

# CI Issues

## remote: You are not allowed to download code from this project.

```
Cloning into '/builds/group/project/buildroot/src/maginc-submodule'...
remote: You are not allowed to download code from this project.
fatal: unable to access
'https://gitlab.example.com/groups/project/magic-submodule.git': The
requested URL returned error: 403
fatal: clone of
'https://gitlab-ci-token:[MASKED]@gitlab.example.com/groups/project/magic-su
bmodule.git' into submodule path
'/builds/group/project/buildroot/src/maginc-submodule' failed
```

Reason: [Default CI/CD job token \(CI\\_JOB\\_TOKEN\) scope changed](#)

More: [Allow access to your project with a job token](#)

Solution:

- Go to Submodule to be cloned in Gitlab UI
- Settings -> CI/CD -> Token Access

## fatal: No names found, cannot describe anything

```
fatal: No names found, cannot describe anything.
```

When `git describe --tags` is used to detect version name but repository doesn't contain tags.

Possible reasons of failure:

- shallow clone, to unshallow run `sudo git fetch --unshallow`
- gitlab ???

## cannot run ssh

```
Synchronizing submodule url for 'xxx'
Cloning into 'xxx'...
error: cannot run ssh: No such file or directory
fatal: unable to fork
fatal: clone of 'git@gitlab.xxx:xxx/xxx.git' into submodule path 'xxx'
failed
```

Looks like SSH client is not installed in Job image (install `openssh-clients`).

**Reason:** During clone operation Gitlab Runner is using small helper (around 66MB) image where ssh client is not installed:

```
docker run --rm -it registry.gitlab.com/gitlab-org/gitlab-runner/gitlab-runner-helper:alpine-latest-x86_64-000bc602 ssh
```

It is possible to chose flavour of helper image: [helper-image](#)

Images source: [runner-helper](#)

Ubuntu helper flavour contains ssh client:

```
docker run --rm -it gitlab/gitlab-runner-helper:ubuntu-x86_64-bleeding ssh
docker run --rm -it gitlab/gitlab-runner-helper:ubuntu-x86_64-v15.11.1 ssh
```

**Solution:** use Ubuntu based helper image:

[config.toml](#)

```
[runners.docker]
  helper_image = "gitlab/gitlab-runner-helper:ubuntu-x86_64-v16.0.2"
  helper_image_flavor = "ubuntu"
```

**Workaround 1:** use relative submodules as described in [Using relative URLs](#). Gitlab runner will use https to clone submodules.

**Workaround 2:** [Rewrite submodule URLs to HTTPS](#)

## CAfile: none

```
fatal: unable to access
'https://gitlab-ci-token:[MASKED]@gitlab.example.com/superproject/sandbox.git/': server certificate verification failed. CAfile: none CRLfile: none
```

Problem test:

```
git clone https://gitlab.example.com
```

```
fatal: unable to access 'https://gitlab.example.com/': server certificate
verification failed. CAfile: none CRLfile: none
```

Solution:

```
sudo apt update; sudo apt install -yq libgnutls30 ca-certificates
```

Dockerfile fix:

```
RUN apt-get update && apt-get install -yq --no-install-recommends \
```

```
ca-certificates \  
libgnutls30 \  
&& apt-get clean && rm -rf /var/lib/apt/lists/*
```

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