



Terraform: Built-in Functions

Terraform : Deployment Automation

- User can use the Built in Functions in Terraform.
- Functions are called with syntax `func_name(arg1, arg2,....)`
 - For example `file("level-up.key")` is used to read the Public Key.
- We will discuss some commonly used functions.

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- **base64encode(string)** - Returns a base64-encoded representation of the given string.
- **base64decode(string)** - Given a base64-encoded string, decodes it and returns the original string.
- **chomp(string)** - Removes trailing newlines from the given string.
- **chunklist(list, size)** - Returns the list items chunked by size.

Examples:

- `chunklist(aws_subnet.foo.*.id, 1)`: will outputs `[["id1"], ["id2"], ["id3"]]`
- `chunklist(var.list_of_strings, 2)`: will outputs `[["id1", "id2"], ["id3", "id4"], ["id5"]]`

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- **coalesce(string1, string2, ...)** - Returns the first non-empty value from the given arguments. At least two arguments must be provided.
- **coalescelist(list1, list2, ...)** - Returns the first non-empty list from the given arguments. At least two arguments must be provided.
- **compact(list)** - Removes empty string elements from a list. This can be useful in some cases, for example when passing joined lists as module variables or when parsing module outputs.
- **concat(list1, list2, ...)** - Combines two or more lists into a single list.
- **contains(list, element)** - Returns true if a list contains the given element and returns false otherwise.

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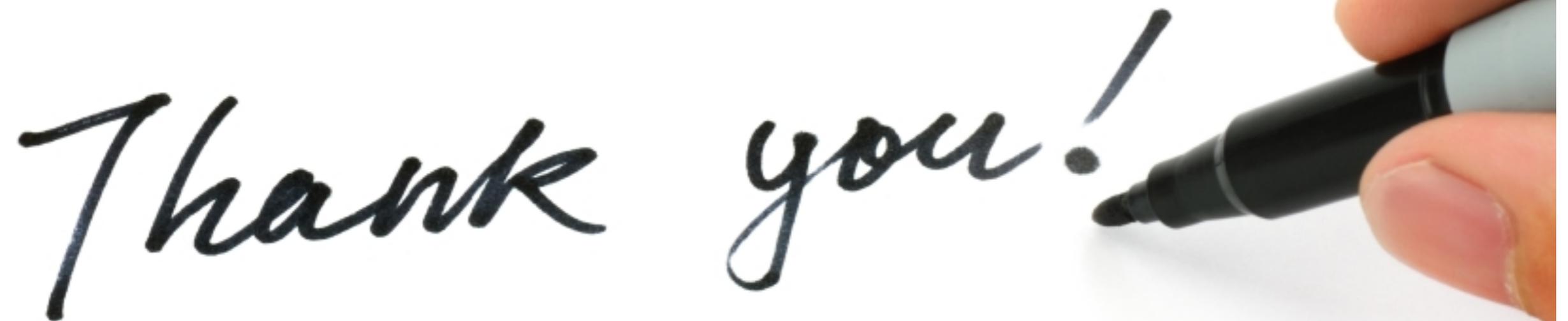
- **element(list, index)** - Returns a single element from a list at the given index.
- **file(path)** - Reads the contents of a file into the string.
- **length(list)** - Returns the number of members in a given list or map, or the number of characters in a given string.
- **lookup(map, key, [default])** - Performs a dynamic lookup into a **map** variable. The map parameter should be another variable, such as **var.amis**. If key does not exist in map, the interpolation will fail unless you specify a third argument, **default**, which should be a string value to return if no key is found in map.

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- **timestamp()** - Returns a UTC timestamp string in RFC 3339 format.
- **trimspace(string)** - Returns a copy of the string with all leading and trailing white spaces removed.
- **uuid()** - Returns a random UUID string. This string will change with every invocation of the function.

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the fingers gripping the marker. The text is written in a dark, fluid cursive style. The background is plain white.

See you in next lecture ...