TERRAFORM

John terratorm?

de couate infrastructure in multiple provider using terratorm. like AMS, Azure. etc.

Terratorn

Ansible.

* It is IAC (intrastru * You can define configuration . cture as code) toof. of server as a coole.

* Mere we can coeste

* Rus Maintain the State of resources

* We can directly coucle * for delete we need to
or delete two file. coucle seperate file egain.

* It is infrastruction * It is configuration as code took. management took.

* Texacorm installation:

Go to > terratorm. io/downloads.html.

download & it.

entrait zip fele and set environmental path.

Go to and one of.

» terroform -- help.

```
Note: Terraform file: extension is . - . tf.
        i.e, Hello.tf
  -> Terraform file must stoot with
        block "lable 1" lable 2... {
             identifiers @= expression
The wind was In our role A. works in the Jank
 -> output "hello1" {
          value = "Hello world"
                     CAR MOTHER TREE
   To execute it.
     Go and & our >> terratorm plan
outputs,
        hello1 = Hello world.
-> You cour terratorm in Json fite.
-> Multiple block in single terratorn. file.
      Output "hello1" {
          value = "Hello"
output hello 2 " }
          value = "woold"
```

-> Multiple terratorn file in same directory.

→ Vaociables:-

Ex1º Voouable username { }

output printname {

value = var. username

}

enter a value: Appu

outputs:

printrame = "Appu"

2) value = "Hello, \$ { var. username}"

Off: Enter a value : Appu

printname = "Hillo, Appu"

>> Pass variable value from command. :>> terratorm plan -var "username = Appy"

olp:printname = "Hello, Appu"

Default

remaisse variable form ?

Variable username {

default = "plorid"
}

>> terractorim plan

olp: printname = "Hello, world"

>> trerratorm plan -vaoi "username = Appli"

olp : printname = "Hello, Appu"

-> Multiple variable : -

output printname (

value = "Hello, \$ {var. username},

Your age is \$ {var.age}"

>> terrform plan -var "username = Appu"
-var " age = 23"
ofp:- printname = Hello, Appu, Your age is 23.

```
+ nooyable file s
   voscoble username f
      2 tipe = string
   son son s
      flbe = unuper
    Mote's type may be,
 -> String, number, book
    -> list < type>
-> map < type>
> set < types
     -> object @ ({<ATTR name> = <type>, ....})
      -> tuple ([< type,...])
-> List voulable?
  voolable users {
        type = list
     output printname {
        value = "first user is $ {var.users [0]}"
        West Mana E Com
  "> terraform plan
    var. users
      Enter a value: [ Appu, Sinchu, Shiva]
     Output: Printname = first user is Appu.
```

```
> Functions:
    variable users {
        default = [ "Appu", "Sinkhu", "shivu"]
                             join the vooitable using
     Output fun-join { Sepenator Hw value
         value = "${join(">", vaoi. users)}
      Output fun_upper { make all latters in upper case.
          value = "$ {upper(vasc.user[0])}"
      Output fun_lower { An letters to lower cap
         value = " $ { lower (var. user [1])}"
       output fun title { make upper coso.
          value = " $ { title (van. user (2))}
  >>> terratorio plan
changes to outputs:
             fun_join = " Appu > Shinelun > shivu
             fun_lower = "shinchu"
 fun_title = "Shivu"
 fun_upper= "Appy"
```

Mote: There are more number of different types of functions are their.

17 Mumeric functions:

abs, cell, floor, log, max, min, parseint, power, signum

21 String functions:

chomp, format, formatilest, endent, soin, lower, upper, sugex, sugexall, suplace, split, strrev, substr, title, trip, trimprefix, trimsuffix, trimspace,

31 Collection functions:

coalesce, coalescelist, compact, concat, contains, distinct, element, flatter, index, key, length, list, lookup, map, matchkeys, mesuge, one, slangly, severse, setintersection, set product, setsubstract, setunion, slice, set, sort, sum, transpose, values, zipmap.

- 4) Encoding functions:

 base 64 decode, base 64 encode, base 64 gzip,

 csvdecode, jsondecode, jsonencode,

 text decode base 64, textencode base 64,

 uorlencode, yamldecode, yamlencode.
- abspath, dérname, patherpand, baseran file, fileenests, fileset, filebase 64, template file
 - formatdate, timeadd, timestamp.
 - 7) Hash & crypto functions:

130 (如何何点)。 是28 526 916 22 (2022)

88 IP network functions; 11

Marinally region and one of the Aprily

can, defaults, nonsensitive, sensitive, tobool tolist, tomap, tonumber, toset, tostring,