Final lab 1) hole Punching technique: The hole Puniting tellingue is used to establish a dirett Connection between 2 devices behind 2 different network address translations (NAT) devices with needing any latermeditary servers by Intermeditary servers. Hole Punthing basically both devices establish ontboard Connections to a third Porty server that is accessible from both devices. This server relays Packets between the two devilos allowing them to communicate with each other A+B estrablish an onb bound connection to Server. Server relays IP address and Port num
of device B to device A repents in reverse

3) how do Spatial Parktining: Game world 15 divided Into Smaller Sections and Server only Sends Level only Sends Level only Sends Level only Send Uparkes for this areas of man visible by player. This areas the amount of network the of potentially visible set 15 of objects that are prosition and view the profits (great hopestion and view the profits of headers Object Chiling: applices for objects when one visible of relevant to the server Player are not sent to server. P. a special server want send upoken on cois behind the Player. CHAND apploaltes traffic as non visible aleas are not statil zong will divide the game

Statil and will divide the game

Statil alers or Zones and

holders for objects within the techniques of interest management devices have IP, kney can each other. Cyllin & Zone all State these Internet management benefit the game. "unuma)

pus benefits the game in several ways.

Gist It reduces bandwidth used by

Gist of others bandwidth used by

Little place This gillows for a more

Can allow for complex game metanics

Little dynamic events and grests that

Latter place gilloss multiple areas.

Statil Zones are main simple to implement and from the gamethy experience they can calso online the fearthied and predicted feel parties as apostes for objects of the players as apostes for objects of the players zone can be delayed of battral to reduce Server load.

LADOKE, 4) one (lientside affalk 15 a phishing affalk) one (lientside affalk 15 a phishing affalk) of early consist right constitute of sensit right constitute for sensitive interest should be edulated to sport them such as Chelling

Servers, de attalle could be an SOL Commands
In Teltion affailler executes SOL Commands
In 10Pat Field to retribe Sensitive
data.

ad Justing aim. To prevent this, deis (an and lapht. for player modes and other players. Scans abnotinal patterns of monitering pressor anti-thest methonisms such as detecting wallhalks Aimbot 15 Software that methods of (hoching offe gimbot on

actions, also monitoring player behaviour. Implemented to their validity of player thiough walls. Server Side Chelles wallhalks makes player models be uside 600 60