



5.0 Automation and Scripting

5.1 Given a scenario, deploy and execute basic BASH scripts.

- Shell environments and shell variables
 - PATH
 - Global
 - Local
 - export
 - env
 - set
 - printenv
 - echo
- #!/bin/bash
- Sourcing scripts
- Directory and file permissions
 - chmod
- Extensions
- Commenting
 - #
- File globbing
- Shell expansions
 - \${}
 - \$()
 - ` `
- Redirection and piping
- Exit codes
 - stderr
 - stdin
 - stdout
- Metacharacters
- Positional parameters
- Looping constructs
 - while
 - for
 - until
- Conditional statements
 - if
 - case
- Escaping characters

5.2 Given a scenario, carry out version control using Git.

- Arguments
 - clone
 - push
 - pull
 - commit
- merge
- branch
- log
- init
- config
- Files
 - .gitignore
 - .git/

5.3 Summarize orchestration processes and concepts.

- Agent
- Agentless
- Procedures
- Attributes
- Infrastructure automation
- Infrastructure as code
- Inventory
- Automated configuration management
- Build automation