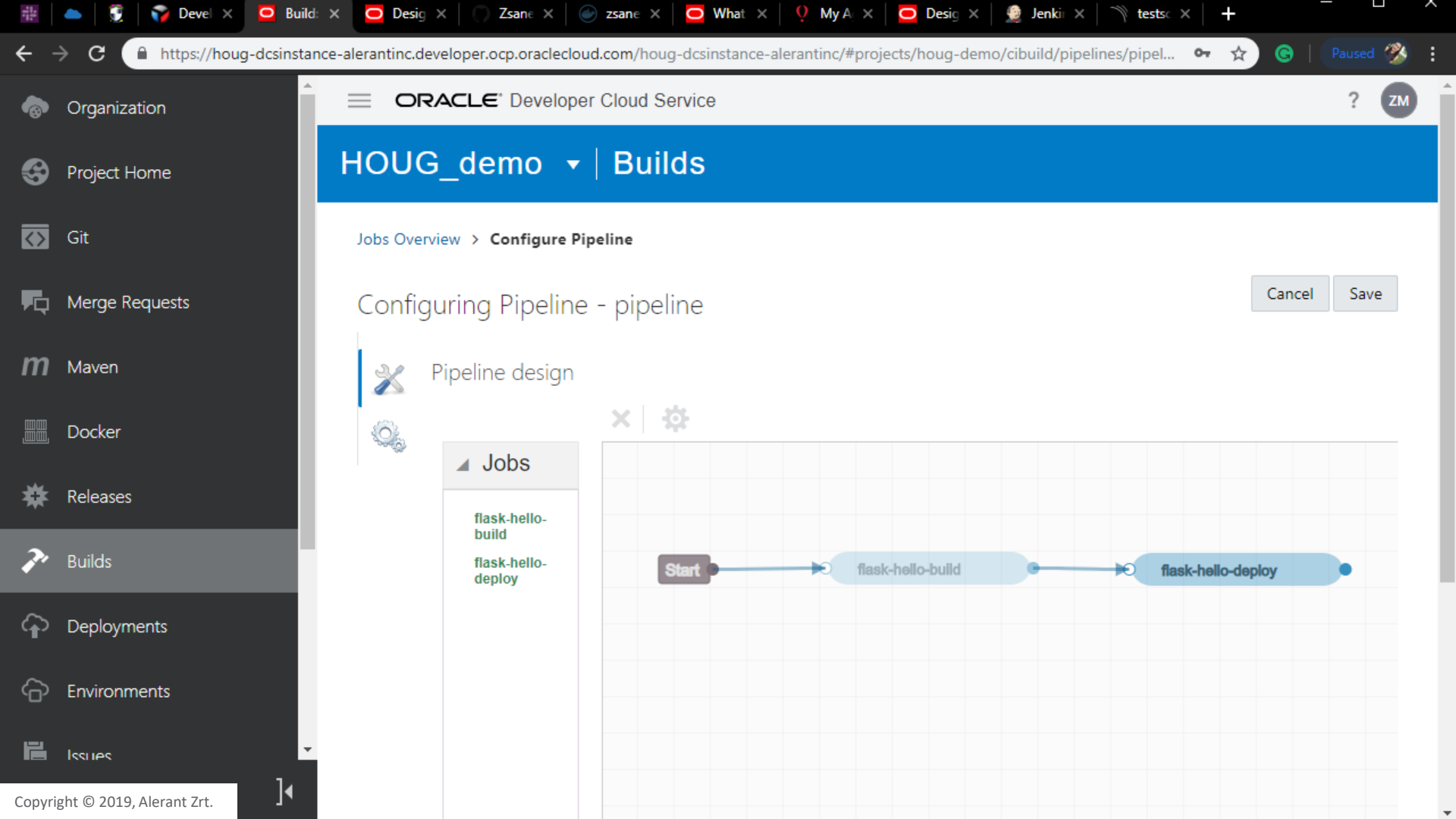

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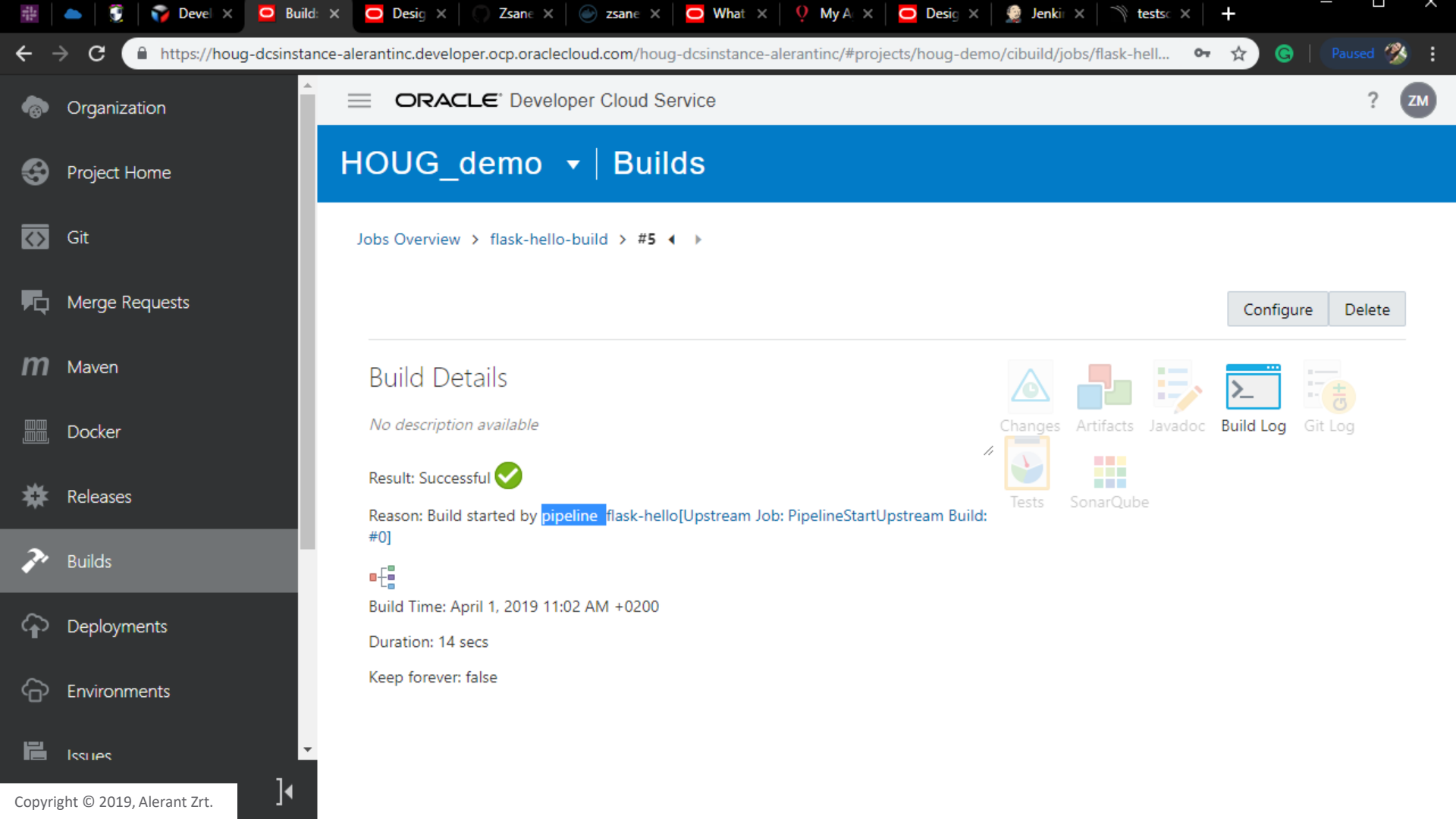
https://houg-dcsinstance-alerantinc.developer.ocp.oraclecloud.com/houg-dcsinstance-alerantinc/#projects/houg-demo/cibuild/jobs/flask-hell...
Paused
Organization
Project Home
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Merge Requests
Maven
Docker
Releases
Builds
Deployments
Environments
Issues
ORACLE Developer Cloud Service
ZM
HOUG_demo | Builds
Jobs Overview > flask-hello-build > #5
Configure
Delete
Build Details
No description available
Changes
Artifacts
Javadoc
Build Log
Git Log
Tests
SonarQube
Result: Successful
Reason: Build started by pipeline flask-hello[Upstream Job: PipelineStartUpstream Build: #0]
Build Time: April 1, 2019 11:02 AM +0200
Duration: 14 secs
Keep forever: false
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Agile & collaboration

- **Team members** access to project

- In Oracle Developer Cloud Service (DevCS), you use the Agile methodology to manage issues in **Scrum and Kanban boards**.

- **Issues** help you track new feature requests or enhancements, assign tasks to team members, or file bugs.
- Issue types:
  - Task
  - Defect
  - Feature
  - Epic (Agile Scrum board)
  - Story (Agile Scrum board)

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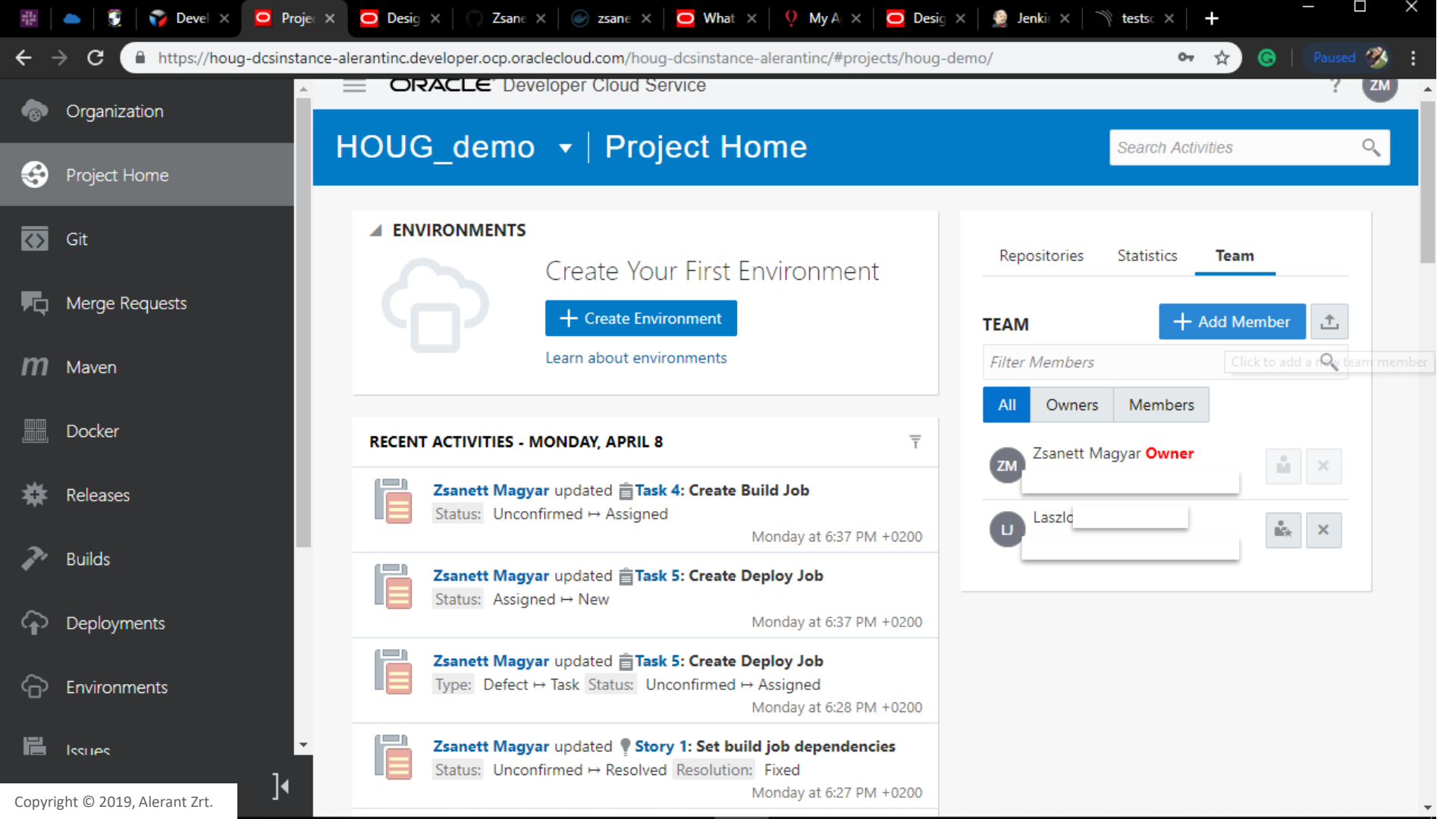

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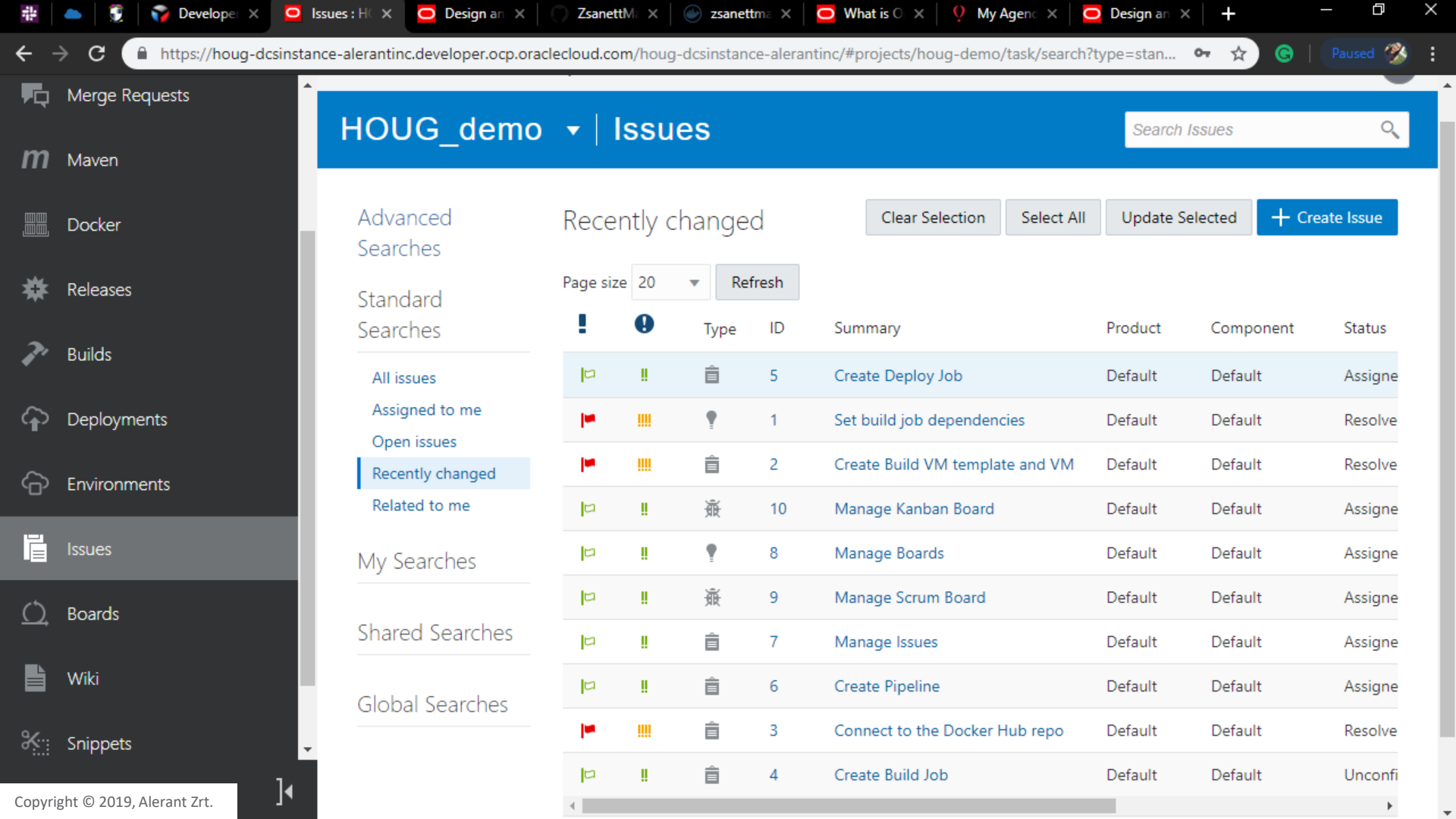
Merge Requests
Maven
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Boards
Wiki
Snippets
HOUG_demo | Issues
Search Issues
Advanced Searches
Standard Searches
All issues
Assigned to me
Open issues
Recently changed
Related to me
My Searches
Shared Searches
Global Searches
Recently changed
Clear Selection
Select All
Update Selected
Create Issue
Page size 20
Refresh
Type
ID
Summary
Product
Component
Status
5 Create Deploy Job Default Default Assigne
1 Set build job dependencies Default Default Resolve
2 Create Build VM template and VM Default Default Resolve
10 Manage Kanban Board Default Default Assigne
8 Manage Boards Default Default Assigne
9 Manage Scrum Board Default Default Assigne
7 Manage Issues Default Default Assigne
6 Create Pipeline Default Default Assigne
3 Connect to the Docker Hub repo Default Default Resolve
4 Create Build Job Default Default Unconfi
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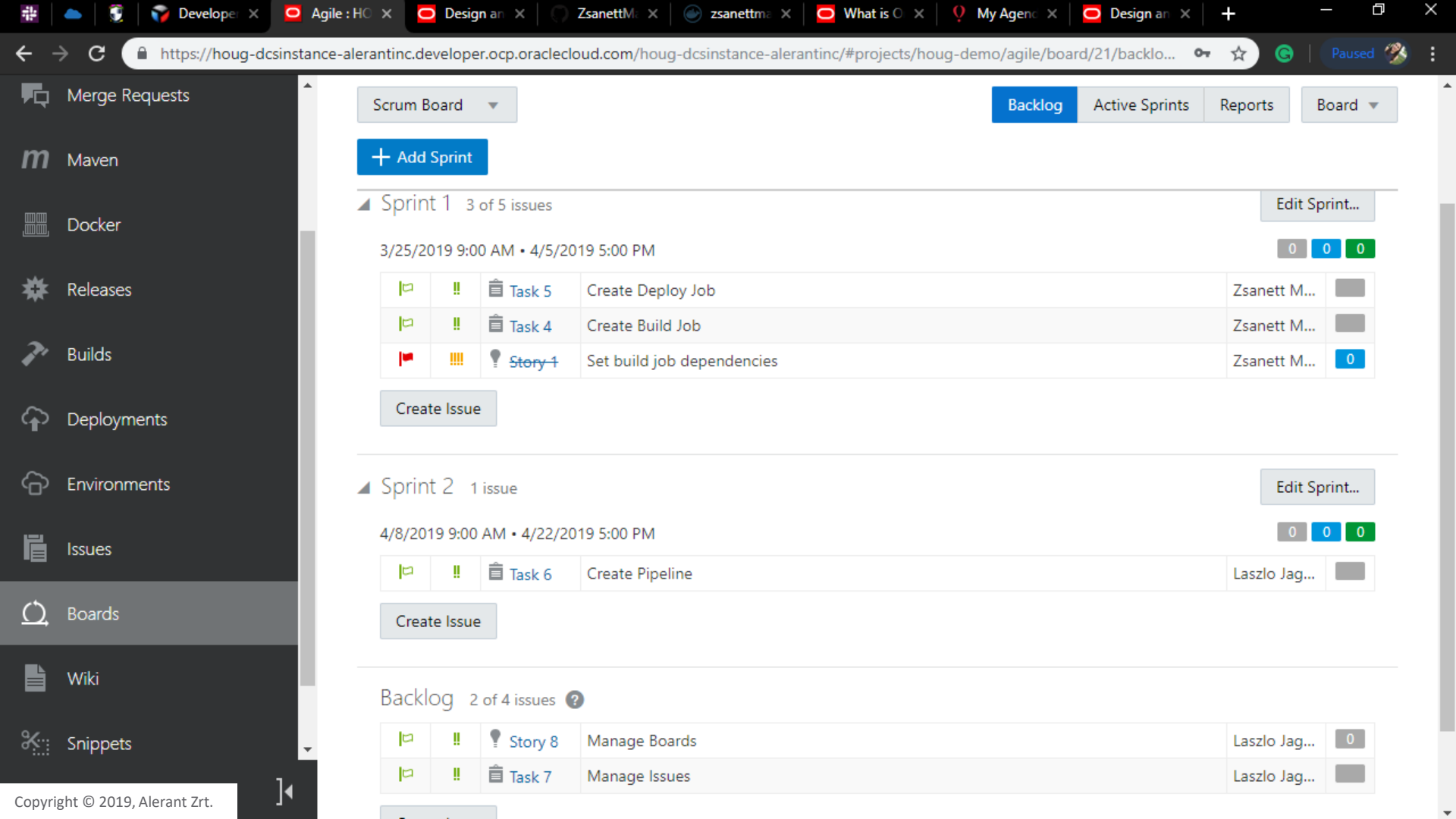
Merge Requests
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Issues
Boards
Wiki
Snippets
Scrum Board
Backlog
Active Sprints
Reports
Board
Add Sprint
Sprint 1 3 of 5 issues
Edit Sprint...
3/25/2019 9:00 AM • 4/5/2019 5:00 PM
Task 5 Create Deploy Job Zsanett M...
Task 4 Create Build Job Zsanett M...
Story 1 Set build job dependencies Zsanett M...
Create Issue
Sprint 2 1 issue
Edit Sprint...
4/8/2019 9:00 AM • 4/22/2019 5:00 PM
Task 6 Create Pipeline Laszlo Jag...
Create Issue
Backlog 2 of 4 issues
Story 8 Manage Boards Laszlo Jag...
Task 7 Manage Issues Laszlo Jag...
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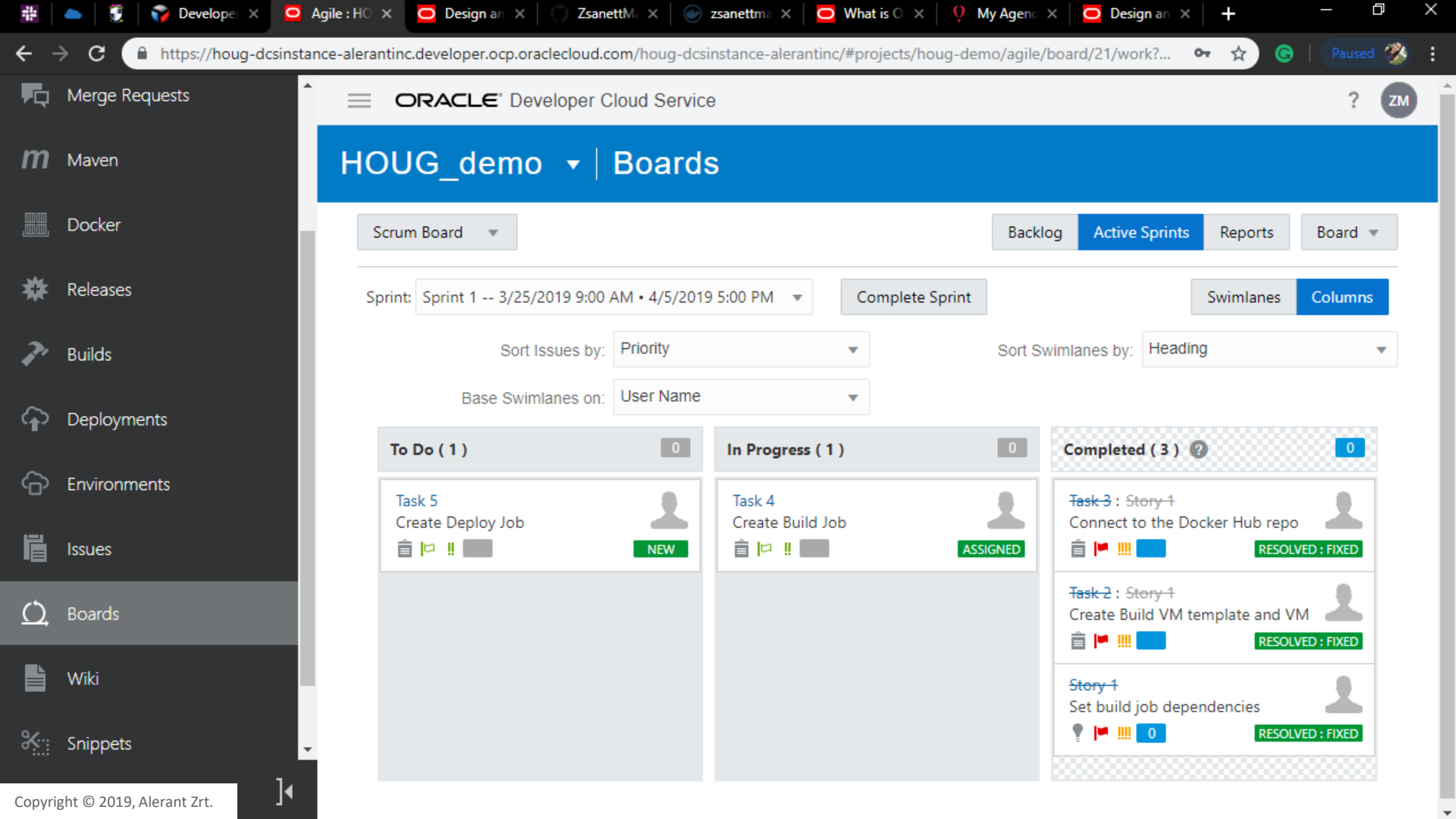
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ZM
HOUG_demo | Boards
Scrum Board
Backlog
Active Sprints
Reports
Board
Sprint: Sprint 1 -- 3/25/2019 9:00 AM • 4/5/2019 5:00 PM
Complete Sprint
Swimlanes
Columns
Sort Issues by: Priority
Sort Swimlanes by: Heading
Base Swimlanes on: User Name
To Do (1)
0
In Progress (1)
0
Completed (3)
0
Task 5
Create Deploy Job
NEW
Task 4
Create Build Job
ASSIGNED
~~Task 3~~ : ~~Story 1~~
Connect to the Docker Hub repo
RESOLVED : FIXED
~~Task 2~~ : ~~Story 1~~
Create Build VM template and VM
RESOLVED : FIXED
~~Story 1~~
Set build job dependencies
0
RESOLVED : FIXED
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Thank
You