Project Protocol - Milestone 2

Team 1

Alexander Nachtmann, Markus Rösner, Max Sinnl and Stephanie Rauscher

Infrastructure Overview

In contrast to our Infrastructure Specification Protocol, we have made a few changes to our infrastructure. All servers use **Ubuntu version 22.04** as their operating system.

Instance Name	Container Type	IP	Domain	Packages	Subnet
Gitlab Server	T2.medium	Private IP: 10.0.1.49 Public IP (elastic): 54.88.228.103	git.team01.at	GitLab 16.6.1	Public
Bastion Host	T2.micro	Private IP: 10.0.2.61 Public IP always changes after restart	bastionhost.team01.at	-	Public
Gitlab Runner	T2.small	Private IP: 10.0.2.70	gitrunner.team01.at	GitLab Runner 16.6.1	Private
Main DNS- Server	T2.micro	Private IP: 10.0.2.49	dnsmain.team01.at	BIND 9	Private
Backup DNS Server	T2.micro	Private IP: 10.0.2.48	dnsbackup.team01.at	BIND 9	Private

For this milestone, we have omitted the configuration of the LDAP server.

Routing Tables

Public Subnet Route Table

Destination IP	Target name
10.0.0.0/16	VPC
0.0.0.0/0	Internet Gateway

Destination IP 10.0.0.0/16 - Target: VPC

This entry indicates that any traffic destined for an IP address within the 10.0.0.0/16 range) should be routed internally within the VPC. It essentially means that all IPs in this range are part of the VPC network. This is a standard entry for internal network routing within the VPC.

Destination IP 0.0.0.0/0 - Target: Internet Gateway

This entry is for routing all other traffic (not destined for the internal VPC network) to the Internet Gateway. The destination IP 0.0.0.0/o represents all IP addresses not covered by more specific routes.

Private Subnet Route Table

Destination IP	Target name
0.0.0.0/0	NAT Gateway
10.0.0.0/16	VPC

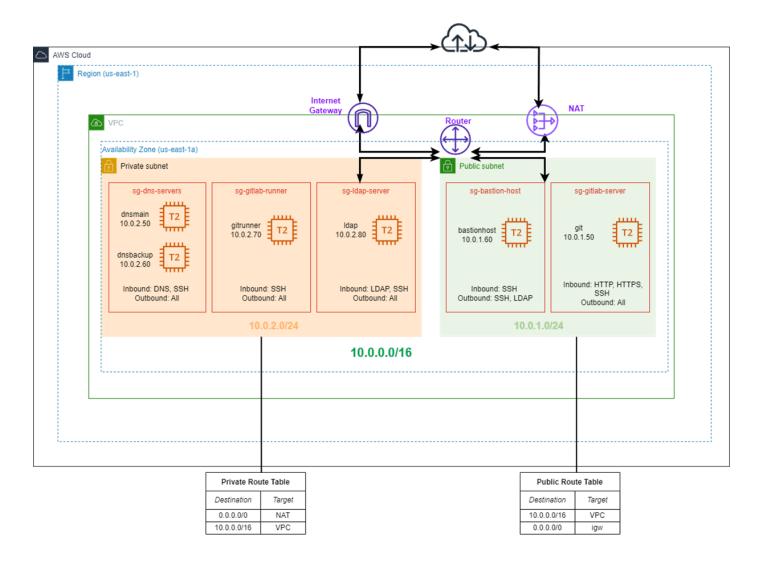
Destination IP 0.0.0.0/0 - Target: NAT Gateway

This route directs all traffic that is not for local destinations (i.e., any destination not within the VPC) to a Network Address Translation (NAT) Gateway. It's used for allowing instances in the Private Subnet to access the internet for updates or downloads, but not allowing incoming internet traffic to initiate connections with those instances.

Destination IP 10.0.0.0/16 - Target: VPC

Similar to the Public Subnet, this entry ensures that traffic destined for the VPC's internal IP range is kept within the VPC network.

Network Topology Graph



Security Groups

The (updated) Security Groups we used for our Project were:

Inbound Rules

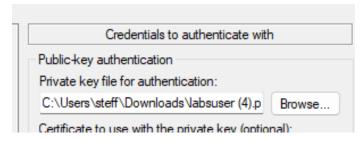
SG Name	Туре	Port Range	Source
scg-gitlab-server	HTTP, HTTPS, SSH	TCP 80, TCP443 TCP 22	0.0.0.0/0 0.0.0.0/0 10.0.1.61/32
scg-bastion-host	SSH	TCP 22	10.0.0.0/16
scg-gitlab-runner	SSH	TCP 22	10.0.1.61/32
scg-dnsservers	DNS, SSH	TCP/UDP 53 TCP 22	10.0.0.0/16 10.0.1.61/32

Outbound Rules

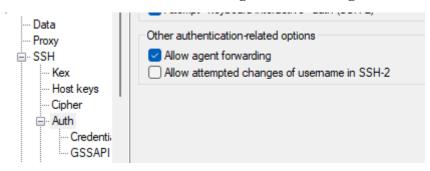
SG Name	Туре	Port Range	Source
scg-gitlab-server	All Destinations	-	0.0.0.0/0
scg-bastion-host	SSH	TCP 22	10.0.0.0/16
scg-gitlab- runner	All Destinations	-	0.0.0.0/0
scg-dns-servers	All Destinations	-	0.0.0.0/0

Configuration of Services

First, we start by connecting to the Bastion Host (Jump Server) via SSH. We upload the .ppk file from AWS as our credentials in SSH, under 'Auth' -> 'Credentials'.



and tick the box labeled 'Allow Agent Forwarding' in SSH -> Auth.



We use the public IP of the Bastion Host to connect to the instance. From there, we can connect to every other instance in our infrastructure using the command *ssh ubuntu@IP*.

Configuration of the Primary DNS Server

From the Jump Server, we connect to the Primary DNS Server using the command ssh ubuntu@10.0.2.49 (10.0.2.49 being the IP of our Primary DNS Server). From there, we use the commands

```
sudo apt update and sudo apt install bind9 for installing BIND on our DNS Server.
```

To ensure BIND is running, we use:

```
sudo systemctl start named
sudo systemctl enable named
```

Then we edit the /etc/bind/named.conf file to define our zones:

sudo nano /etc/bind/named.conf

```
■ ubuntu@ip-10-0-2-49: ~
                                                                              GNU nano 6.2
                                  /etc/bind/named.conf
  This is the primary configuration file for the BIND DNS server named.
  Please read /usr/share/doc/bind9/README.Debian.gz for information on the
  structure of BIND configuration files in Debian, *BEFORE* you customize
  this configuration file.
  If you are just adding zones, please do that in /etc/bind/named.conf.local
include "/etc/bind/named.conf.options";
include "/etc/bind/named.conf.local";
include "/etc/bind/named.conf.default-zones";
zone "team01.at" {
   type master;
   file "/etc/bind/db.team01.at";
   allow-transfer { 10.0.2.48; };
```

Next, we create our zone file /etc/bind/db.teamo1.at with all of our DNS Zones:

sudo nano /etc/bind/db.team01.at

```
    ubuntu@ip-10-0-2-49: ~

                                                                                         GNU nano 6.2
                                      /etc/bind/db.team01.at
 BIND data file for local loopback interface
        604800
STTL
        IN
                SOA
                         dnsmain.team01.at. admin.team01.at. (
                               6
                                         ; Serial
                          604800
                                         ; Refresh
                                         ; Retry
                           86400
                         2419200
                                         ; Expire
                          604800 )
                                         ; Negative Cache TTL
                NS
                         dnsmain.team01.at.
        IN
                NS
                         dnsbackup.team01.at.
dnsmain IN
                         10.0.2.49
                A
dnsbackup
                IN
                         A
bastionhost IN
                        10.0.1.61
       IN
git
                Α
git
        IN
               Α
                       54.88.228.103
gitrunner IN
ldap
       IN
               A
                                      [ Read 21 lines ]
                               ^W Where Is
  Help
                ^O Write Out
                                                                 Execute
                                                                                 Location
                  Read File
```

we check the configuration for errors:

```
sudo named-checkconf
sudo named-checkzone team01.at /etc/bind/zones/db.team01.at
```

Restart BIND to apply changes:

```
sudo systemctl restart named
```

To avoid local resolving Problems, we navigate to the File

sudo nano /etc/systemd/resolved.conf

```
GNU nano 6.2
                              /etc/systemd/resolved.conf
  This file is part of systemd.
  terms of the GNU Lesser General Public License as published by the Free
  Software Foundation; either version 2.1 of the License, or (at your option)
 Entries in this file show the compile time defaults. Local configuration
 should be created by either modifying this file, or by creating "drop-ins" in
 Defaults can be restored by simply deleting this file and all drop-ins.
 Use 'systemd-analyze cat-config systemd/resolved.conf' to display the full config.
 See resolved.conf(5) for details.
 Some examples of DNS servers which may be used for DNS= and FallbackDNS=:
 Cloudflare: 1.1.1.1#cloudflare-dns.com 1.0.0.1#cloudflare-dns.com 2606:4700:4700:
            8.8.8.#dns.google 8.8.4.4#dns.google 2001:4860:4860::8888#dns.google
             9.9.9.9#dns.quad9.net 149.112.112.112#dns.quad9.net 2620:fe::fe#dns.q
 Ouad9:
NS=10.0.2.49 10.0.2.48
FallbackDNS=
Domains=
DNSSEC=no
DNSOverTLS=no
```

We will edit the file and, under the 'DNS=' section, insert the IPs of both our DNS servers.

We also create the File sudo nano /etc/netplan/99-custom-dns.yaml with the following content

```
dbuntu@ip-10-0-2-49; ~

GNU nano 6.2     /etc/netplan/99-custom-dns.yaml
network:
    version: 2
    ethernets:
        eth0:
        nameservers:
            addresses: [10.0.2.49, 10.0.2.48]
        dhcp4-overrides:
            use-dns: false
            use-domains: false
```

use these commands to apply changes

```
sudo netplan generate
sudo netplan apply
Restart BIND
sudo systemctl restart bind9
```

Testing

To test if our zones are set up correctly, we use the following command from another server in our VPC (from our Gitlab Server with the IP 10.0.1.49):

```
nslookup bastionhost.team01.at 10.0.2.49
```

```
ubuntu@ip-10-0-1-49:~$ nslookup bastionhost.team01.at 10.0.2.49
Server: 10.0.2.49
Address: 10.0.2.49#53
Name: bastionhost.team01.at
Address: 10.0.1.61
```

We also try it on our DNS Server

```
nslookup git.team01.at 10.0.2.49
```

```
ubuntu@ip-10-0-2-49:~$ nslookup git.team01.at 10.0.2.49
Server: 10.0.2.49
Address: 10.0.2.49#53

Name: git.team01.at
Address: 54.88.228.103
Name: git.team01.at
Address: 10.0.1.49
```

And we query our Main DNS Server one last time

```
dig bastionhost.team01.at @10.0.2.49
```

```
ubuntu@ip-10-0-2-49; ~
                                                                              ubuntu@ip-10-0-2-49:~$ dig bastionhost.team01.at @10.0.2.49
 <>>> DiG 9.18.18-0ubuntu0.22.04.1-Ubuntu <<>> bastionhost.team01.at @10.0.2.49
; global options: +cmd
; Got answer:
; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 46824
; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
; OPT PSEUDOSECTION:
 EDNS: version: 0, flags:; udp: 1232
 COOKIE: 6a5d291cfc5c2c40010000006576da6dc874d4765e6e8c71 (good)
; QUESTION SECTION:
;bastionhost.team01.at.
;; ANSWER SECTION:
bastionhost.team01.at. 604800 IN
                                                  10.0.1.61
;; Query time: 0 msec
; SERVER: 10.0.2.49#53(10.0.2.49) (UDP)
; WHEN: Mon Dec 11 09:46:21 UTC 2023
; MSG SIZE rcvd: 94
abuntu@ip-10-0-2-49:~$
```

Since we can see it returning the IP of our Bastion Host and Gitlab Server, our setup works as planned.

For also making DNS reverse lookup work, we do the following:

We locate the /etc/bind/named.conf.local file

sudo nano /etc/bind/named.conf.local

and edit it like this:

```
GNU nano 6.2 /etc/bind/named.conf.local

// Do any local configuration here

// Consider adding the 1918 zones here, if they are not used in your

// organization

//include "/etc/bind/zones.rfc1918";

//

// Do any local configuration here

zone "2.0.10.in-addr.arpa" {
   type master;
   file "/etc/bind/db.2.0.10";
   allow-transfer { 10.0.2.48; };

zone "1.0.10.in-addr.arpa" {
   type master;
   file "/etc/bind/db.1.0.10";
   allow-transfer { 10.0.2.48; };

;;
```

The file **db.2.0.10** is used for defining reverse zone files in the private subnet, while the file **db.1.0.10** is for defining reverse zone files in the public subnet. We specify 'type master;' because this server is our main DNS, and we set 'allow-transfer' to enable the transfer of all zone files later to our backup DNS server.

We create both files and then edit them with the reverse zone files for our subnets:

sudo nano /etc/bind/db.2.0.10 Private Subnet

```
# ubuntu@ip-10-0-2-49: ~
                                                                               GNU nano 6.2
                                   /etc/bind/db.2.0.10
 BIND reverse data file for local loopback interface
TTL
       604800
       IN
               SOA
                        dnsmain.team01.at. admin.team01.at. (
                                       ; Serial
                         604800
                                        ; Refresh
                          86400
                                        ; Retry
                        2419200
                                        ; Expire
                         604800 )
                                        ; Negative Cache TTL
       IN
               NS
                       dnsmain.team01.at.
       IN
               PTR
                       dnsmain.team01.at.
       IN
               PTR
                       dnsbackup.team01.at.
       IN
              PTR
                       gitrunner.team01.at.
       IN
              PTR
                       ldap.team01.at.
```

sudo nano /etc/bind/db.1.0.10 Public Subnet

```
ubuntu@ip-10-0-2-49: ~
 GNU nano 6.2
                                         /etc/bind/db.1.0.10
        604800
        IN
                SOA
                         dnsmain.team01.at. admin.team01.at. (
                            3
                                       : Serial
                         604800
                                         ; Refresh
                          86400
                                         ; Retry
                        2419200
                                         ; Expire
                         604800 )
                                         ; Negative Cache TTL
        IN
                NS
                         dnsmain.team01.at.
        IN
                NS
                          dnsbackup.team01.at.
                         bastionhost.team01.at.
        IN
                PTR
        IN
                PTR
                         git.team01.at.
```

We will also configure our DNS server to forward queries to external DNS servers. If there is no local record for the external domain, the query is forwarded to the configured forwarder DNS servers, which in our case are Google's DNS servers at 8.8.8.8 and 8.8.4.4. Once Google's DNS servers retrieve the response, they send this information back to our DNS server.

Additionally, we use 'allow-query-cache' to avoid DNS cache problems.

sudo nano /etc/bind/named.conf.options

```
ubuntu@ip-10-0-2-49: ~
                                                                                            GNU nano 6.2
                                   /etc/bind/named.conf.options *
        directory "/var/cache/bind";
        // If there is a firewall between you and nameservers you want
        // to talk to, you may need to fix the firewall to allow multiple
// ports to talk. See http://www.kb.cert.org/vuls/id/800113
        // If your ISP provided one or more IP addresses for stable
        // nameservers, you probably want to use them as forwarders.
// Uncomment the following block, and insert the addresses replacing
        // the all-0's placeholder.
   forwarders {
       8.8.8.8; // Google's DNS
8.8.4.4; // googles secondary dns
   forward only;
 // Cache access control
   allow-query-cache { any; };
        // If BIND logs error messages about the root key being expired,
        // you will need to update your keys. See https://www.isc.org/bind-keys
        dnssec-validation auto;
        listen-on-v6 { any; };
                                ^W Where Is
                  Write Out
```

Testing

We will now verify the functionality of reverse lookup and DNS forwarding. Reverse Lookup:

dig -x 10.0.2.70 @10.0.2.49 (from Bastion Host)

```
    ubuntu@ip-10-0-1-61: ~

                                                                 - 🗆 X
Connection to 10.0.2.49 closed.
ubuntu@ip-10-0-1-61:~$ dig -x 10.0.2.70 @10.0.2.49
 <<>> DiG 9.18.12-0ubuntu0.22.04.3-Ubuntu <<>> -x 10.0.2.70 @10.0.2.49
;; global options: +cmd
;; Got answer:
; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 60145
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
 EDNS: version: 0, flags:; udp: 1232
 COOKIE: e48251b18ddd850b010000006576ddac7b4e7d796fd90ca7 (good)
;; QUESTION SECTION:
;70.2.0.10.in-addr.arpa.
                                      IN
                                              PTR
;; ANSWER SECTION:
70.2.0.10.in-addr.arpa. 604800 IN
                                      PTR
                                              gitrunner.team01.at.
;; Query time: 0 msec
; SERVER: 10.0.2.49#53(10.0.2.49) (UDP)
; WHEN: Mon Dec 11 10:00:12 UTC 2023
; MSG SIZE rcvd: 112
ubuntu@ip-10-0-1-61:~$
dig +short -x 10.0.2.70 @10.0.2.49 (from Bastion Host)
ubuntu@ip-10-0-1-61:~$ dig +short -x 10.0.2.70 @10.0.2.49
gitrunner.team01.at.
ubuntu@ip-10-0-1-61:~$
dig +short -x 10.0.2.70 @10.0.2.49 (from Gitlab Server)
dig +short -x 10.0.1.61 @10.0.2.49 (from Gitlab Server)
ubuntu@ip-10-0-1-49:~$ dig +short -x 10.0.2.70 @10.0.2.49
gitrunner.team01.at.
ubuntu@ip-10-0-1-49:~$ dig +short -x 10.0.1.61 @10.0.2.49
bastionhost.team01.at.
ubuntu@ip-10-0-1-49:~$
```

Forward DNS Lookup for an External Domain

```
dig www.google.com @10.0.2.49
```

```
ubuntu@ip-10-0-1-49: ~
buntu@ip-10-0-1-49:~$ dig www.google.com @10.0.2.49
 <>>> DiG 9.18.12-Oubuntu0.22.04.3-Ubuntu <<>> www.google.com @10.0.2.49
 global options: +cmd
 Got answer:
  ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 26840
 flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1
 OPT PSEUDOSECTION:
 EDNS: version: 0, flags:; udp: 1232
 COOKIE: 13alblb3d62f5751010000006576f3aldfdalcc4ac21525d (good)
 QUESTION SECTION:
www.google.com.
                                       IN
; ANSWER SECTION:
ww.google.com.
                       247
                               IN
                                               172.253.63.99
ww.google.com.
                       247
                               IN
                                               172.253.63.103
ww.google.com.
                       247
                               IN
                                               172.253.63.104
ww.google.com.
                       247
                               IN
                                               172.253.63.105
ww.google.com.
                       247
                               IN
                                               172.253.63.106
ww.google.com.
                       247
                               IN
                                               172.253.63.147
 Query time: 7 msec
 SERVER: 10.0.2.49#53(10.0.2.49) (UDP)
  WHEN: Mon Dec 11 11:33:53 UTC 2023
  MSG SIZE rcvd: 167
```

From these tests, we can see that the reverse lookup for our main DNS server is functioning properly.

Configuring the Backup DNS Server

We disconnect from our Primary DNS using exit and connect to our Backup DNS using ssh ubuntu@10.0.2.48

We start configuring the Backup DNS Server like we did with the primary Server previously with the following commands

```
sudo apt update and
sudo apt install bind9 for installing BIND on our DNS Server.
We create a new directory
sudo mkdir /var/cache/bind/slaves
sudo chown bind:bind /var/cache/bind/slaves
```

Then, we modify our **named.conf.local** file to match the configuration shown in the screenshot. By setting 'type slave;', we designate this server as our Backup DNS (Slave) Server.

sudo nano /etc/bind/named.conf.local

```
    ubuntu@ip-10-0-2-48: ~

 GNU nano 6.2
                                /etc/bind/named.conf.local
  Do any local configuration here
  Consider adding the 1918 zones here, if they are not used in your
 / organization
 /include "/etc/bind/zones.rfc1918";
/ Secondary DNS configuration for reverse zones
zone "2.0.10.in-addr.arpa" {
    type slave;
    file "slaves/db.2.0.10";
   masters { 10.0.2.49; }; // IP address of the primary DNS server
zone "1.0.10.in-addr.arpa" {
    type slave;
    file "slaves/db.1.0.10";
    masters { 10.0.2.49; }; // IP address of the primary DNS server
```

We also edit the **named.conf** file

sudo nano /etc/bind/named.conf

```
    ubuntu@ip-10-0-2-48: ~

                                                                              GNU nano 6.2
                                  /etc/bind/named.conf
  This is the primary configuration file for the BIND DNS server named.
  Please read /usr/share/doc/bind9/README.Debian.gz for information on the
  structure of BIND configuration files in Debian, *BEFORE* you customize
  this configuration file.
// If you are just adding zones, please do that in /etc/bind/named.conf.local
include "/etc/bind/named.conf.options";
include "/etc/bind/named.conf.local";
include "/etc/bind/named.conf.default-zones";
zone "team01.at" {
   type slave;
   file "slaves/db.team01.at";
   masters { 10.0.2.49; }; // IP address of the primary DNS server
```

There is no need to copy paste the zone files, since they will transfer automatically. After editing both files, we restart BIND

```
sudo systemctl restart bind9
```

If the zone transfer worked, the files on the secondary server should look similar to this

Testing

We test if our Backup DNS Server (10.0.2.48) can take queries as well.

```
nslookup git.team01.at 10.0.2.48
```

```
ubuntu@ip-10-0-1-49:~$ nslookup git.team01.at 10.0.2.48
Server: 10.0.2.48
Address: 10.0.2.48#53

Name: git.team01.at
Address: 10.0.1.49

ubuntu@ip-10-0-1-49:~$
```

```
dig -x 10.0.1.61 @10.0.2.48
```

```
ubuntu@ip-10-0-1-49:~$ dig -x 10.0.1.61 @10.0.2.48
; <<>> DiG 9.18.12-Oubuntu0.22.04.3-Ubuntu <<>> -x 10.0.1.61 @10.0.2.48
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 7576
; flags: qr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; WARNING: recursion requested but not available
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
 COOKIE: 477b96f4dcacf39c0l0000006576f57322e3f32253fb9200 (good)
; QUESTION SECTION:
;61.1.0.10.in-addr.arpa.
                                        IN
                                                PTR
;; ANSWER SECTION:
61.1.0.10.in-addr.arpa. 604800 IN
                                        PTR
                                                bastionhost.team01.at.
;; Query time: 0 msec
;; SERVER: 10.0.2.48#53(10.0.2.48) (UDP)
;; WHEN: Mon Dec 11 11:41:39 UTC 2023
;; MSG SIZE rcvd: 114
ubuntu@ip-10-0-1-49:~$
```

As evidenced by these outputs, the Backup Server also responds to DNS queries, confirming that the zone transfer was successful.

Gitlab Server

Add the GitLab package repository and install the package:

```
curl
https://packages.gitlab.com/install/repositories/gitlab/gitlab
-ce/script.deb.sh | sudo bash
sudo apt-get install gitlab-ce
Locate to
sudo nano /etc/gitlab/gitlab.rb
```

And edit the file at the section where you are prompted to enter your URL (Your GitLab domain)

```
ubuntu@ip-10-0-1-49: ~
                                                                            GNU nano 6.2
                                 /etc/gitlab/gitlab.rb
##! or connecting to third party services.
#! In those instances, we endeavour to provide an example configuration.
#! URL on which GitLab will be reachable.
#! For more details on configuring external url see:
##! https://docs.gitlab.com/omnibus/settings/configuration.html#configuring-the-ex
#! Note: During installation/upgrades, the value of the environment variable
#! EXTERNAL URL will be used to populate/replace this value.
#! On AWS EC2 instances, we also attempt to fetch the public hostname/IP
#! address from AWS. For more details, see:
#! https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/instancedata-data-retrieva>
external_url 'http://git.team01.at'
## Roles for multi-instance GitLab
   The default is to have no roles enabled, which results in GitLab running as an
```

Now GitLab is installed, and the interface should already be visible at your public IP for the GitLab Server.

To change the password for the root user, enabling login access, follow these steps:

Open the GitLab Rails Console

```
sudo gitlab-rails console -e production
Change the root Password

user = User.find_by(username: 'root')

user.password = 'new_password'

user.password_confirmation = 'new_password'

user.save!

Exit the Rails Console
```

exit

Gitlab Runner

First, run server Updates:

```
sudo apt update
```

Install Repository & GitLab Runner

```
curl -L
https://packages.gitlab.com/install/repositories/runner/gitlab
-runner/script.deb.sh | sudo bash
sudo apt-get install gitlab-runner
```

Register the GitLab Runner. You will be asked for the Domain of your External URL, your GitRunner Token and optional Tags.

```
sudo gitlab-runner register
```

If everything went well, you will see your Configuration of the Runner in the **config.toml** File.

sudo nano /etc/gitlab-runner/config.toml

```
    ubuntu@ip-10-0-2-70: ~

GNU nano 6.2
                             /etc/gitlab-runner/config.toml
oncurrent = 1
heck_interval = 0
shutdown timeout = 0
session server]
 session timeout = 1800
[runners]]
 name = "ip-10-0-2-70 test"
 url = "http://git.team01.at/"
 id = 1
 token = "e5H--YUYj4Eu RK C D1"
 token_obtained_at = 2023-12-10T11:39:28Z
 token_expires_at = 0001-01-01T00:00:00Z
 executor = "docker"
 [runners.cache]
   MaxUploadedArchiveSize = 0
 [runners.docker]
   tls verify = false
   image = "alpine:latest"
   privileged = false
   disable_entrypoint_overwrite = false
   oom kill disable = false
                                 [ Read 27 lines ]
             ^O Write Out ^W
                             Where Is
               Read File
```

Creating a Repository on GitLab Server

```
Go to your GitLab Server in your Browser and log in.
Navigate to "Projects" and click "New project" or "Create project".
Enter the project name (e.g., "video").
Set Visibility Level to "Private".
Click "Create project".
```

Setting Up Your Local Repository:

Create a new directory and initialize it as a Git repository:

```
mkdir video
cd video
git init
```

Rename the default branch to "video" (optional):

```
git branch -m video
```

Add the remote GitLab repository:

```
git remote add origin http://git.team01.at/root/video.git
```

Create a new file, stage, and commit it:

```
echo "Hello World" > hello.txt
git add hello.txt
git commit -m "Add video hello.txt"
```

Push the commit to the GitLab repository:

```
git push -u origin video
```

Cloning the repository

To clone a repository in a folder:

```
git clone http://git.team01.at/root/video.git <name of folder>
```