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**1) What is configuration management and types?**

Configuration Management is the process of maintaining systems, such as computer hardware and software, in a desired state. Configuration Management (CM) is also a method of ensuring that systems perform in a manner consistent with expectations over time.

Two types of configuration management tools

* Push based configuration
* Pull based configuaration

**2) why we use ansible?**

Ansible can be used to provision the underlying infrastructure of your environment, virtualized hosts and hypervisors, network devices, and bare metal servers. It can also install services, add compute hosts, and provision resources, services, and applications inside of your cloud.

**3) what is ansible and terms used in ansible?**

Ansible is a suite of software tools that enables infrastructure as code. It is open-source and the suite includes software provisioning, configuration management, and application deployment functionality.

**Terms used in Ansible:**

* Server
* Module
* Tasks
* Facts
* Inventory
* Handlers
* Playbooks
* Host

**4) Research Yaml lang?**

YAML stands for **yet another markup language**. YAML is a human-readable data-serialization language. It is commonly used for configuration files and in applications where data is being stored or transmitted.

**Rules for Creating YAML file**

When you are creating a file in YAML, you should remember the following basic rules −

* YAML is case sensitive
* The files should have .yaml as the extension
* YAML does not allow the use of tabs while creating YAML files; spaces are allowed instead

## Synopsis of YAML Basic Elements

* The synopsis of YAML basic elements is given here: Comments in YAML begins with the (#) character.
* Comments must be separated from other tokens by whitespaces.
* Indentation of whitespace is used to denote structure.
* Tabs are not included as indentation for YAML files.
* List members are denoted by a leading hyphen (-).
* List members are enclosed in square brackets and separated by commas.
* Associative arrays are represented using colon ( : ) in the format of key value pair. They are enclosed in curly braces {}.
* Multiple documents with single streams are separated with 3 hyphens (---).
* Repeated nodes in each file are initially denoted by an ampersand (&) and by an asterisk (\*) mark later.
* YAML always requires colons and commas used as list separators followed by space with scalar values.
* Nodes should be labelled with an exclamation mark (!) or double exclamation mark (!!), followed by string which can be expanded into an URI or URL.