

Terraform

[illegible]

```
root@ip-172-31-43-163:~  
=====
```

Package	Arch	Version	Repository	Size
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```

Installing:

terraform	x86_64	1.9.6-1	hashicorp	27 M
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Installing dependencies:

git	x86_64	2.40.1-1.amzn2023.0.3	amazonlinux	54 k
git-core	x86_64	2.40.1-1.amzn2023.0.3	amazonlinux	4.3 M
git-core-doc	noarch	2.40.1-1.amzn2023.0.3	amazonlinux	2.6 M
perl-Error	noarch	1:0.17029-5.amzn2023.0.2	amazonlinux	41 k
perl-File-Find				
	noarch	1.37-477.amzn2023.0.6	amazonlinux	26 k
perl-Git	noarch	2.40.1-1.amzn2023.0.3	amazonlinux	42 k
perl-TermReadKey				
	x86_64	2.38-9.amzn2023.0.2	amazonlinux	36 k
perl-lib	x86_64	0.65-477.amzn2023.0.6	amazonlinux	15 k

Transaction Summary

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Install 9 Packages

Total download size: 34 M
Installed size: 119 M
Downloading Packages:

(1/9): git-2.40.1-1.amzn2023.0.3	1.1 MB/s	54 kB	00:00
(2/9): perl-Error-0.17029-5.amzn2023.0.2	2.1 MB/s	41 kB	00:00
(3/9): perl-File-Find-1.37-477.amzn2023.0.6	995 kB/s	26 kB	00:00
(4/9): git-core-2.40.1-1.amzn2023.0.3	33 MB/s	4.3 MB	00:00
(5/9): perl-Git-2.40.1-1.amzn2023.0.3	1.0 MB/s	42 kB	00:00
(6/9): git-core-doc-2.40.1-1.amzn2023.0.3	16 MB/s	2.6 MB	00:00
(7/9): perl-TermReadKey-2.38-9.amzn2023.0.2	1.1 MB/s	36 kB	00:00
(8/9): perl-lib-0.65-477.amzn2023.0.6	630 kB/s	15 kB	00:00
(9/9): terraform-1.9.6-1.x86_64	65 MB/s	27 MB	00:00

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root@ip-172-31-43-163:~  
git-2.40.1-1.amzn2023.0.3.x86_64  
git-core-2.40.1-1.amzn2023.0.3.x86_64  
git-core-doc-2.40.1-1.amzn2023.0.3.noarch  
perl-Error-1:0.17029-5.amzn2023.0.2.noarch  
perl-File-Find-1.37-477.amzn2023.0.6.noarch  
perl-Git-2.40.1-1.amzn2023.0.3.noarch  
perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64  
perl-lib-0.65-477.amzn2023.0.6.x86_64  
terraform-1.9.6-1.x86_64  
  
Complete!  
[root@ip-172-31-43-163 ~]# terraform -v  
Terraform v1.9.6  
on linux_amd64  
[root@ip-172-31-43-163 ~]# curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"  
% Total % Received % Xferd Average Speed Time Time Time Current  
Dload Upload Total Spent Left Speed  
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
2.9M 30 19.2M 0 0 10.4M 0 0:00:06 0:00:01 52 62.9M 52 33.1M 0 0 11.7M 0 0:00:05 0:00:02 69 62.9M  
69 43.6M 0 0 11.3M 0 0:00:05 0:00:03 91 62.9M 91 57.8M 0 0 12.0M 0 0:00:05 0:00:04 100 62.9M 100  
62.9M 0 0 11.9M 0 0:00:05 0:00:05 --:--:-- 13.0M  
[root@ip-172-31-43-163 ~]# unzip awscliv2.zip  
Archive: awscliv2.zip  
creating: aws/  
creating: aws/dist/  
inflating: aws/THIRD_PARTY_LICENSES  
inflating: aws/install  
inflating: aws/README.md  
creating: aws/dist/awscli/  
creating: aws/dist/cryptography/  
creating: aws/dist/docutils/  
creating: aws/dist/lib-dynload/  
inflating: aws/dist/aws
```

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root@ip-172-31-43-163:~  
inflating: aws/dist/docutils/parsers/rst/include/mmlextra-wide.txt  
inflating: aws/dist/docutils/parsers/rst/include/s5defs.txt  
inflating: aws/dist/docutils/parsers/rst/include/isolat1.txt  
inflating: aws/dist/docutils/parsers/rst/include/isogrsk4.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsa.txt  
inflating: aws/dist/docutils/parsers/rst/include/isopub.txt  
inflating: aws/dist/docutils/parsers/rst/include/isogrsk2.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsr.txt  
inflating: aws/dist/docutils/parsers/rst/include/isocyr2.txt  
inflating: aws/dist/docutils/parsers/rst/include/isocyr1.txt  
inflating: aws/dist/docutils/parsers/rst/include/xhtml1-special.txt  
inflating: aws/dist/docutils/parsers/rst/include/isobox.txt  
inflating: aws/dist/docutils/parsers/rst/include/xhtml1-symbol.txt  
inflating: aws/dist/docutils/parsers/rst/include/isomscr-wide.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsc.txt  
inflating: aws/dist/docutils/parsers/rst/include/isogrsk4-wide.txt  
[root@ip-172-31-43-163 ~]# ./aws/install  
You can now run: /usr/local/bin/aws --version  
[root@ip-172-31-43-163 ~]# mkdir /project  
[root@ip-172-31-43-163 ~]# cd /project  
[root@ip-172-31-43-163 project]# cd  
[root@ip-172-31-43-163 ~]# aws configure  
AWS Access Key ID [None]: AKIAWN26KBRN45QHILNM  
AWS Secret Access Key [None]: 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  
Default region name [None]: ap-northeast-1  
Default output format [None]:  
[root@ip-172-31-43-163 ~]#
```

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root@ip-172-31-43-163:/proje  ×  +  ∨
provider "aws" {
  region      = "ap-northeast-1"
  access_key  = "AKIAWN26KBRN45QHILNH"
  secret_key  = "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"
}

-- INSERT --
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root@ip-172-31-43-163:/project  +  ~  
inflatng: aws/dist/docutils/parsers/rst/include/s5defs.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isolat1.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isogrkl4.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isoamsa.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isopub.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isogrkl2.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isoamsr.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isocyr2.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isocyr1.txt  
inflatng: aws/dist/docutils/parsers/rst/include/xhtml1-special.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isobox.txt  
inflatng: aws/dist/docutils/parsers/rst/include/xhtml1-symbol.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isomscr-wide.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isoamsc.txt  
inflatng: aws/dist/docutils/parsers/rst/include/isogrkl4-wide.txt  
[root@ip-172-31-43-163 ~]# ./aws/install  
You can now run: /usr/local/bin/aws --version  
[root@ip-172-31-43-163 ~]# mkdir /project  
[root@ip-172-31-43-163 ~]# cd /project  
[root@ip-172-31-43-163 project]# cd  
[root@ip-172-31-43-163 ~]# aws configure  
AWS Access Key ID [None]: AKIAWN26KBRN45QHLLNM  
AWS Secret Access Key [None]: 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  
Default region name [None]: ap-northeast-1  
Default output format [None]:  
[root@ip-172-31-43-163 ~]# cd /project  
[root@ip-172-31-43-163 project]# vim provider.tf  
[root@ip-172-31-43-163 project]# |
```

```

inflating: aws/dist/docutils/parsers/rst/include/latex1-symbol
.txt
inflating: aws/dist/docutils/parsers/rst/include/isomscr-wide.
txt
inflating: aws/dist/docutils/parsers/rst/include/isoamsc.txt
inflating: aws/dist/docutils/parsers/rst/include/isogr4-wide.
txt
[root@ip-172-31-43-163 ~]# ./aws/install
You can now run: /usr/local/bin/aws --version
[root@ip-172-31-43-163 ~]# mkdir /project
[root@ip-172-31-43-163 ~]# cd /project
[root@ip-172-31-43-163 project]# cd
[root@ip-172-31-43-163 ~]# aws configure
AWS Access Key ID [None]: AKIAWN26KBRN45QHLLNM
AWS Secret Access Key [None]: wUV302wPV9Ka3DVF2/Zs/fDrFP4ffnyEOe
/n6Uwa
Default region name [None]: ap-northeast-1
Default output format [None]:
[root@ip-172-31-43-163 ~]# cd /project
[root@ip-172-31-43-163 project]# vim provider.tf
[root@ip-172-31-43-163 project]# yum install tree -y
Last metadata expiration check: 0:10:01 ago on Fri Sep 27 04:02:
53 2024.
Dependencies resolved.
=====
Package Arch          Version                Repository              Size
=====
Installing:
tree      x86_64      1.8.0-6.amzn2023.0.2  amazonlinux             56 k
Transaction Summary
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root@ip-172-31-43-163:/proje × + ∨

Running scriptlet: tree-1.8.0-6.amzn2023.0.2.x86_64      1/1
Verifying       : tree-1.8.0-6.amzn2023.0.2.x86_64      1/1

Installed:
tree-1.8.0-6.amzn2023.0.2.x86_64

Complete!
[root@ip-172-31-43-163 project]# tree -a
.
├── provider.tf

0 directories, 1 file
[root@ip-172-31-43-163 project]# terraform init
Initializing the backend...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.69.0...
- Installed hashicorp/aws v5.69.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
[root@ip-172-31-43-163 project]# |
```

```
root@ip-172-31-43-163:/proje × + ∨

provider "aws" {
  region      = "ap-northeast-1"
  access_key  = "AKIAWN26KBRN45QHLINM"
  secret_key  = "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"
}
resource "aws_instance" "this" {
  ami          = "ami-06f73fc34ddfd65c2"
  instance_type = "t2.micro"
  key_name     = "seoul-server"
}

~
~
~
~
```

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

LTIMindtree Favorites Folder

aws Services Search [Alt+S] Ohio SrushtiKhandade

Instances (1/4) Info Last updated less than a minute ago Connect Instance state Actions Launch Instances

Find Instance by attribute or tag (case-sensitive) All states < 1 >

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	terraform-1	i-0953ec04061bb0f6f	Terminated	t2.micro	-	View alarms +
<input checked="" type="checkbox"/>	new-terraf...	i-095bf89981021dd7a	Running	t2.micro	Initializing	View alarms +

i-095bf89981021dd7a (new-terraform)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-095bf89981021dd7a (new-terraform)	18.118.37.67 open address	172.31.0.214
IPv6 address	Instance state	Public IPv4 DNS

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Volumes:

LTIMindtree Favorites Folder

aws Services Search [Alt+S] Ohio SrushtiKhandade

Volumes (1/5) Info Create volume

Search < 1 >

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID
<input type="checkbox"/>	new-vol	vol-01977959efe9ce459	gp2	5 GiB	100	-	-
<input type="checkbox"/>	mum-vol	vol-0747f74906aca96e3	gp2	5 GiB	100	-	-
<input type="checkbox"/>	HelloWorld	vol-0399fe6ec26295734	gp2	2 GiB	100	-	-
<input type="checkbox"/>	-	vol-095dcab5cf947fc9d	gp3	8 GiB	3000	125	snap-0e4dc2f...
<input checked="" type="checkbox"/>	HelloWorld	vol-0f8236e749d023858	gp2	3 GiB	100	-	-

Volume ID: vol-0f8236e749d023858 (HelloWorld)

```
root@ip-172-31-43-163:/proje x + v
resource "aws_ebs_volume" "example" {
  availability_zone = "us-east-2a"
  size             = 3

  tags = {
    Name = "HelloWorld"
  }
}
```