# App deployment methods

Below are different tools which we can use for deploying applications:

* Azure DevOps, Docker, Azure Container Registry, Azure Linux VM

## Azure DevOps, Docker, Azure Container Registry, Azure Linux VM

In this approach we create a CI/CD pipeline in Azure DevOps which performs the following steps:

* Take code from repository
* Build a Docker image from it
* Push that Docker image to Azure Container Registry
* Pull that Docker image onto an Azure Linux VM and run it.

A diagram of a blockchain

AI-generated content may be incorrect.

# PoCs

## Airflow app deployment - Azure DevOps, Docker, Azure Container Registry, Azure Linux VM

In this PoC I am deploying an Airflow app using Azure DevOps, Docker, Azure Container Registry and Azure Linux VM.

There is a PowerPoint presentation and videos about that in the ‘Airflow deployment - Azure DevOps, Docker, Linux VM’ folder in the same folder as this document.

Links to repositories with code used in that PoC:

* azure\_devops\_rest\_api - <https://github.com/bulka4/azure_devops_rest_api>
* azure\_terraform – <https://github.com/bulka4/azure_terraform>
* airflow\_docker - <https://github.com/bulka4/airflow_docker>

# Azure DevOps

## Agent pool

Agent pool is a place where we can add Self Hosted Agents. Self Hosted Agents are installed on a computer and they perform actions defined in the CI/CD pipeline, for example push a Docker image to an Azure Container Registry or pull a Docker image onto a VM and run it.