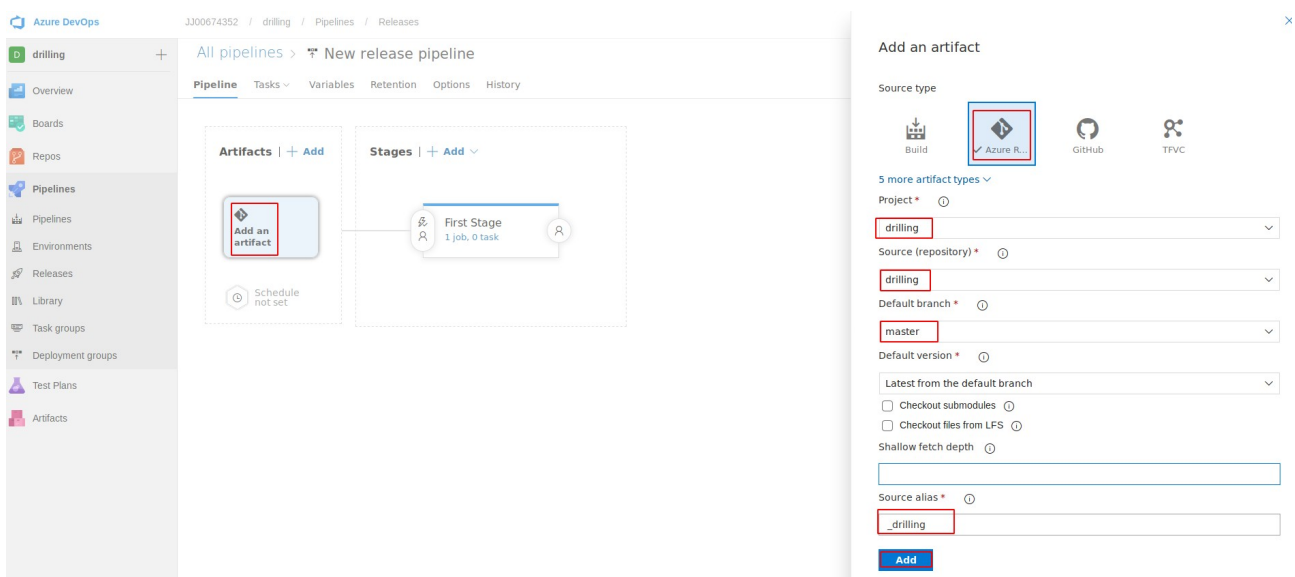
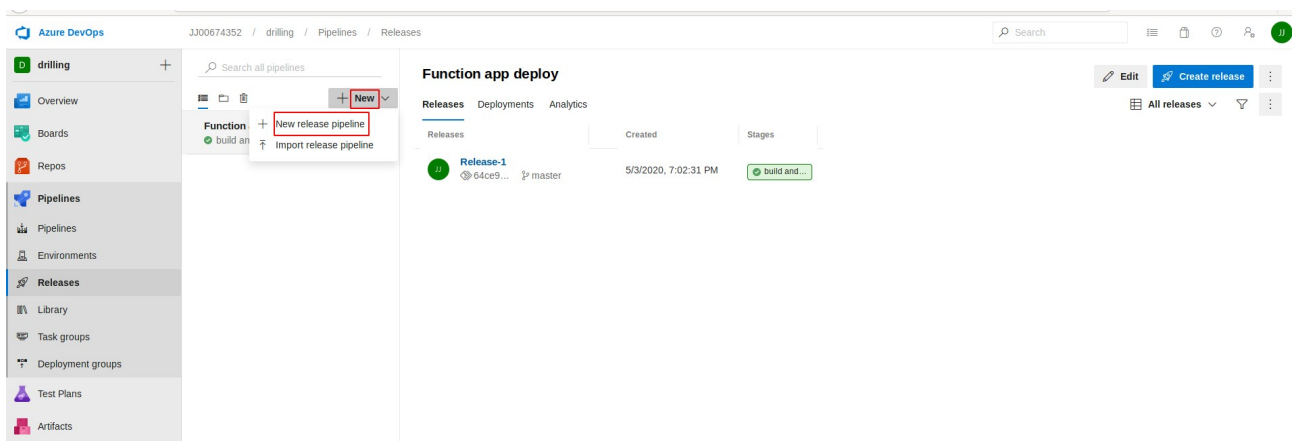
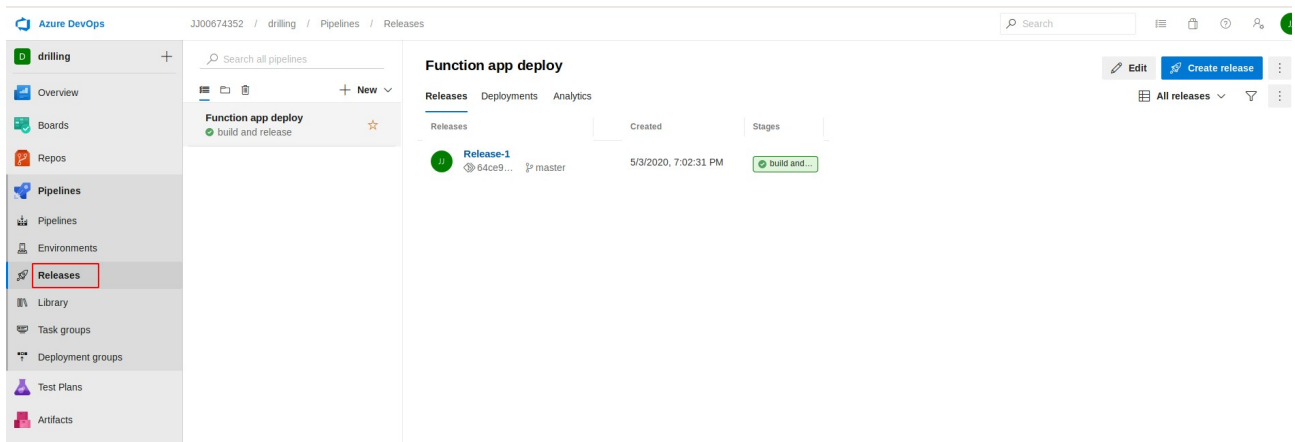


Python ETL scripts

Requirements:

1. Devops Project
2. linux agent
3. custom script for package installtion



Azure DevOps

JJ00674352 / drilling / Pipelines / Releases

All pipelines > New release pipeline

Pipeline Tasks Variables Retention Options History

Artifacts | + Add

Stages | + Add

_drilling

Schedule not set

First Stage

1 job, 0 task

Azure DevOps

JJ00674352 / drilling / Pipelines / Releases

All pipelines > New release pipeline

Pipeline Tasks Variables Retention Options History

First Stage

Deployment process

Agent job

Run on agent

Agent job

Display name *

Agent job

Agent selection ^

Agent pool | Pool information | Manage

Azure Pipelines

Agent Specification *

ubuntu-18.04

Demands

Name Condition Value

+ Add

Azure DevOps

JJ00674352 / drilling / Pipelines / Releases

All pipelines > New release pipeline

Pipeline Tasks Variables Retention Options History

First Stage

Deployment process

Agent job

Run on agent

Bash Script

Some settings need attention

Add tasks | Refresh

bash

Bash

Run a Bash script on macOS, Linux, or Windows

by Microsoft Corporation

Command line

Run a command line script using Bash on Linux and macOS and cmd.exe on Windows

Marketplace ^

SonarQube

Detect bugs, vulnerabilities and code smells across project branches and pull requests.

Replace Tokens

Task to replace tokens in files.

IIS Web App Deployment Using WinRM

Using WinRM connect to the host Computer, to deploy a Web project using

Azure DevOps interface showing the configuration of a new release pipeline. The pipeline is named "New release pipeline" and is in the "First Stage" (Deployment process). The "Agent job" is configured to run on an agent. The task "Package Installation" is selected, and its configuration is shown on the right. The task is a Bash script, and the script content is:

```
sudo apt update
sudo apt install python python-pip -y
sudo apt-get install python-dev -y
pip install wheel
pip install pyinstaller
pip list
```

The "Advanced" section shows the "Working Directory" set to the default. The "Control Options" section shows the "Fail on Standard Error" checkbox checked. The "Display name" is set to "Package Installation".

Azure DevOps interface showing the configuration of a new release pipeline. The pipeline is named "New release pipeline" and is in the "First Stage" (Deployment process). The "Agent job" is configured to run on an agent. The task "Bash Script" is selected, and its configuration is shown on the right. The task is a Bash script, and the script content is:

```
bash
```

The "Advanced" section shows the "Working Directory" set to the default. The "Control Options" section shows the "Fail on Standard Error" checkbox checked. The "Display name" is set to "Bash Script".

Azure DevOps interface showing the configuration of a new release pipeline. The pipeline is named "ETL PYTHON SCRIPT" and is in the "First Stage" (Deployment process). The "Agent job" is configured to run on an agent. The task "ETL File Creation" is selected, and its configuration is shown on the right. The task is a Bash script, and the script content is:

```
$HOME/.local/bin/pyinstaller --onefile python.py
ls -la dist/
```

The "Advanced" section shows the "Working Directory" set to the default. The "Control Options" section shows the "Fail on Standard Error" checkbox checked. The "Display name" is set to "ETL File Creation".

Azure DevOps interface showing the 'Function app deploy' pipeline. The left sidebar lists navigation options: Overview, Boards, Repos, Pipelines, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The main area displays the 'Function app deploy' pipeline with a search bar and a 'New' button. Below the pipeline name, it shows 'ETL PYTHON SCRIPT' with 'No deployments found'. The 'Releases' tab is active, showing a single release 'Release-1' with a status of 'Created' and a 'build and...' button.

Azure DevOps interface showing the 'ETL PYTHON SCRIPT' pipeline. The left sidebar lists navigation options: Overview, Boards, Repos, Pipelines, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The main area displays the 'ETL PYTHON SCRIPT' pipeline with a search bar and a 'New' button. Below the pipeline name, it shows 'Release-2' with a status of 'First Stage' and a 'Succeeded' badge. The 'Logs' tab is active, showing the 'Agent job' details. The 'Agent job' section lists the following steps: 'Initialize job - succeeded', 'Download Artifacts - succeeded', 'Package Installation - succeeded', 'ETL File Creation - succeeded', and 'Finalize Job - succeeded'. The 'Package Installation' step is highlighted with a red box.

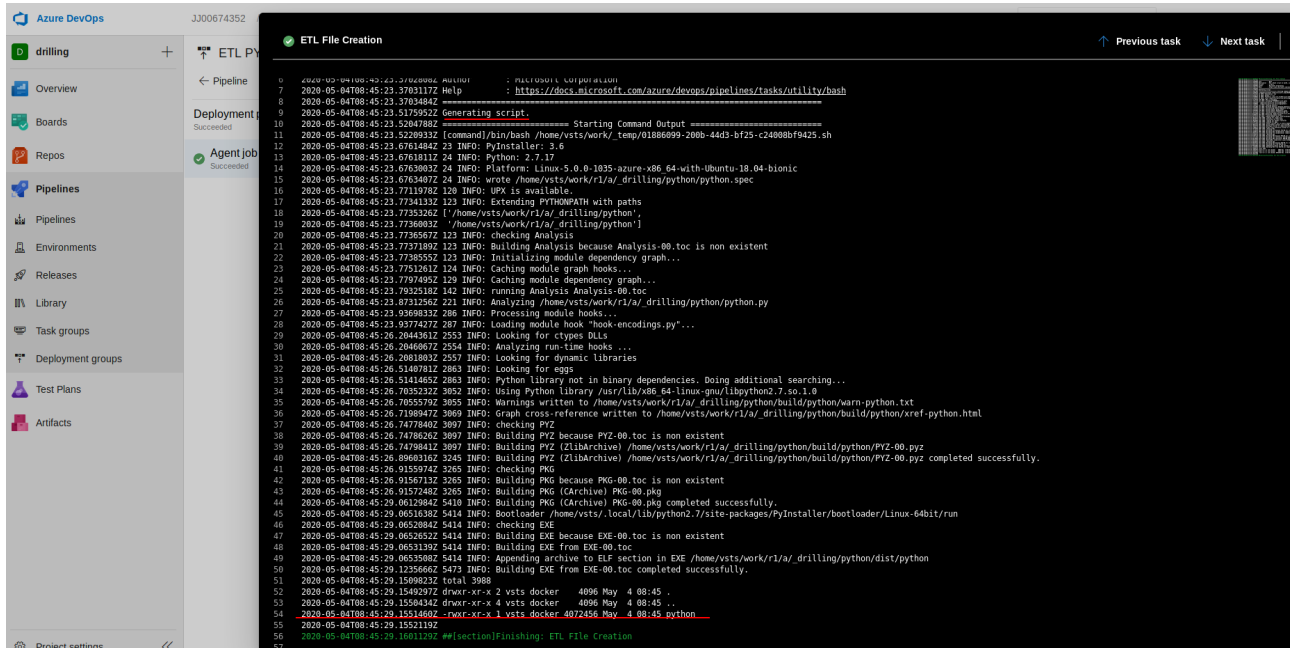
Here two steps are followed

1. Package installation
2. ETL packages creation

Package installation Results

Azure DevOps interface showing the 'Package Installation' step results. The left sidebar lists navigation options: Overview, Boards, Repos, Pipelines, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The main area displays the 'Package Installation' step with a search bar and a 'New' button. Below the step name, it shows the 'Agent job' details. The 'Agent job' section lists the following steps: 'Initialize job - succeeded', 'Download Artifacts - succeeded', 'Package Installation - succeeded', 'ETL File Creation - succeeded', and 'Finalize Job - succeeded'. The 'Package Installation' step is highlighted with a red box. The 'Logs' tab is active, showing the output of the 'Package Installation' step. The output text includes the following lines: 'python3-pip python3-pysaml python3-pysaml-modules python3-service-identity python3-twisted python3-zope.interface udnmap xdelta3', 'python3-twisted python3-zope.interface udnmap xdelta3', 'Use "sudo apt autoremove" to remove them.', '0 upgraded, 0 newly installed, 0 to remove and 245 not upgraded.', 'Collecting wheel', 'Downloading https://files.pythonhosted.org/packages/8c/23/848298ccc8e40f5b0b3909b328484c38f4e7f3364297ab3ca2e2c14/wheel-0.34.2-py2.py3-none-any.whl', 'Successfully installed wheel-0.34.2', 'Collecting pyninstaller', 'Downloading https://files.pythonhosted.org/packages/3c/c9/c3f9bc44b11ee6a924686deba5f29884c8cbf70e750661773b9865e0/Pyninstaller-3.6.tar.gz (3.5MB)', 'Collecting altgraph (from pyninstaller)', 'Downloading https://files.pythonhosted.org/packages/ee/3d/bfca21174b162f6cc674953f1b7e640c1498357fa6184776029557c35399/altgraph-0.17-py2.py3-none-any.whl', 'Collecting setuptools (from pyninstaller)', 'Downloading https://files.pythonhosted.org/packages/9c/5c/4ada2802f10f55801841399b5a58fd3dd7ed1eb48e6de7266334c2489bad6/dists-0.1.3-py2-none-any.whl', 'Successfully installed altgraph-0.17 dis3-0.1.3 pyninstaller-3.6 setuptools-44.1.0', 'Installing collected packages: altgraph, dis3, setuptools, pyninstaller', 'Successfully built pyninstaller', 'Running setup.py bdist_wheel for pyninstaller: started', 'Running setup.py bdist_wheel for pyninstaller: finished with status "done"', 'Stored in directory: /home/vsts/.cache/pip/wheels/62/fe/62/4c8f196de1edd689e097449bc81d7d585a7de7d86b801b80b', 'Successfully built pyninstaller', 'Installing collected packages: altgraph, dis3, setuptools, pyninstaller', 'Successfully installed altgraph-0.17 dis3-0.1.3 pyninstaller-3.6 setuptools-44.1.0', 'DEPRECATION: The default format will switch to columns in the future. You can use --format=(legacy|columns) (or define a format=(legacy|columns) in your pip.conf) to opt-in to the new format earlier.', 'altgraph (0.17)', 'ansible (2.9.6)', 'asn1crypto (0.24.0)', 'charset (2.0.4)', 'cramjam (1.7)', 'cryptography (2.1.4)', 'dis3 (0.1.3)', 'enum34 (1.1.6)', 'httplib2 (0.11.3)', 'idna (2.6)', 'ipaddress (1.0.17)', 'jinja2 (2.10)', 'MarkupSafe (1.0)', 'mercurial (4.5.3)', 'paramiko (2.0.0)', 'pip (9.0.1)', 'pysaml (0.4.2)', 'pysaml2 (2.6.1)', 'Pygments (2.2.0)', 'PyInstaller (3.6)', 'PyYAML (3.12)', 'setuptools (44.1.0)', 'six (1.11.0)', 'wheel (0.34.2)', '35598002', '##section]Finishing: Package Installation'

ETL package Creation



```
6 azdevops: 2020-05-04T08:45:23.3700000, null, null : /home/vsts/work/1/a/.drilling/python/build/python/
7 2020-05-04T08:45:23.3703484Z Help : https://docs.microsoft.com/azure/devops/pipelines/tasks/utility/bash
8 2020-05-04T08:45:23.3703982Z Generating script.
9 2020-05-04T08:45:23.5204708Z ===== Starting Command Output =====
10 2020-05-04T08:45:23.5208933Z [command]/bin/bash /home/vsts/work/ temp/01886099-200b-44d3-bf25-c24080bf9425.sh
11 2020-05-04T08:45:23.6761484Z 23 INFO: PyInstaller: 3.6
12 2020-05-04T08:45:23.6761811Z 24 INFO: Python: 2.7.17
13 2020-05-04T08:45:23.6763083Z 24 INFO: Platform: Linux-5.0.0-1035-azure-x86_64-with-Ubuntu-18.04-bionic
14 2020-05-04T08:45:23.6763407Z 24 INFO: wrote /home/vsts/work/1/a/.drilling/python/python.spec
15 2020-05-04T08:45:23.7711970Z 120 INFO: UPX is available.
16 2020-05-04T08:45:23.7734133Z 123 INFO: Extending PYTHONPATH with paths
17 2020-05-04T08:45:23.7735326Z [' /home/vsts/work/1/a/.drilling/python',
18 2020-05-04T08:45:23.7736083Z /home/vsts/work/1/a/.drilling/python']
19 2020-05-04T08:45:23.7736507Z 123 INFO: Checking Analysis
20 2020-05-04T08:45:23.7737189Z 123 INFO: Building Analysis because Analysis-00.toc is non existent
21 2020-05-04T08:45:23.7738552Z 123 INFO: Initializing module dependency graph...
22 2020-05-04T08:45:23.7731261Z 124 INFO: Caching module graph hooks...
23 2020-05-04T08:45:23.7797495Z 129 INFO: Caching module dependency graph...
24 2020-05-04T08:45:23.7922518Z 142 INFO: running Analysis Analysis-00.toc
25 2020-05-04T08:45:23.8712262Z 221 INFO: Analyzing /home/vsts/work/1/a/.drilling/python/python.py
26 2020-05-04T08:45:23.9369833Z 286 INFO: Processing module hooks...
27 2020-05-04T08:45:23.9377472Z 287 INFO: Loading module hook 'hook-encodings.py'...
28 2020-05-04T08:45:26.2043612Z 2553 INFO: Looking for ctypes DLLs
29 2020-05-04T08:45:26.2046007Z 2554 INFO: Analyzing run-time hooks ...
30 2020-05-04T08:45:26.2081883Z 2557 INFO: Looking for dynamic libraries
31 2020-05-04T08:45:26.5140781Z 2683 INFO: Looking for eggs
32 2020-05-04T08:45:26.5141465Z 2683 INFO: Python library not in binary dependencies. Doing additional searching...
33 2020-05-04T08:45:26.7035232Z 3052 INFO: Using Python library /usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0
34 2020-05-04T08:45:26.7055792Z 3053 INFO: Warnings written to /home/vsts/work/1/a/.drilling/python/build/python/warn-python.txt
35 2020-05-04T08:45:26.7100472Z 3060 INFO: Graph cross-reference written to /home/vsts/work/1/a/.drilling/python/build/python/xref-python.html
36 2020-05-04T08:45:26.7478402Z 3097 INFO: checking PYZ
37 2020-05-04T08:45:26.7478626Z 3097 INFO: Building PYZ because PYZ-00.toc is non existent
38 2020-05-04T08:45:26.7479041Z 3097 INFO: Building PYZ (ZlibArchive) /home/vsts/work/1/a/.drilling/python/build/python/PYZ-00.pyz
39 2020-05-04T08:45:26.9155732Z 3265 INFO: Building PKG because PKG-00.toc is non existent
40 2020-05-04T08:45:26.9157132Z 3265 INFO: Building PKG (Archive) PKG-00.pkg
41 2020-05-04T08:45:26.9155974Z 3265 INFO: Building PKG (Archive) PKG-00.pkg completed successfully.
42 2020-05-04T08:45:29.0612984Z 5410 INFO: Bootloader /home/vsts/.local/lib/python2.7/site-packages/PyInstaller/bootloader/Linux-64bit/run
43 2020-05-04T08:45:29.0621638Z 5414 INFO: checking EXE
44 2020-05-04T08:45:29.0623084Z 5414 INFO: Building EXE because EXE-00.toc is non existent
45 2020-05-04T08:45:29.0653139Z 5414 INFO: Building EXE from EXE-00.toc
46 2020-05-04T08:45:29.1235662Z 5473 INFO: Appending archive to ZIP section in EXE /home/vsts/work/1/a/.drilling/python/dist/python
47 2020-05-04T08:45:29.1235662Z 5473 INFO: Building EXE from EXE-00.toc completed successfully.
48 2020-05-04T08:45:29.1509823Z total 3988
49 2020-05-04T08:45:29.1549297Z drwxr-xr-x 2 vsts docker 4096 May 4 08:45 .
50 2020-05-04T08:45:29.1550434Z drwxr-xr-x 4 vsts docker 4096 May 4 08:45 ..
51 2020-05-04T08:45:29.1551460Z -rwxr-xr-x 1 vsts docker 4072456 May 4 08:45 python
52 2020-05-04T08:45:29.1552119Z
53 2020-05-04T08:45:29.1551197Z ##[section]Finishing: ETL File Creation
```

after we want to move exact location for this scripts, and also verify this scripts are working (not able to check here in myself).