· hec 2 Distributed system :

e Distributed system challenges:

· parallizm (what about cpu, memey, I/o)

o fault tolerence Lo Reconery.

o Physical

(Data protection / Isolation) o Security

The goal of Distributed system (DS) provids

infrastructure for applications.

· might be one of the

following &-

1 storage

2 Communication

well-define interface Berrer De Les on decent serves

معتنلف . وبالماك أناهنا عمام احققم

· openness ins;

different Appropriation

we need to Abstraction

hide the distributed nature of sys.

. when somble of this alevent.



Nos Partial failure no Su 195 Pleus

o when some items one Stop working other items are Continued.

o in general the partial failures occure by the network infrastructur / Connection unnetiable.

o Thee main factors to overcom Ds's challenges ? (1) - Peformanle (Bos level — in Crease sys Network bandwidth Performance 14 Therefore ligh o scalability through put throughput. packalelotivery · Security · Routing policy) scale-out Scale-up Juleia scale ind globale Service magerment hocal

@ fallt tolerence.

are Significant & availabitity. (portial falium)

nequirment of Lo system necessery. (Reparing for crucking Ds."

Parts without any loss of Greetness)



