# HashiCorp Certified: Terraform Associate



### Hands-On Labs

## **Lab: Terraform Auto Complete**

One of the features of the Terraform CLI is that you can install a tab-completion if you are using bash or zsh as your command shell. This provides you with tab-completion support for all command names and *some* command arguments.

- Task 1: Install Terraform Auto Complete
- Task 2: Test Auto Complete via CLI
- Task 3: Install VSCode Extension for Auto Completion

### Task 1: Install Terraform Auto Complete

```
$ terraform -install-auto-complete
```

### Task 2: Test Auto Complete via CLI

In your terminal, type terraform and hit the tab key. Notice how auto complete has provided you a list of all the sub-commands available for use:

\$ terraform					
apply	destroy	fmt	get	import	
login	output	providers	refresh	state	
test	validate	workspace			
console	env	force-unlock	graph	init	
logout	plan	push	show	taint	
untaint	version				

Next, type terraform state and hit the tab key (note the space after state). Notice how auto complete has provided with additional options available for the terraform state command:

```
$ terraform state
list mv pull push replace-provider rm show
```

### Task 3: Install VSCode Extension for Auto Completion

In VSCode, select "Extensions" from the left navigation panel. Search for terraform. Install the HashiCorp Terraform extension verified from HashiCorp.



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### Task 4: Use Auto Completion in VSCode

In your main.tf file, scroll to the bottom and add a few new lines. Type in resource (or just part of the word) and hit the tab key. See how the extension creates a new resource block for you and suggests resource types as you start typing. Type in aws\_ins and you can tab complete on aws\_instance to specify a new EC2 instance resource.

```
resource "aws_ins" "name" {
164
                   aws_inspector_assessment_target

    aws_instance

                                                    hashicorp/aws 3.64.2

    aws_iam_instance_profile

                   aws_iam_account_password_policy

    aws_iam_account_alias

    aws_iam_user_login_profile

                   aws_imagebuilder_infrastructure_configuration
                  ⊗ aws_iam_user_policy_attachment
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             OUTPUT
                   aws_imagebuilder_distribution_configuration
```

Figure 1: Auto Complete VSCode

### **Troubleshooting**

If you get an error message that says Error executing CLI: Did not find any shells to install you might need to update, or create, your ~/.zshrc or ~/.profile file to enable auto-complete. If you are using zsh, which is now the default on MacOS, you'll only need ~/.zshrc. If you're using bash, you'll just need ~/.profile. If this file does not yet exist, you can run the command:

```
# for zsh
touch ~/.zshrc

# for bash
touch ~/.profile
```

Try to install Terraform Auto Complete again.

If you get an error message that says complete:13: command not found: compdef, then you should add the following to the file mentioned above:



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```
autoload -Uz compinit && compinit
```

With that now added, your ~/.zshrc file should now look similar to this:

```
autoload -U +X bashcompinit && bashcompinit autoload -Uz compinit && compinit complete -o nospace -C /usr/local/bin/terraform terraform
```

You can restart your session or simply run exec zsh to reload the configuration.

