



CI/CD pipeline on AWS for Python

Katowice, 27th of August 2020

Introduction

AWS Code services



- Check-in source code such as .py files
- Peer review new code

- Style checkers: coding style (aka PEP8), programming errors, cyclomatic complexity
- Unit tests
- Create Docker images and AWS Lambda deployment packages

- Integration tests
- Load testing
- UI tests
- Security testing

- Deployment to production environments
- Monitor code in production

AWS Code services



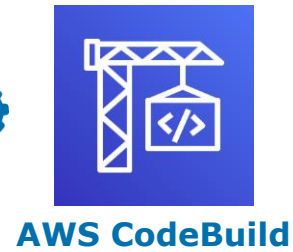
- Check-in source code such as .py files
- Peer review new code

- Style checkers: coding style (aka PEP8), programming errors, cyclomatic complexity
- Unit tests
- Create Docker images and AWS Lambda deployment packages
- ~~Compile code~~

- Integration tests
- Load testing
- UI tests
- Security testing

- Deployment to production environments
- Monitor code in production

AWS Code services



AWS Code services



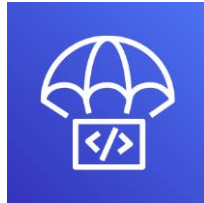
AWS CodeCommit



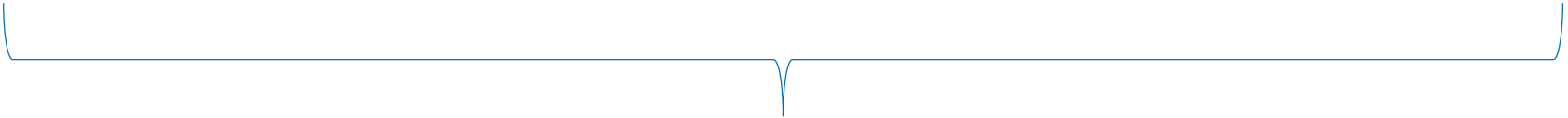
AWS CodeBuild



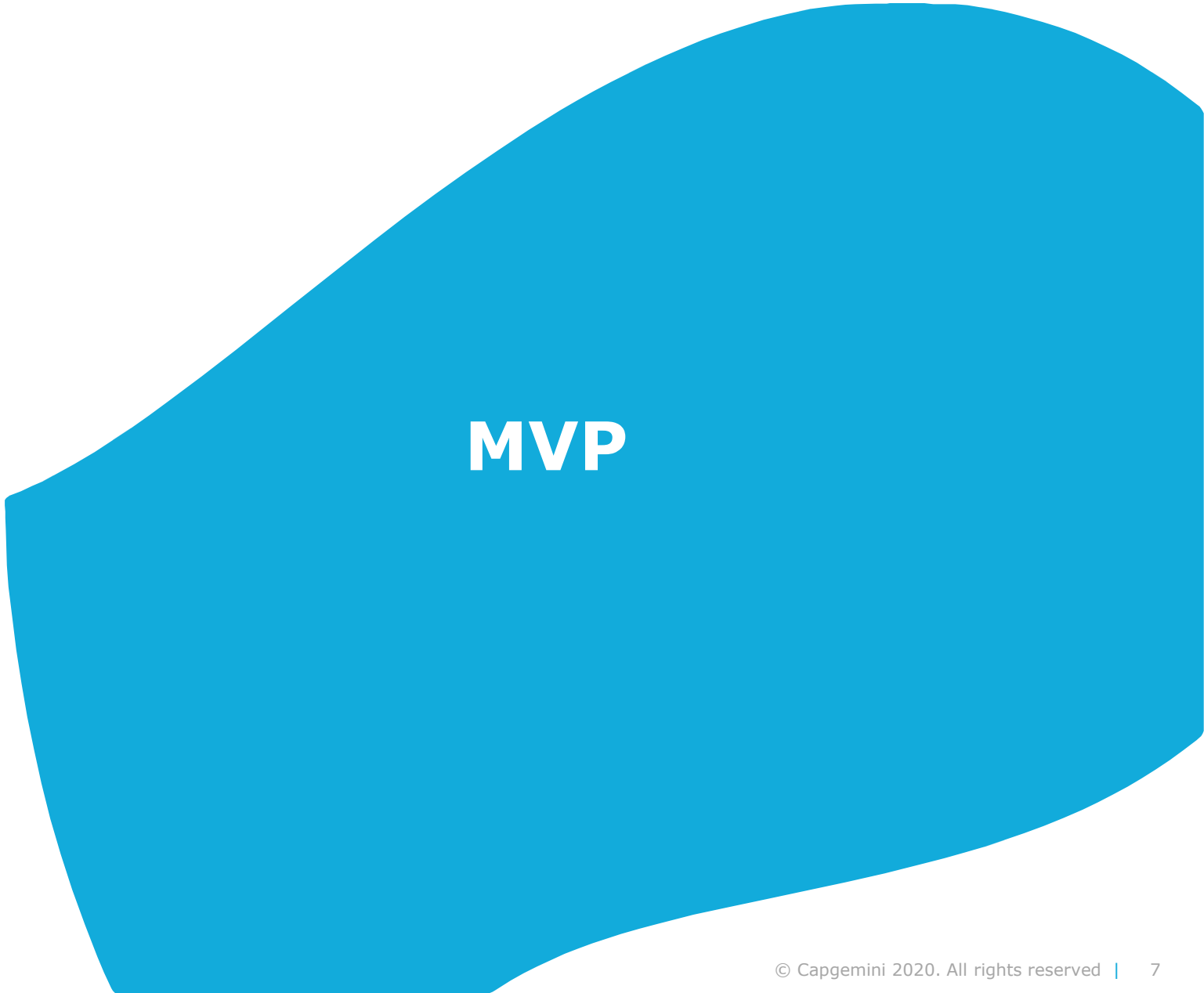
AWS CodeBuild
+
third-party



AWS CodeDeploy



AWS CodePipeline



MVP

AWS Code services. MVP



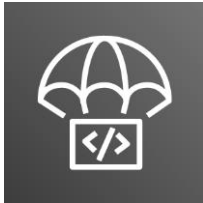
AWS CodeCommit



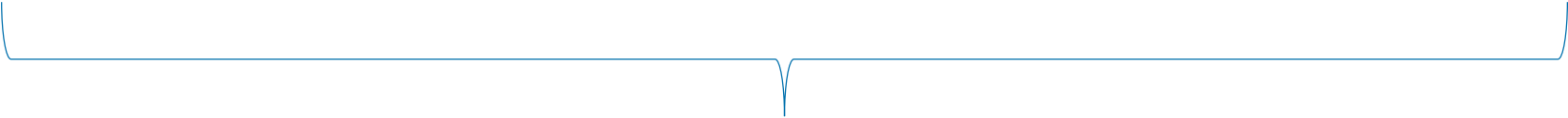
AWS CodeBuild



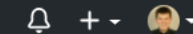
AWS CodeBuild
+
third-party



AWS CodeDeploy



AWS CodePipeline

[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)[korniichuk](#) / [ci-cd-pipeline-on-aws-for-python](#)

Unwatch 1

Star 0

Fork 0

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

master

1 branch

0 tags

Go to file

Add file

Code

	korniichuk Update README.md	49d2c92 6 hours ago	4 commits
img	Initial commit	22 hours ago	
LICENSE	Initial commit	22 hours ago	
README.md	Update README.md	6 hours ago	
ci_cd_pipeline.yaml	Initial commit	22 hours ago	

README.md



ci-cd-pipeline-on-aws-for-python

Name: ci-cd-pipeline-on-aws-for-python**Description:** AWS CloudFormation template for CI/CD pipeline on AWS for Python**GitHub:** <https://github.com/korniichuk/ci-cd-pipeline-on-aws-for-python>

Table of Contents

- [Intro](#)
- [Create CI/CD pipeline. CLI](#)
- [Create CI/CD pipeline. Console](#)
- [Validate created pipeline](#)
- [Sources](#)

About



AWS CloudFormation template for CI/CD pipeline on AWS for Python

www.korniichuk.com

aws cloudformation

aws-cloudformation cfn ci-cd cicd

pipeline pipelines pipeline-as-code

pipelines-as-code codecommit

codebuild aws-codepipeline

codepipeline python python3

python-3 yaml yml

Readme

Unlicense License

DEMO

About Capgemini

Capgemini is a global leader in consulting, digital transformation, technology and engineering services. The Group is at the forefront of innovation to address the entire breadth of clients' opportunities in the evolving world of cloud, digital and platforms. Building on its strong 50-year+ heritage and deep industry-specific expertise, Capgemini enables organizations to realize their business ambitions through an array of services from strategy to operations. Capgemini is driven by the conviction that the business value of technology comes from and through people. Today, it is a multicultural company of 270,000 team members in almost 50 countries. With Altran, the Group reported 2019 combined revenues of €17billion.

Learn more about us at

www.capgemini.com



People matter, results count.

Ruslan Korniiichuk

Information Technology Architect

Capgemini Poland

ruslan.korniiichuk@capgemini.com

+48 791 065 877