

Best Practices

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ements a few shell script generators that allow to execute builds on different systems.

tain commands to execute all steps of the build:

uild cache

nds

uild cache

upload the build artifacts

e any configuration options. The build steps are received from the commands defined in the script directive in

rted shells are:

tus	Description
y ported	Bash (Bourne-shell) shell. All commands executed in Bash context (default for all Unix systems)
y ported	Sh (Bourne-shell) shell. All commands executed in Sh context (fallback for bash for all Unix systems)
orecated	Windows Batch script. All commands are executed in Batch context. Default when no shell is specified. Due for removal on Jun 22, 2020 in favor of PowerShell.
y oported	Windows PowerShell script. All commands are executed in PowerShell context. Default when registering a new Runner in version 12.0 or newer.

t a particular shell to use other than the default, you will need to <u>specify the shell</u> in your <u>config.toml</u> file.

lls

hell used on all Unix based systems. The bash script used in <code>.gitlab-ci.yml</code> is executed by piping the shell script ing commands:

```
.s used if the build should be executed in context
r (the shell executor)
sh-script | su --shell /bin/bash --login user
.s used if the build should be executed using
ser, but in a login environment
sh-script | /bin/bash --login
.s used if the build should be executed in
onment
sh-script | /bin/bash
```

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ows Batch will be removed in GitLab 13.0 (Jun 22, 2020).

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

11.11, the Windows Batch executor for the GitLab Runner was deprecated in favor of the PowerShell executor.

ne default shell used on Windows when shell is not specified.

xecuting the build in context of another user.

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

ted-windows-batch.cmd

ple batch script looks like:

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```
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```
elayedExpansion
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Install
Configure
                      %COMPUTERNAME%...
Register
                       NEQ 0 exit /b !errorlevel!
Executors
Monitor
                       NEQ 0 exit /b !errorlevel!
Security
Shells
                       NEQ 0 exit /b !errorlevel!
Troubleshoot
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Best Practices
                       IA=db45ad9af9d7af5e61b829442fd893d96e31250c
                       FORE_SHA=d63117656af6ff57d99e50cc270f854691f335ad
                       F_NAME=master
                      Y_URL=http://gitlab.example.com/group/project.git
                      :D=1
                       IR=Z:\Gitlab\tests\test\builds\0\project-1
                       ME=GitLab CI
                       RSION=
                       VISION=
                       ·ue
                       kunner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL
                      1!tls!nl!chain > C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO
                      |FO=C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO
                       kunner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL
                       S_CA_FILE=C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE
                       ository...
                       :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" (
                       -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"
                       rel! NEQ 0 exit /b !errorlevel!
                       IA=db45ad9af9d7af5e61b829442fd893d96e31250c
                       FORE_SHA=d63117656af6ff57d99e50cc270f854691f335ad
                       F NAME=master
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```



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```
Runner Docs
                        !S
                        ME=GitLab CI
Install
                        RSION=
                        :VISION=
Configure
                        kunner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL
Register
                        1!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
Executors
                        kunner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL
Monitor
                        1!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
Security
                        -Runner\builds\0\project-1"
                        NEQ 0 exit /b !errorlevel!
Shells
Troubleshoot
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                        IA=db45ad9af9d7af5e61b829442fd893d96e31250c
                        FORE_SHA=d63117656af6ff57d99e50cc270f854691f335ad
                        F_NAME=master
                        Y_URL=Z:\Gitlab\tests\test
                        IR=Z:\Gitlab\tests\test\builds\0\project-1
                        !S
                        ME=GitLab CI
                        RSION=
                        VISION=
                        kunner\\builds\\0\\project-1.tmp" 2>NUL 1>NUL
                        1!tls!nl!chain > C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO
                        |FO=C:\GitLab-Runner\builds\0\project-1.tmp\GIT_SSL_CAINFO
                        kunner\\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
                        -Runner\builds\0\project-1"
                        NEQ 0 exit /b !errorlevel!
                        ache...
                        /indows-amd64.exe" "archive" "--file" "..\..\cache\project-1\pages\master\cache.tgz" "--path" "ve
                        NEQ 0 exit /b !errorlevel!
                        len 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:
                        ofile -noninteractive -executionpolicy Bypass -command generated-windows-powershell.ps1
                        ple PowerShell script looks like:
```

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```
$env:computername..."
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Install
Configure
                        -- "db45ad9af9d7af5e61b829442fd893d96e31250c"
Register
                        _SHA=$CI_COMMIT_SHA
                        ORE_SHA="d63117656af6ff57d99e50cc270f854691f335ad"
Executors
                         _BEFORE_SHA=$CI_COMMIT_BEFORE_SHA
                        NAME="master"
Monitor
                        __REF_NAME=$CI_COMMIT_REF_NAME
Security
                        )=$CI_JOB_ID
Shells
                        _URL="Z:\Gitlab\tests\test"
                        TORY_URL=$CI_REPOSITORY_URL
Troubleshoot
                        )="1"
Contribute

✓ T_ID=$CI_PROJECT_ID

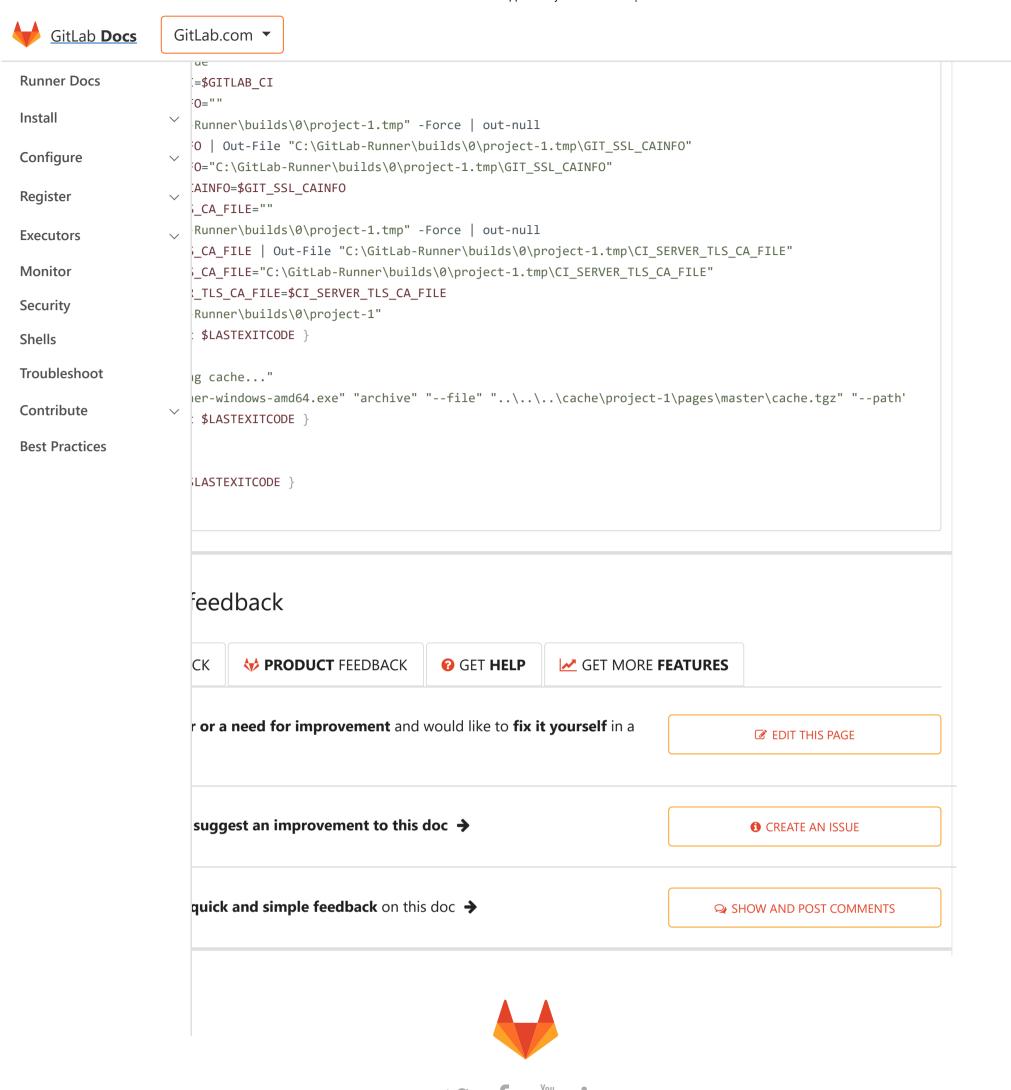
                       R="Z:\Gitlab\tests\test\builds\0\project-1"
Best Practices
                       T_DIR=$CI_PROJECT_DIR
                       :s"
                        =$CI_SERVER
                        NE="GitLab CI"
                        L_NAME=$CI_SERVER_NAME
                       SION=""
                        _VERSION=$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"
                        AINFO=$GIT_SSL_CAINFO
                        CA_FILE=""
                        Runner\builds\0\project-1.tmp" -Force | out-null
                        _CA_FILE | Out-File "C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE"
                        _CA_FILE="C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE"
                        _TLS_CA_FILE=$CI_SERVER_TLS_CA_FILE
                        repository..."
                        nd -Name Remove-Item2 -Module NTFSSecurity -ErrorAction SilentlyContinue) -and (Test-Path "C:\GitLa
                        ! -Force -Recurse "C:\GitLab-Runner\builds\0\project-1"
                        Path "C:\GitLab-Runner\builds\0\project-1") {
                        -Force -Recurse "C:\GitLab-Runner\builds\0\project-1"
                        " "https://gitlab.com/group/project.git" "Z:\Gitlab\tests\test\builds\0\project-1"
                         $LASTEXITCODE }
                        Runner\builds\0\project-1"
                         $LASTEXITCODE }
                         out db45ad9a as master...
                        out" "db45ad9af9d7af5e61b829442fd893d96e31250c"
                         $LASTEXITCODE }
                        ..\..\cache\project-1\pages\master\cache.tgz" -PathType Leaf) {
                        ing cache..."
                        Inner-windows-amd64.exe" "extract" "--file" "..\..\cache\project-1\pages\master\cache.tgz"
                        it $LASTEXITCODE }
                        "..\..\cache\project-1\pages\master\cache.tgz" -PathType Leaf) {
                        oring cache..."
                        runner-windows-amd64.exe" "extract" "--file" "..\..\cache\project-1\pages\master\cache.tgz"
                        Exit $LASTEXITCODE }
```

```
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```
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Install
                        ="db45ad9af9d7af5e61b829442fd893d96e31250c"
Configure
                         _SHA=$CI_COMMIT_SHA
                        ORE_SHA="d63117656af6ff57d99e50cc270f854691f335ad"
Register
                         _BEFORE_SHA=$CI_COMMIT_BEFORE_SHA
                        NAME="master"
Executors
                         _REF_NAME=$CI_COMMIT_REF_NAME
Monitor
                        )=$CI_JOB_ID
Security
                        _URL="Z:\Gitlab\tests\test"
                        TORY_URL=$CI_REPOSITORY_URL
Shells
                        )="1"
Troubleshoot
                        T_ID=$CI_PROJECT_ID
                        R="Z:\Gitlab\tests\test\builds\0\project-1"
Contribute
                        T_DIR=$CI_PROJECT_DIR
                        :s"
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                        k=$CI_SERVER
                        NE="GitLab CI"
                        L_NAME=$CI_SERVER_NAME
                        RSION=""
                        _VERSION=$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"
                        AINFO=$GIT_SSL_CAINFO
                        _CA_FILE=""
                        Runner\builds\0\project-1.tmp" -Force | out-null
                        _CA_FILE | Out-File "C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE"
                        _CA_FILE="C:\GitLab-Runner\builds\0\project-1.tmp\CI_SERVER_TLS_CA_FILE"
                        _TLS_CA_FILE=$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"
                        =$CI_SERVER
                        NE="GitLab CI"
                        _NAME=$CI_SERVER_NAME
                        SION=""
                        _VERSION=$CI_SERVER_VERSION
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```

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