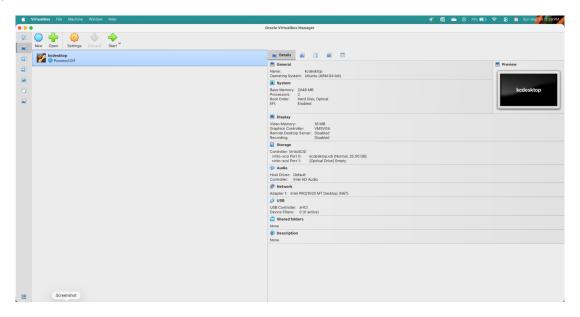
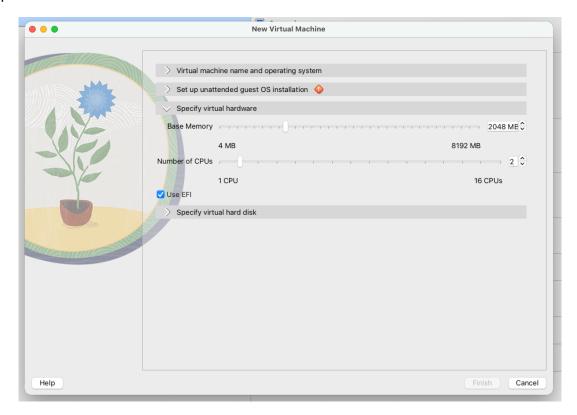
BIA-4650

Assignment-3

Step-1









```
shadepic login: Sahadepix

Sahadepix login: Sahadepix

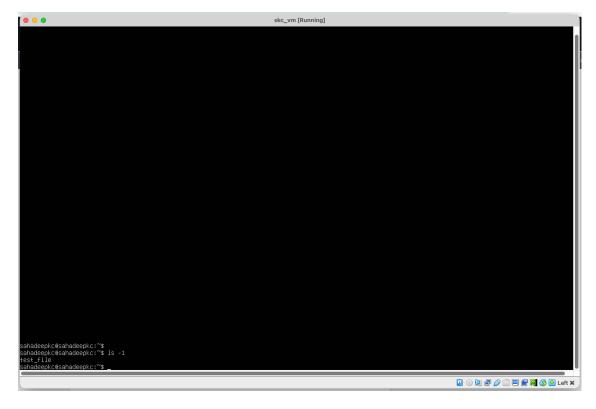
Sahadepix login: Sahadepix

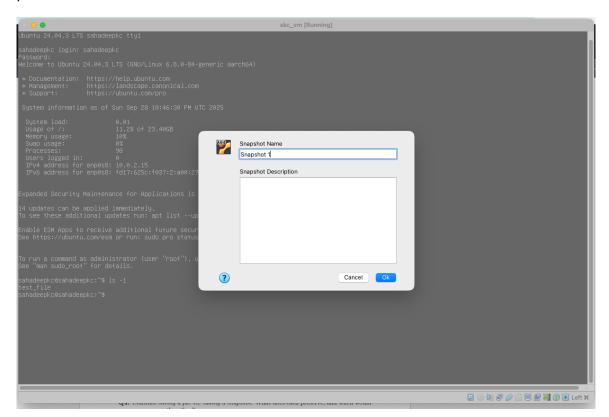
Passurd:

**Cocumentation: https://belp.ubuntu.com

**Cocumentation: https://belp.ubuntu.com

**Support: https://belp.ubuntu.co
```





```
ske_vm (Snapshot 1) [Running]

Ubuntu 24.04.3 LTS sahadeepkc Http:

Canadaceptc login: sahadeepkc
Passundt

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Dopumentation: https://help.ubuntu.com

* Managament: https://help.ubuntu.com/pro

System load: 0, 01

Usage of /: 11.2% of 23.400B

Manory usage: 10%

Sam usage: 9%

Processes

Processes

Sam usage: 9%

Processes

Sam usage: 10%

Canadaceptcadadaceptc: 11:00 to 10 to 10
```

```
## Ske_vm (Snapshot 1) [Running]

## Ubuntu 24.04.3 LTS sahadeepkc tty1

## Scanadespke login: sahadeepkc

## Commentation: https://elp.ubuntu.com
## Snapsport in https://elp
```

Reflection Questions:

- In business terms, how does a snapshot reduce risk and cost during software updates or testing?
- A snapshot reduces risk and cost by capturing the exact system state before updates or tests. This allows quick rollback if issues arise, minimizing downtime, data loss, and recovery expenses. It also speeds up testing and reduces labor costs, letting businesses update safely without major disruptions.
- 2. How do resource limits (RAM/CPU) help balance performance and cost in a shared computing environment?
- They help by preventing a single user or application from overusing resources and slowing down other users. This ensures fair access, maintains consistent performance, and avoids costly overprovisioning of hardware. By allocating only what's needed, businesses keep infrastructure efficient, control expenses, and deliver reliable service to all users.
- 3. Give one business scenario (e.g., online store during Black Friday) where restoring a snapshot could save time and money.
- An online retailer during Black Friday pushes a last-minute software update to its checkout system to handle higher traffic. The update unexpectedly causes checkout failures, stopping sales. By restoring a snapshot taken right before the update, the IT team can instantly roll back to a stable version. This saves hours of troubleshooting, prevents lost sales during peak demand, protects customer trust, and avoids the much higher costs of prolonged downtime.
- 4. Contrast saving a file vs. taking a snapshot. What does each preserve, and when would you use one over the other?
- Saving a file can help store your progress you have made while working on a specific document whereas taking a snapshot will help restore the point of system state.
 Retrieving a point of time before a major software update or an application update can be done with a snapshot.
 Saving a file when a document is done preparing or saving progress made in one and snapshot to get back to point of any changes that are going to be made.