Pap PEER-TO-PEER NETWORKS APPLICATION TRANSPORT (lient NETWORK DLL > Peers (Equals) PM مامجر INTEND · Bootstrapping . what some? Share digital content Peers · A logs in · A gives details of files it has · moth with File!, (Flet => IPA) given to C . Search for Song C can connect to A and get Files Centralised - Single point of failure (not blevont)

Single point of failure (not blevont)

Agalleg early to take down

GNUTELLA (Next generation) Bootst rappung Stocky, Color Albun (1) Application may have IPs of some then peers (2) Loderp IPs from one or more websition Suppose A wants to search · LIMITED BROADCAST (TTL=n, TTL-- at every hop) TTL=== => don't food First method Query had "k", QID Culnique ID Reply over the path the Over transact SECONO Method: Query has IPA as well lepty directly to A VO.4 -> TTL = 7 V 0.6 - TTL = 4 Questini: If N nodes in network, can I grang only O(logn) notes to find where data is stored?

