



Terraform: Use the Terraform CLI

Terraform : Deployment Automation

- **Section 4 : Use the Terraform CLI**
 - Use `terraform fmt` to format code
 - Use `terraform taint`
 - Use `terraform import`
 - Use `terraform workspace`
 - Use `terraform state`
 - Enable verbose logging

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- Use terraform fmt :
- `terraform fmt` command is used to rewrite Terraform configuration files to a canonical format and style.
- Use terraform taint :
- The `terraform taint` command manually marks a Terraform-managed resource as tainted, forcing it to be destroyed and recreated on the next apply.
- This command will not modify infrastructure, but does modify the `state file` in order to mark a resource as **tainted**.
- Usage: `terraform taint address`

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- Use terraform import :
- `terraform import` command is used to import existing resources into Terraform.
- Example :

```
terraform import aws_instance.test_ins i-1234
```

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- Terraform Workspace :
- Terraform persistent data stored in backend which belongs to Workspace.
- Initially Backend have only one workspace “default”.
- Create New WorkSpace.

```
terraform workspace new test  
Created and switched to workspace “test”!
```

- Named workspaces allow conveniently switching between multiple instances of a single configuration.
- A common use for multiple workspaces is to create a **parallel, distinct copy** of a set of infrastructure in order to test a set of changes before modifying the main production infrastructure.

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- **Debugging Terraform :**
- Terraform has detailed logs which can be enabled by setting the **TF_LOG** environment variable to any value.
- User can set **TF_LOG** to one of the log levels **TRACE**, **DEBUG**, **INFO**, **WARN** or **ERROR** to change the verbosity of the logs.
- **TRACE** is the most verbose and it is the default if **TF_LOG** is set to something other than a log level name.
- To persist logged output you can set **TF_LOG_PATH** in order to force the log to always be appended to a specific file when logging is enabled.

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- Set Terraform Logs:
- `export TF_LOG=TRACE`
- To disable, either unset it or set it to empty.
- `export TF_LOG=`
- Set TF log path -
- `export TF_LOG_PATH=./terraform.log`

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, completing the cursive phrase 'Thank you!' on a white background. The hand is positioned on the right side of the frame, with the index and thumb fingers visible, gripping the marker. The marker's tip is just finishing the exclamation mark. The cursive script is fluid and elegant, with the 'T' in 'Thank' being particularly large and stylized.

See you in next lecture ...