

Git / Go Setup Checklist to Resolve go get/build Private Repository Access Errors

If experiencing issues fetching from the remote repository while building, check the following.

- Ensure you have cloned the git repository as follows:
 - `git clone codecommit://default@qsd-unity-next`
- Clear your go cache. May be here `C:\Users\<User>\go\pkg\mod\cache`
- Install Go program from link: <https://golang.org/dl/> you might select stable version instead of the most recent version to void go build issues. (e.g., version 1.13.15)
- Ensure Git version 2.17.1 is installed.
 - If experiencing the display of the Git Credential Helper window, you are advised to uninstall and reinstall without the "Git Credential Manager" option.
 - When running the installer deselect "Only show new options".
 - For Git Credential step(Enable Git Credentials Manager), it should be **unchecked (Or select "None")**.
 - See "Git for Windows: I installed Git for Windows, but I am denied access to my repository (403)" in <https://docs.aws.amazon.com/codecommit/latest/userguide/troubleshooting-ch.html>
- Ensure you have a .gitconfig file located in your user folder (Ex. `C:\Users\<User>`).
 - If the file doesn't exist, you can copy the linked file and update the name and email address in the contents. [Sample .gitconfig](#)
- Ensure the following is in the .gitconfig file:

```
[credential]
helper = !aws codecommit credential-helper $@
UseHttpPath = true
```
- Ensure you have the GOPRIVATE environment variable set. Verify by running **go env** on the command line. You can set it using the following command:
 - `go env -w GOPRIVATE=git-codecommit.us-west-2.amazonaws.com/v1/repos/*`
- Double-check that you have followed the steps in the [CodeCommit Setup Document](#).

- Restart your machine after changes. It may not be necessary but may help ensure that services are using updated configuration changes.
- Ensure you have the versions of the following applications:
 - Python 3.8.5
 - Awscli 2.0.50

Sample Go Environment Variables:

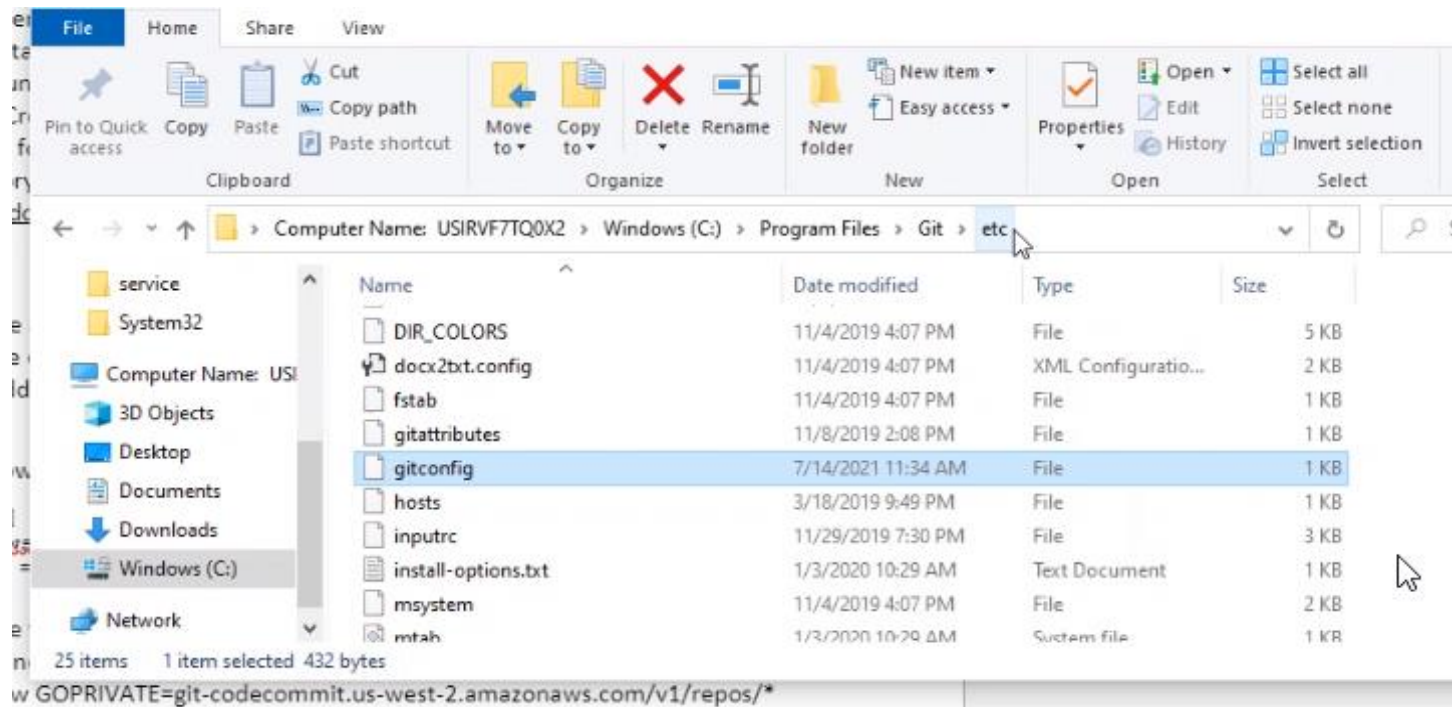
```
C:\usr\local\unity-next\src\qsd-unity-next>go env
set GO111MODULE=
set GOARCH=amd64
set GOBIN=C:\usr\local\unity-next\bin
set GOCACHE=C:\Users\<User>\AppData\Local\go-build
set GOENV=C:\Users\<User>\AppData\Roaming\go\env
set GOEXE=.exe
set GOFLAGS=
set GOHOSTARCH=amd64
set GOHOSTOS=windows
set GONOPROXY=git-codecommit.us-west-2.amazonaws.com/v1/repos/*
set GONOSUMDB=git-codecommit.us-west-2.amazonaws.com/v1/repos/biorad-qsd-shared.git,git-codecommit.us-west-2.amazonaws.com/v1/repos/qsd-unity-next-shared.git,git-codecommit.us-west-2.amazonaws.com/v1/repos/werner-test-shared.git
set GOOS=windows
set GOPATH=C:\usr\local\unity-next\
set GOPRIVATE=git-codecommit.us-west-2.amazonaws.com/v1/repos/*
set GOPROXY=https://proxy.golang.org,direct
set GOROOT=c:\go
set GOSUMDB=sum.golang.org
set GOTMPDIR=
set GOTOOLDIR=c:\go\pkg\tool\windows_amd64
set GCCGO=gccgo
set AR=ar
set CC=gcc
set CXX=g++
set CGO_ENABLED=1
set GOMOD=
set CGO_CFLAGS=-g -O2
set CGO_CPPFLAGS=
set CGO_CXXFLAGS=-g -O2
set CGO_FFLAGS=-g -O2
set CGO_LDFLAGS=-g -O2
set PKG_CONFIG=pkg-config
```

set GOGCCFLAGS=-m64 -mthreads -fno-caret-diagnostics -Qunused-arguments -fmessage-length=0 -fdebug-prefix-map=C:\Users\<User>\AppData\Local\Temp\go-build862315894=/tmp/go-build -gno-record-gcc-switches

Set globally

The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays the project structure with folders like 'constants', 'models', 'repository', and 'service'. The main editor area shows the 'gitconfig' file located at 'C:\Program Files\Git\etc\gitconfig'. The file content is as follows:

```
1 [diff "astextplain"]
2   textconv = astextplain
3 [filter "lfs"]
4   clean = git-lfs clean -- %f
5   smudge = git-lfs smudge -- %f
6   process = git-lfs filter-process
7   required = true
8 [http]
9   sslBackend = openssl
10  sslCAInfo = C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
11 [core]
12   autocrlf = true
13   fscache = true
14   symlinks = false
15 [credential]
16   #helper = manager
17   helper = !aws codecommit credential-helper $@
18   UseHttpPath = true
19
```



it you have followed the steps in the [CodeCommit Setup Document](#).

NOTE:

If runs into the following error

```
go: downloading git-codecommit.us-west-2.amazonaws.com/v1/repos/biorad-qsd-shared.git/logger
v1.0.5
..\..\shared\utility\common.go:21:2: reading git-codecommit.us-west-
2.amazonaws.com/v1/repos/biorad-qsd-shared.git/logger/logger/go.mod at revision logger/v1.0.5: git
ls-remote -q origin in
C:\codecommit\src\pkg\mod\cache\vcs\6cb698a9f5f702c2deec177c9a694344b38ae3edc1ce3e5ccd2b1
0bd4c924fa9: exit status 128:
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

Step to resolve is to clear the cache

```
go clean -modcache
```