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**By**

[**Josphat Mutai**](https://computingforgeeks.com/author/mutai-josphat/)

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Q: How can I **install Terraform on Windows 10**?, How can I **install Terraform on Windows Server 2019**?. This guide will walk you through the steps to install Terraform on Windows 10 and Windows Server 2019. Terraform is a cloud-agnostic Infrastructure automation tool used to manage cloud and on-premise resources in code. Terraform can build, change, and version infrastructure deployed on popular service providers.

With Terraform you can manage Compute, Networking, DNS, Database resources and many others using simple Declarative Programming Language. See the complete list of [Terraform Providers](https://www.terraform.io/docs/providers/).

Install Terraform on Windows Desktop / Windows Server

In this guide, we will use Scoop command line installer for Windows to setup terraform on Windows. Before you proceed, you’ll need scoop installed on your Windows machine, you can use our guide below.

[How to install Applications from Windows command line](https://computingforgeeks.com/nstall-applications-from-command-line-windows/)

Once Scoop is installed, use it to install terraform.

PS C:\Users\Administrator> **scoop install terraform which vim touch**  
 WARN Scoop uses 'aria2c' for multi-connection downloads.  
 WARN Should it cause issues, run 'scoop config aria2-enabled false' to disable it.  
 Installing 'terraform' (0.11.12) [64bit]  
 Starting download with aria2 …  
 Download: [#3633c5 96KiB/20MiB(0%) CN:4 DL:245KiB ETA:1m24s]  
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.....

The terraform exe file will be located inside ~/scoop/ directory.

PS C:\Users\Administrator> **which terraform**  
 C:\Users\Administrator\scoop\shims\terraform.EXE

Configure Terraform on Windows Desktop / Windows Server

Now that terraform is installed, let’s create a test project.

> **mkdir projects**  
 Directory: C:\Users\Administrator  
 Mode LastWriteTime Length Name  
 ---- ------------- ------ ----  
 d----- 3/9/2019 1:57 AM projects  
 PS C:\Users\Administrator> mkdir projects

Create terraform folder inside projects directory.

PS C:\Users\Administrator> **cd .\projects\**  
 PS C:\Users\Administrator\projects> **mkdir terraform**  
 Directory: C:\Users\Administrator\projects  
 Mode LastWriteTime Length Name  
 ---- ------------- ------ ----  
 d----- 3/9/2019 1:58 AM terraform  
 PS C:\Users\Administrator\projects> **cd .\terraform\**

Create Terraform main configuration file.

touch main.tf

I’m doing a Test with AWS Provider but you can use [other Providers](https://www.terraform.io/docs/providers/) for your projects. My terraform configuration provider section is as below

PS C:\Users\Administrator\projects\terraform> **cat .\main.tf**  
# Provider  
 provider "aws" {  
 access\_key = ""  
 secret\_key = ""  
 region = "us-west-1"  
 }

Paste your AWS Access Key and Secret Key inside the access\_key and secret\_key sections respectively. When done, run terraform init to initialize a Terraform working directory.

PS C:\Users\Administrator\projects\terraform> **terraform init**  
 Initializing provider plugins…  
 Checking for available provider plugins on https://releases.hashicorp.com…  
 Downloading plugin for provider "aws" (2.1.0)…   
 The following providers do not have any version constraints in configuration,  
 so the latest version was installed.  
 To prevent automatic upgrades to new major versions that may contain breaking  
 changes, it is recommended to add version = "…" constraints to the  
 corresponding provider blocks in configuration, with the constraint strings  
 suggested below.  
 provider.aws: version = "~> 2.1"   
 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.

Terraform will automatically download provider configured to .terraform directory.

PS C:\Users\Administrator\projects\terraform> **ls**  
Directory: C:\Users\Administrator\projects\terraform  
Mode LastWriteTime Length Name  
---- ------------- ------ ----  
d----- 3/9/2019 2:06 AM .terraform  
-a---- 3/9/2019 2:04 AM 42358 .main.tf.un~  
-a---- 3/9/2019 2:04 AM 99 main.tf  
-a---- 3/9/2019 2:03 AM 59 main.tf~

Inside there is another folder which store plugins downloaded by Terraform.

Let’s now add resource section to create AWS VPC and Subnet resources by editing the main.tf file.

# Provider

provider "aws" {

access\_key = ""

secret\_key = ""

region = ""

}

# Retrieve the AZ where we want to create network resources

data "aws\_availability\_zones" "available" {}

# VPC Resource

resource "aws\_vpc" "main" {

cidr\_block = "10.11.0.0/16"

enable\_dns\_support = true

enable\_dns\_hostnames = true

tags {

Name = "Test-VPC"

}

tags {

Environment = "Test"

}

}

# AWS subnet resource

resource "aws\_subnet" "test" {

vpc\_id = "${aws\_vpc.main.id}"

cidr\_block = "10.11.1.0/24"

availability\_zone = "${data.aws\_availability\_zones.available.names[0]}"

map\_public\_ip\_on\_launch = "false"

tags {

Name = "Test\_subnet1"

}

}

Save the file after adding resource definitions and setting AWS variables then generate and show an execution plan.

PS C:\Users\Administrator\projects\terraform> terraform plan

Refreshing Terraform state in-memory prior to plan...

The refreshed state will be used to calculate this plan, but will not be

persisted to local or remote state storage.

data.aws\_availability\_zones.available: Refreshing state...

------------------------------------------------------------------------

An execution plan has been generated and is shown below.

Resource actions are indicated with the following symbols:

+ create

Terraform will perform the following actions:

+ aws\_subnet.test

id: <computed>

arn: <computed>

assign\_ipv6\_address\_on\_creation: "false"

availability\_zone: "us-east-1a"

availability\_zone\_id: <computed>

cidr\_block: "10.11.1.0/24"

ipv6\_cidr\_block: <computed>

ipv6\_cidr\_block\_association\_id: <computed>

map\_public\_ip\_on\_launch: "false"

owner\_id: <computed>

tags.%: "1"

tags.Name: "Test\_subnet1"

vpc\_id: "${aws\_vpc.main.id}"

+ aws\_vpc.main

id: <computed>

arn: <computed>

assign\_generated\_ipv6\_cidr\_block: "false"

cidr\_block: "10.11.0.0/16"

default\_network\_acl\_id: <computed>

default\_route\_table\_id: <computed>

default\_security\_group\_id: <computed>

dhcp\_options\_id: <computed>

enable\_classiclink: <computed>

enable\_classiclink\_dns\_support: <computed>

enable\_dns\_hostnames: "true"

enable\_dns\_support: "true"

instance\_tenancy: "default"

ipv6\_association\_id: <computed>

ipv6\_cidr\_block: <computed>

main\_route\_table\_id: <computed>

owner\_id: <computed>

tags.%: "2"

tags.Environment: "Test"

tags.Name: "Test-VPC"

Plan: 2 to add, 0 to change, 0 to destroy.

------------------------------------------------------------------------

Note: You didn't specify an "-out" parameter to save this plan, so Terraform

can't guarantee that exactly these actions will be performed if

"terraform apply" is subsequently run.

PS C:\Users\Administrator\projects\terraform>

Finally build your Infrastructure with Terraform using terraform apply.

PS C:\Users\Administrator\projects\terraform> terraform apply

data.aws\_availability\_zones.available: Refreshing state...

An execution plan has been generated and is shown below.

Resource actions are indicated with the following symbols:

+ create

Terraform will perform the following actions:

+ aws\_subnet.test

id: <computed>

arn: <computed>

assign\_ipv6\_address\_on\_creation: "false"

availability\_zone: "us-east-1a"

availability\_zone\_id: <computed>

cidr\_block: "10.11.1.0/24"

ipv6\_cidr\_block: <computed>

ipv6\_cidr\_block\_association\_id: <computed>

map\_public\_ip\_on\_launch: "false"

owner\_id: <computed>

tags.%: "1"

tags.Name: "Test\_subnet1"

vpc\_id: "${aws\_vpc.main.id}"

...........................

Confirm changes to be made and type “**yes**” to initiate modifications.

Plan: **2 to add, 0 to change, 0 to destroy**.  
Do you want to perform these actions?  
 Terraform will perform the actions described above.  
 Only 'yes' will be accepted to approve.  
Enter a value: **yes**

A successful terraform run should print success message at the end.

Terraform state is saved to .\terraform.tfstate but the backend can be changed.

You can confirm Infrastructure changes from AWS console.

Destroying Terraform Infrastructure

We have confirmed that our Terraform installation on Windows is working as expected. destroy Terraform-managed infrastructure by running terraform destroy command.

PS C:\Users\Administrator\projects\terraform> terraform destroy

aws\_vpc.main: Refreshing state... (ID: vpc-0e94a7d72c02dab2b)

data.aws\_availability\_zones.available: Refreshing state...

aws\_subnet.test: Refreshing state... (ID: subnet-0ad06c2e86542ddc1)

An execution plan has been generated and is shown below.

Resource actions are indicated with the following symbols:

- destroy

Terraform will perform the following actions:

- aws\_subnet.test

- aws\_vpc.main

Plan: 0 to add, 0 to change, 2 to destroy.

Do you really want to destroy all resources?

Terraform will destroy all your managed infrastructure, as shown above.

There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

If you don’t want confirmation prompt, use:

terraform destroy -auto-approve

Login to AWS console and affirm resources deletion.

Installing terraform on other systems:

[How to Install Terraform on Fedora](https://computingforgeeks.com/how-to-install-terraform-on-fedora/)

[How to Install Terraform on Ubuntu / CentOS](https://computingforgeeks.com/how-to-install-terraform-on-ubuntu-centos-7/)

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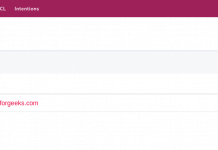
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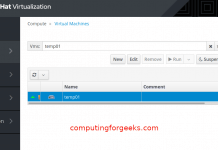
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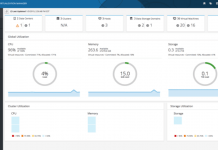
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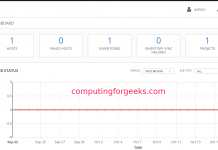
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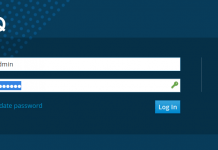
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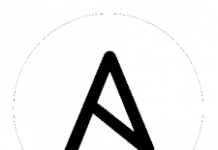
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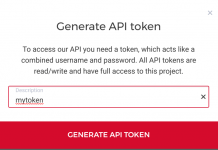
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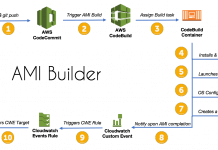
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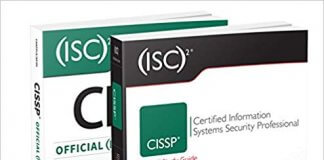
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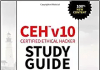
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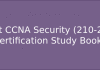
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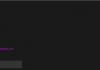
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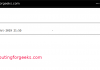
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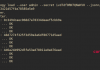
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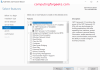
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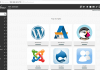
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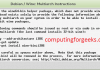
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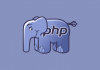
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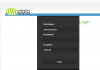
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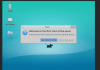
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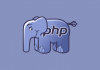
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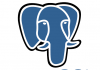
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Experienced General Manager , Chief Information Officer , Program/Project Manager and Entrepreneur adept at taking businesses and solutions from conception to completion while entrenching continuous improvement practices for the business process they create , skilled in developing client relationship with experience in the area of user and customer relationship management , supply chain optimization , Enterprise Resource planning and integration with a demonstrated history of working in the information technology and services industry. Skilled in Oracle Database, Databases, Software Documentation, Solution Architecture, and Testing. Seeks leadership position in energy, utilities institution.

Astute professional with proven track record with capability of making immediate impact with over 25 years’ experience. Keen to serve the Europe and African sub-region by promoting technological, economic and commercial strategies through channels that deploy world class practices to influence efficiency and impact performance. I have worked in Oil & Gas overseeing a budget of 80 Million BPS infrastructure upgrade in Infrastructure, Applications, Communications area were contracted by PWC, My major achievement include the deployment of systems and branch expansion from to 52 branches for one of the top banks in Nigeria West Africa, Personally supervising the ICT Infrastructure / Security/ERP/ E commerce solution and Hospital Expansion of the top eye hospital in Africa, Supervision of the service delivery and service support for 14 offices for an African Airline, Re-engineering of the business process for some the financial and Oil & Gas institutions in Nigeria (West Africa), Deployment of Office Infrastructure and Enterprise Application for a major manufacturing business In Nigeria (West Africa), I also was a consultant to Price Water House Cooper in London United Kingdom, PWC(Nigeria).

My other achievements’ has also been to provide business process re-engineering and Infrastructure services to over sixteen Small Medium Enterprise companies with annual turnover ranging from 5 Million to over 40 Million BPS which involved the computerization of these companies operations, financial and human capital services using enterprise solutions including SAGE applications to automate the financial, inventory, assets and human capital. I am SAP, MS Dynamics and SAGE certified and I Hope to hear positively from you soon.

