SHELL SCRIPTING

- What is a Shell
- Types of Shells
- What is Shell scripting
- Basic Shell scripts :-
    - ❖ Hello World
- Conditional statements :-
    - ❖ If-else
    - ❖ Switch case
    - ❖ Conditional Statement Scripts
- Looping / Iteration statements :-
    - ❖ For loop
    - ❖ Do-while
    - ❖ Looping Statements scripts
- Arrays
- Functions
- Command Line Arguments

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Production Use Cases

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1) **System Monitoring** :-

- ✓ Disk Utilization Reports
- ✓ Memory Utilization Reports
- ✓ CPU / Load Reports
- ✓ Other System Metrics Reports

2) **Logging & Debugging** :-

- ✓ Enable logs with Shell Scripts
- ✓ Capture STDIN STDOUT STDERR in log files
- ✓ Running Shell Script in Background
- ✓ Debug Shell Scripts

3) **System Hardening** :-

- ✓ Server Hardening
- ✓ Application/Service Hardening
- ✓ Set Kernel parameter

4) **System Alerts** :-

- ✓ Email Sending
- ✓ Auto generated Email Alerts

5) **Linux Housekeeping Tasks** :-

- ✓ Archiving Logs
- ✓ Purging Logs Schedule
- ✓ Automated backups

6) **Host Commissioning Prerequisites** :-

- ✓ Automated Packages Installation
- ✓ Service Configuration
- ✓ Agent/CLI Installation

7) **Ad-hoc Tasks on Multiple Linux Hosts** :-

- ✓ Gather IP details
- ✓ Check OS Name & Version
- ✓ Setting hostname on multiple server
- ✓ Gather all user details from multiple server
- ✓ Gather Hardware details (CPU / Memory / Disk)

8) **System Configuration Management** :-

- ✓ NTP SYNC / Update
- ✓ Host file Configuration
- ✓ DNS Configuration
- ✓ Change existing Configuration

9) **Command Line Arguments** :-

- ✓ Dynamic Scripts with Arguments
- ✓ User creation on multiple hosts

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Thank You

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