## + touch\_keystone\_service() : Boolean

+ get\_image\_id (api\_token : String, compute\_url : String) : String
+ get flavor list (api\_token : String, compute\_url : String) : [String]

+ get api auth (user: String, pass: String): {api token: String, compute url: String}

+ gen\_keypair (api\_token : String, compute\_url : String) : {key\_name : String, private\_key : String}+ delete\_keypair (api\_token : String, compute\_url : String, keypair\_name : String)

Compute

+ create\_servers (api\_token : String, compute\_url : String, keypair\_name : String, count : int,

server\_name : String, image\_id : String, flavor\_id : int) : [String]

+ get\_server\_info (api\_token : String, compute\_url : String, server\_id\_list : [String]) : [String]

+ delete servers(api token : String, compute url : String, server\_id\_list : [String])