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Best Practices

From 11.11, the Windows Batch executor for the GitLab Runner was deprecated in favor of the [PowerShell](#) executor. Windows Batch will be removed in GitLab 13.0 (Jun 22, 2020).

Execute batch scripts from PowerShell using `Start-Process "cmd.exe" "/c C:\Path\file.bat"` for old batch to PowerShell.

The default shell used on Windows when [shell](#) is not specified.

Executing the build in context of another user.

Each script is executed by saving its content to file and passing the file name to the following command:

`gitlab-runner\scripts\batch\run-windows-batch.cmd`

An example batch script looks like:

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DelayedExpansion

%COMPUTERNAME%...

NEQ 0 exit /b !errorlevel!

ot

NEQ 0 exit /b !errorlevel!

NEQ 0 exit /b !errorlevel!

IA=db45ad9af9d7af5e61b829442fd893d96e31250c

FORE_SHA=d63117656af6ff57d99e50cc270f854691f335ad

F_NAME=master

Y_URL=http://gitlab.example.com/group/project.git

D=1

DIR=Z:\Gitlab\tests\test\builds\0\project-1

S

ME=GitLab CI

ERSION=

VISION=

ue

runner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL

l!tls!nl!chain > C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO

IFO=C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO

runner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL

l!tls!nl!chain > C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE

S_CA_FILE=C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE

pository...

:Lab-Runner\builds\0\project-1" 2>NUL 1>NUL

http://gitlab.example.com/group/project.git" "Z:\Gitlab\tests\test\builds\0\project-1"

NEQ 0 exit /b !errorlevel!

-Runner\builds\0\project-1"

NEQ 0 exit /b !errorlevel!

it db45ad9a as master...

"db45ad9af9d7af5e61b829442fd893d96e31250c"

NEQ 0 exit /b !errorlevel!

...\cache\project-1\pages\master\cache.tgz" (

; cache...

-windows-amd64.exe" "extract" "--file" "..\..\..\cache\project-1\pages\master\cache.tgz"

! NEQ 0 exit /b !errorlevel!

...\cache\project-1\pages\master\cache.tgz" (

ng cache...

er-windows-amd64.exe" "extract" "--file" "..\..\..\cache\project-1\pages\master\cache.tgz"


el! NEQ 0 exit /b !errorlevel!

IA=db45ad9af9d7af5e61b829442fd893d96e31250c

FORE_SHA=d63117656af6ff57d99e50cc270f854691f335ad

F_NAME=master

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IR=Z:\Gitlab\tests\test\builds\0\project-1

s

ME=GitLab CI

ERSION=

VISION=

ue

runner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL

l!tls!n!chain > C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO

IFO=C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO

runner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL

l!tls!n!chain > C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE

S_CA_FILE=C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE

-Runner\builds\0\project-1"

NEQ 0 exit /b !errorlevel!

IA=db45ad9af9d7af5e61b829442fd893d96e31250c

FORE_SHA=d63117656af6ff57d99e50cc270f854691f335ad

F_NAME=master

Y_URL=Z:\Gitlab\tests\test

D=1

IR=Z:\Gitlab\tests\test\builds\0\project-1

s

ME=GitLab CI

ERSION=

VISION=

ue

runner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL

l!tls!n!chain > C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO

IFO=C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO

runner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL

l!tls!n!chain > C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE

S_CA_FILE=C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE

-Runner\builds\0\project-1"

NEQ 0 exit /b !errorlevel!

cache...

indows-amd64.exe" "archive" "--file" "..\..\..\cache\project-1\pages\master\cache.tgz" "--path" "v

NEQ 0 exit /b !errorlevel!

When a new Runner is registered using GitLab Runner 12.0 or newer.

support executing the build in context of another user.

erShell script is executed by saving it content to a file and passing the file name to the following command:

rofile -noninteractive -executionpolicy Bypass -command generated-windows-powershell.ps1


ample PowerShell script looks like:

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https://docs.gitlab.com/runner/shells/

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<https://docs.gitlab.com/runner/shells/>



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...= "db45ad9af9d7af5e61b829442fd893d96e31250c"

..._SHA= \$CI_COMMIT_SHA

...ORE_SHA= "d63117656af6ff57d99e50cc270f854691f335ad"

..._BEFORE_SHA= \$CI_COMMIT_BEFORE_SHA

..._NAME= "master"

..._REF_NAME= \$CI_COMMIT_REF_NAME

...

...= \$CI_JOB_ID

.../_URL= "Z:\Gitlab\tests\test"

...TORY_URL= \$CI_REPOSITORY_URL

...)= "1"

...T_ID= \$CI_PROJECT_ID

...R= "Z:\Gitlab\tests\test\builds\0\project-1"

...T_DIR= \$CI_PROJECT_DIR

...s"

...= \$CI_SERVER

...IE= "GitLab CI"

..._NAME= \$CI_SERVER_NAME

...SION= ""

..._VERSION= \$CI_SERVER_VERSION

.../ISION= ""

..._REVISION= \$CI_SERVER_REVISION

...ue"

...= \$GITLAB_CI

...O= ""

...Runner\builds\0\project-1.tmp" -Force | out-null

...O | Out-File "C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO"

...O= "C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO"

...CAINFO= \$GIT_SSL_CAINFO

..._CA_FILE= ""

...Runner\builds\0\project-1.tmp" -Force | out-null

..._CA_FILE | Out-File "C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE"

..._CA_FILE= "C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE"

..._TLS_CA_FILE= \$CI_SERVER_TLS_CA_FILE

...Runner\builds\0\project-1"

...: \$LASTEXITCODE }

...

...true"

...

...\$LASTEXITCODE }

...

...= "db45ad9af9d7af5e61b829442fd893d96e31250c"

..._SHA= \$CI_COMMIT_SHA

...ORE_SHA= "d63117656af6ff57d99e50cc270f854691f335ad"

..._BEFORE_SHA= \$CI_COMMIT_BEFORE_SHA

..._NAME= "master"

..._REF_NAME= \$CI_COMMIT_REF_NAME

...

...= \$CI_JOB_ID

.../_URL= "Z:\Gitlab\tests\test"

...TORY_URL= \$CI_REPOSITORY_URL

...)= "1"

...T_ID= \$CI_PROJECT_ID

...R= "Z:\Gitlab\tests\test\builds\0\project-1"

...T_DIR= \$CI_PROJECT_DIR

...s"

...= \$CI_SERVER

...IE= "GitLab CI"

..._NAME= \$CI_SERVER_NAME

...SION= ""

...

..._VERSION= \$CI_SERVER_VERSION

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```
ue
:=$GITLAB_CI
:0=""
Runner\builds\0\project-1.tmp" -Force | out-null
:0 | Out-File "C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO"
:0="C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO"
CAINFO=$GIT_SSL_CAINFO
:_CA_FILE=""
Runner\builds\0\project-1.tmp" -Force | out-null
:_CA_FILE | Out-File "C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE"
:_CA_FILE="C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE"
:_TLS_CA_FILE=$CI_SERVER_TLS_CA_FILE
Runner\builds\0\project-1"
: $LASTEXITCODE }

g cache..."
er-windows-amd64.exe" "archive" "--file" "..\..\..\cache\project-1\pages\master\cache.tgz" "--path'
: $LASTEXITCODE }

LASTEXITCODE }
```

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