ESSIGNMENT -5

NAME

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COURSE NAME : Computer Networks

COURSE CODE : CSA0735

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Topic - A Firm Ensures Email Access Across Devices.

Ensuring Secure Email Access donoss Derices.

scenario:

d company with 100 employees marges

secure email access across multiple devices. Each employer handles an average of 10 MB of

email data per day.

Parameters:

- Number of employees:100

* Daily en ail data per employee: 10 MB.

a) Differentiate POP3 vs IMAP in Auretionality.

Jesture POP3 (Post effice Protocol V3) IMAP (Internet Hessay access Brotocol)

storage Emails are downloaded Emails stay on its and removed from server server

decessibility decessible from one synchronizes acro device multiple devices

Folder Limited folder Full support for ser support organization Side folders b) estimate Honthly Storage Required.

yiven

~ 100 employees

* 10 MB mails per day per employee

+30 days in a month.

calculation.

Jotal per day=100 × 10 MB = 1000 MB = 1618

Monthly storage = 1 GB/day × 30 = 30 GB

Estimated Honthly storage: 30 GB

Jo ensure secure email transmission the following TLS.

1. LUSE TLS 1.2 87 TLS 1.3 Dry.

deprecated and insecure.

2. Enable SMTP, IMAP and POP3 over TLS # SMTP over TLS: April 587.

* IMAP over TLS: Port 993

* POP3 Over TLS: Pour 995.

d) Recommended on Anti-Phishing Policy User dubreness Training.

* Regular sessions to teach employees how to identify suspicious emails and links

2. Multi-factor suthentication.

« Adds on eactra security layer to uses email accounts

3. Report and Respond system.

and have a defined process to respond.

4. Link and attachment scanning.

attachments for threats before opening.

-lon dusion:

secure imail access requires as:

combination of proper protocols, storage planning,
enveytion practices, and user vigilance.

Implementing IMAP with TLS, monitoring storage
growth and inforcing anti-phishing.