



## GOOGLE IT AUTOMATION

In information technology, the automation of these tasks is commonly accomplished by encoding the logic to perform the task into a program or script. Automation is the process of replacing manual stuff with one that happens automatically. Google It Automation is a study of how to program with Python and how to use Python to automate common system administration tasks and apply automation at scale by using configuration management and the Cloud. It manages IT resources at scale, both for physical machines and virtual machines in the cloud. It helps in solving real-life problems using python that is how automation is really helpful for real-world tasks with the use of python. It is used to build the IT foundations as it is becoming popular because of its automated task as it's used python which is the most in-demand programming language used by employers, developers because its short and crisp syntax makes it easier to understand and also helps in maintaining automate common system administration tasks.



IT automation has functionalities to develop, manage, and monitor automated processes for IT enterprises and can be used for automating repetitive tasks and manual processes so that it will cost savings and reduce human errors, and also helps in managing distributed IT environments.

Automatic management of infrastructure in the IT industry. Using tools like scripting languages, version control, configuration management systems, and monitoring solutions, automation in IT. It will have an emphasis on creating automation that's both scalable and manageable, and be able to cite the fundamentals of programming using the Ruby language, create basic automation scripts to perform system administration tasks, using regular expressions to extract meaning from the raw text to manage the code by using the version control system Git. To understand the benefits of tests for the scripts and automation they create, deploy software using the Chef configuration management software, and understand the principles of configuration management in the IT context and to track the health of technology systems through monitoring the context for becoming familiar with common monitoring. It will be helpful to be familiar with the following concepts of automation, installation of software on a computer, platform basic computer network terminology, common concepts, system administration tasks responsibilities.

