



FEBRUARY 9, 2023

DevOps Classroomnotes 09/Feb/2023

Azure Devops

Self hosted agents

- Configuring selfhosted agent on linux

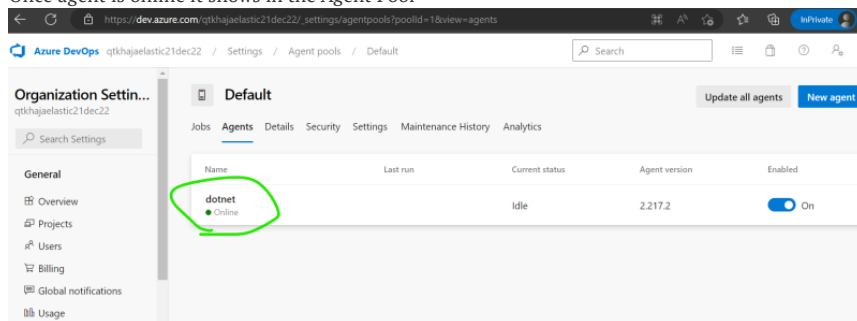
```
>> Connect:

Enter server URL > https://dev.azure.com/qtkhajaelastic21dec22
Enter authentication type (press enter for PAT) >
Enter personal access token > *****
Connecting to server ...

>> Register Agent:

Enter agent pool (press enter for default) >
Enter agent name (press enter for web1vnet1) > dotnet
Scanning for tool capabilities.
Connecting to the server.
Successfully added the agent
Testing agent connection.
Enter work folder (press enter for _work) >
2023-02-09 02:54:28Z: Settings Saved.
qtdevops@web1vnet1:~/myagent$ ./run.sh
Scanning for tool capabilities.
Connecting to the server.
2023-02-09 02:54:43Z: Listening for Jobs
```

- Once agent is online it shows in the Agent Pool



- azure-pipelines

```
---
pool: default

trigger:
- master

jobs:
- job: Preparation_job
  displayName: install softwares
  steps:
  - task: DotNetCoreInstaller@1
    inputs:
      packageType: 'sdk'
      version: 6.x
- job: Build_Job
  displayName: Build dotnet project
  dependsOn: Preparation_job
```

Variables in Azure Pipelines

- Refer [Here](#) for official docs
- Azure DevOps Pipelines allows us to
 - create our custom variables
 - use predefined variables [Refer Here](#)
- We can use predefined variables according to the needs in the pipeline, some example copy the builds to the shared folder/s3/azure storage account

```

---
pool:
  name: "Azure Pipelines"
  vmImage: 'ubuntu-latest'

trigger:
  - main

steps:
  - task: Bash@3
    inputs:
      targetType: inline
      script: echo "Build Directory is $(Agent.BuildDirectory)"
  - task: Maven@3
    inputs:
      mavenPomFile: 'pom.xml'
      goals: 'package'

```

The screenshot shows the Azure Pipelines interface. On the left, a sidebar titled "Jobs in run #20230..." for "spring-petclinic.git" lists the job steps: "Initialize job" (2s), "Checkout spring-..." (1s), "Bash" (<1s), "Maven" (17s), and "Post-job: Checkout ...". The "Bash" step is selected. The main panel displays the details of the "Bash" task, which is a "Starting: Bash" task. It shows the task description, version (3.214.0), author (Microsoft Corporation), and help link. The script content is displayed, showing the command "echo 'Build Directory is /home/vsts/work/1'" and the output "Build Directory is /home/vsts/work/1".

- Creating user-defined variables [Refer Here](#)
- Parameters are the inputs that can be passed during build triggers

The screenshot shows the Azure Pipelines interface for a pipeline named "spring-petclinic.git". The pipeline is configured with a "clean" task, "package", "test", "compile", "install", and "deploy" steps. The "Maven Goal" is set to "package". The "Run pipeline" dialog is open, showing the "Branch/tag" dropdown set to "efficient-webjars" and the "Maven Goal" dropdown set to "package". The "Advanced options" section is expanded, showing "Variables" (This pipeline has no defined variables), "Stages to run" (Run as configured), and "Resources" (Use latest version of all resources). The "Run" button is highlighted.

```

---
pool:
  name: "Azure Pipelines"
  vmImage: 'ubuntu-latest'

trigger:
  - main

parameters:
  - name: goal
    displayName: Maven Goal
    type: string
    default: package
    values:
      - clean
      - package
      - test

```

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