**Infrastructure as code:**

Automates all the task end-to-end.

* a method of managing and provisioning IT infrastructure using code, rather than manual configuration.
* Programs and application. We need to know just application code.
* It sets up the machine in which we want to make the application.
* Infrastructure Provisioning:
  + Spinning up new servers
  + Creating load balancer
  + Network configuration
  + Configuration at infrastructure level.
* Configuration of provisioning infrastructure
  + Installing applications on the server
  + Managing those applications
  + Prepare the infrastructure/servers to deploy the application.
* Deployment of application
* 4 main task to run any application:
  + Initial infrastructure setup
  + Manage infrastructure.
  + Initial application setup
  + Manage application.
* Automates tasks in different categories for different phases. Combination of 2 or more IaC tools.
* Useful in DevOps environment, constantly updating and deploying the software application.