

What are we going to see in this session?

Let's do some admin activity with AWS

- Introduction to Conditionals
- Built-in-functions
- Count
- for_each expression





Introduction to conditionals

- Conditionals can be used in many cases like
 - Use simple math functions
 - Refer to other variables
 - ✓ Use conditional like (if-else)
 - Using conditional in count
- We were using conditionals in many cases so far like
 - Refer the variables from different file.
 - Provide the path information's to fetch the modules
 - Output the attributes.
 - Using proper resource types.
 - Generating data source and passing to resource block

These are all some common inbuild conditionals done by terraform itself for you.

Built-In Functions

- There are some built-in functions which can be used in terraform resources.
- Some common built-in functions are.
 - file(filename) used to read the content of file, which we have used in many cases before. [To read .pem file]
 - ✓ length helps to determine the length of given list.
 - element(list, index) Returns the single element from a list at the given index.
 - ✓ lookup used to lookup 2 values provided.
 - ✓ index(list, value) Used to find the element index for the given value.

You can just go through this link to know more <u>Functions</u>



Let's see how to make use of count efficiently.

- Example 1:
 - Let's try creating list of users using count.
 - We may combine count with terraform built in functions such as [Length & Element] to achieve this.

Code: git-repo [file path: Terraform/Codes/E19_count_iam]

- Example 2 :
 - Let's try creating list of EC2 instance with different machine names using count increment.

Code : git-repo [file path : Terraform/Codes/E20_count_ec2_increment]

- Example 3:
 - ✓ Let's try creating list of EC2 instance by defining the tags in vars file.

Code: git-repo [file path: Terraform/Codes/E21_count_ec2_element]

for_each expression

- For_each expression allows you to loop over lists, sets and maps to create either
- (a) multiple copies of an entire resource (b) multiple copies of inline block with a resource.
- Example : Create uses using for_each
 - Code: git-repo [file path: Terraform/Codes/E19_count_iam]
 - ✓ Note the use of "toset" is to convert the "var.users" list into a set, because "for_each" only supports sets and maps when used on a resource.
 - ✓ When "for_each" loops over this set, it will make each username available in "each.value"
- (b) multiple copies of inline block with a resource.
 - Code : git-repo [file path : Terraform/Codes/E19_count_iam]



End of this topic!

Any questions?

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