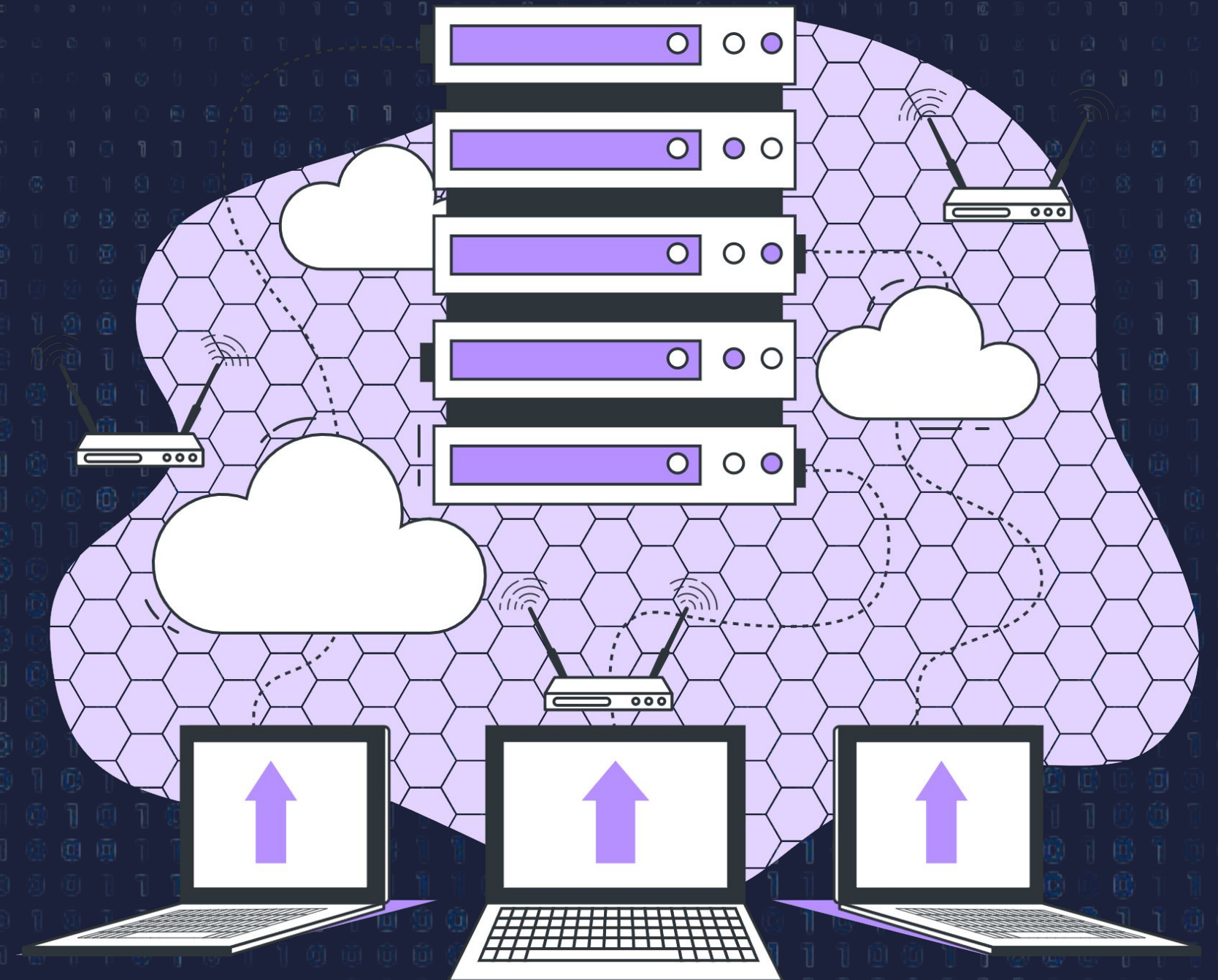




Key Value Database





What is key-value

Key value pairs are used for data storage wherein key is a string and value can be any datatype.





Use cases

- Caching (Ex. Redis)

A solution to avoid unnecessary DB calls wherein the information is stored in the local system so that it can be referred the next time the exact information is sought.





Use cases

- Distributed system (Ex. Zookeeper)

In the scenarios where multiple machines have different data, it becomes important that there is a provision of maintaining a configuration in the form of key value so that the system functions efficiently.



Use cases

- Real time analytics (Ex. Aerospike)

Read is very fast based on the keys.



Challenges in key-value DB

1. Lack of query support (no complex advanced query processing options)
2. Data modelling complexity (only key value kind of mapping is allowed)
3. Limited datatype (key can only be a string, values can be any data type)





▶ THANK YOU ◀