

Mail

Everything associated with mail has High rating as we are dealing with private and restricted data. So no one else then the owner of the mail should have access. Therefore, mail is secured through the user authentication and authorization measures of the OS user account system. For the secure protocol imaps is used. For WEBmail https is in place.

			capacity		latency	IOPS	throughput	granularity	reliability	energy use	accessibility	
			raw	density							random	sequential
Desktop	RAM		few GB	medium	nano sec	huge	high	very high	low	high	high	low
	OS/scratch		hundreds GB	high	micro sec	medium	high	high	medium	medium	medium	low
	permanent		several TB	high	milli sec	medium	high	medium	high	medium	medium	medium
KA	VM's server		several TB	high	micro sec	huge	huge	high	very high	high/medium	high	low
	home		several TB	high	micro sec	huge	huge	high	very high	high/medium	very high	low
	application/group		tens TB	high	micro sec	large	medium	high	very high	medium	medium	medium
Compute servers	OS/scratch		hundreds GB	high	micro sec	huge	huge	high	medium	high/medium	medium	low
	permanent		tens TB	very high	milli sec	huge	huge	medium	very high	high/medium	low	high
Cluster	OS/scratch		100GB	high	micro sec	medium	medium	high	medium	medium	medium	low
	permanent		tens TB	very high	milli sec	huge	huge	medium	high	medium	medium	high
Nearline			hundreds TB	high	milli sec	medium	huge	medium	high	medium	medium	medium
Bulk	on-line		hundreds TB	huge	milli sec	medium	medium	low	medium	medium/low	low	high
	off-line		hundreds TB	huge	sec	small	small	low	high	extremely low		
Archive	on-line	meta-data	few TB	high	micro sec	high	medium	medium	medium	medium	medium	low
		data	tens TB	huge	sec	medium	small	low	very high	medium/low	low	high
	off-line	data	hundreds TB	huge	sec	small	tiny	low	extremely high	extremely low		

There are two elements to the mail system: Inbox and personal folders. The Inbox is physically located at the mail server to which no user has login rights. Inbox content can only be accessed after successful authentication. The personal mail folder structure resides inside the user home directory space. Both are accessed using the dovecot or MS Exchange utility (based on imaps encrypted and authenticated protocol).

Sending mail is performed using the submission protocol which is both secure encrypted and authenticated.

See [here](#) how to setup the mail client or access WEBmail.

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