ETCD

- → etch v3 is the recent vertion, so I am not going to warry about order version.
- -> To install:

 -> etch binary can be downloaded online
 which is the enriest way to install

Yetting Started:

- -) It is quite easy to put in data and fetch data from etcd
- for storing data etclett put (my key) "value"
- > for fetching data etclill get complay) (

-> Flatten binary Key-value space:

- -) leys are treated as single byte strings
- → no hierarchy is keys → even 'y the key can have stashy to create heirarchical appearance, they do not netroly mean constries

I makes it simple Both keys our values are storing as vow, binary byte array. Alsons for storing not -> Both keys just strigs but senalized data such as protowl buyers, ISON or any oner formet -> Bengir -> give cooking: Don't have to parse compress hierarchital key -) lexicographically sortid: early for varge queries, for example, to given our lays with certain prefix; <my key) -> compartion -) Fres you Muca (muli verties concurreny control) model

-) Finis means every uplate of a data is store of a new revision

-) Estis creates large space contunyation even value would overner the spow uplate of key 3 comparties many order versies of later for Deletion

i) The Dirk space is not redained bout , though, through compaction

Frat min by Done from "Defregment

ation"

2 et 2 stores au hirtorical versons of leeps and data. Over fine, this water a lot of tombstand (dueta) or superseded (or versions) of data

- Composition pruns trus on Data; Keeps as-non
- -> avant happens during comparties?

 -> every with operations invenents grant
 revisions
 - -> Keys are recent is types of (lay, reriens, value) in BottoB backers
 - I comparties is triggend nith a revision our bor 'r'. Any key order than 'r' is marked on compartable
 - -) TVCC removes all the keys that are before 'r' except the most recent versions that is (: 'r'
- I Any client watching from a compacted version mit get "Error compacted" and must research she from a never version of the actual conductions of rewriting only occurs upon "Defragmentation"