SMTP Server (MAIL Server) Whate a mail? Let's say if a uses is sending a email From: akash @ gmail com To suppost @ outlook.com Now how the sender's mailserver would know

where to send the mail's So first it checks for the domain associated

the mail, "outlook com" and queries DNS

for the MX Record. => mails erver. com

Mail Exchange Record: it handles the mail req on the domain by exchanging the server's If that's responsible for handling the mail

= Next it questes DNS to get the IP associate with the domain (mailserver.com) A Record

outlook-com MX => mailserver.com

2) mailseover.com A => 1.2.3.4

Similary we have for more Recordo: Zib DKIM: stores the public key thatin used to validate the and decoupt the email on the receipions mail server. 3LIDMARC: tells the occeiving mail servers how to handle emails that don't outher ticate 14 SPF: 9+ allow the recipient mo which servers are allowed to send emails domain verify that email from a domain legitimate and help prevent spam why in cope of nodemailer the mails are getting marked as spams! Allow serves mentioned in A Record eg. V=spf1 a include: -spf. google.com authorize emails that the sender can send in tells the receiver's server to only authorize listed in shere!

Mail Server: We have the SMTP that handles the sending 4 receiving of the mail SMTP operates on PORT 25 and SMTPs (secured) on 465 DNS settings: Record A 1.2.3.4 mail. example. com Mx mail-example com example com akash@ example.com afor HTTP Jerver So as we have a HTTP mathods like GET, Por aly on SMTP we have commands: in HELO EHLO: initiate the SMTD flow: session conversation i) hondshake : establish to That's were've we can perform a TCP connection necessary DHS query checks 2) email transfer LIKE SPT & DKIM (3) termination; claims eg. HELD gmail.com a TCP connection this domain is toying to establish a cannection

2) MAIL FROM :	initiales o	mail	transf	er
e.g. MAIL FROM	1 "akash	@gmall.	iom" §	sender
3) RCPT TO: SY				
4 indludes a				
e.g. RCPT To	" me@d	evakoshii	n''	
note we cand	add cher	cks for	the	USERNOMO
and accept or	reject	accordin	9,8	
4) DATA: the clier	the mail	server f	to per	misrion
: s) QuIT: send +	he req to	terminat	c the	SMIT P Secsion
e.g. Client M.S.:			SMT	2 Serves
You:	HELO gma			
akah @ gmail.com	WIAEL FROM			
To:			Pass? Aco	ept: Reject
me@devakeshin	RCPT TO M	eldeva.	USOT C	Heck
	Pato RUIT		verify	DKIM