

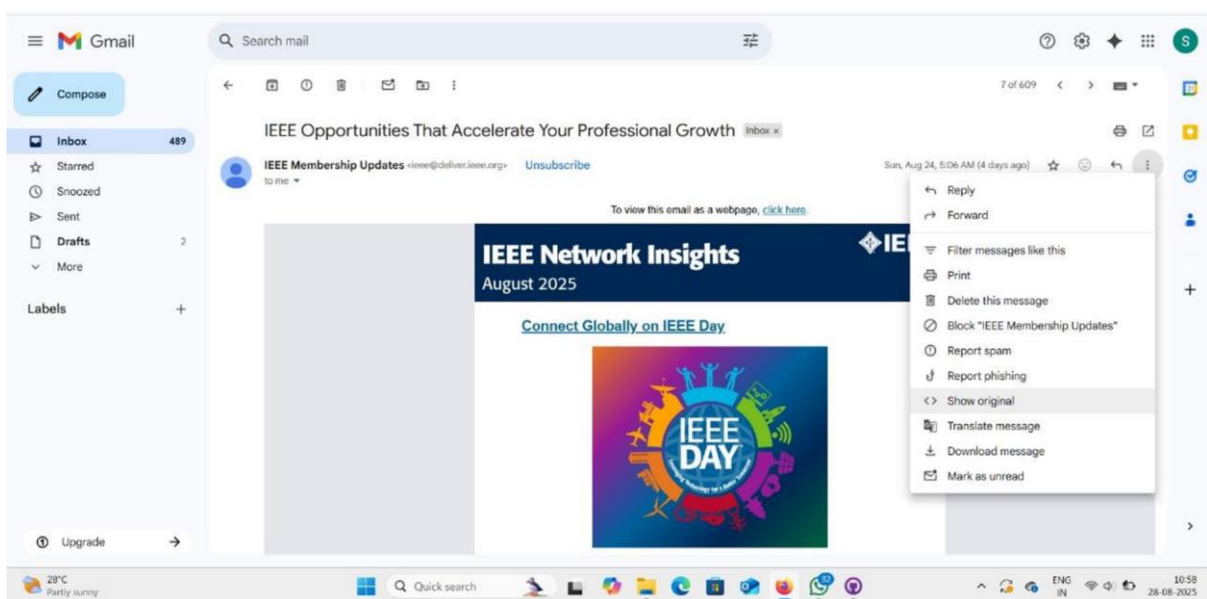
## EXP 4: Analyze email headers and detect email spoofing using MHA

### Aim:

To analyze email headers and detect possible email spoofing using the Mail Header Analyzer (MHA) tool

### Procedure:

Open the full email header (from Gmail, Outlook, or Yahoo), copy it, and paste it into the Mail Header Analyzer. Review key fields like Received, Return-Path, Message-ID, SPF, DKIM, and DMARC to trace the sender's route and verify authenticity. Identify mismatched domains, failed authentication results, or suspicious IP addresses indicating possible spoofing.



Original Message


Message ID	<507594133.4892760.1755991925353@abmktmail-batch1f.marketo.org>
Created at:	Sun, Aug 24, 2025 at 5:02 AM (Delivered after 260 seconds)
From:	IEEE Membership Updates <ieee@deliver.ieee.org>
To:	sanakarisiva@gmail.com
Subject:	IEEE Opportunities That Accelerate Your Professional Growth
SPF:	PASS with IP 192.28.153.150 <a href="#">Learn more</a>
DKIM:	'PASS' with domain deliver.ieee.org <a href="#">Learn more</a>
DMARC:	'PASS' <a href="#">Learn more</a>

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Delivered-To: sanakaravis@gmail.com  
Received: by 2002:a05:7412:400e:b017c:e68f:ef74 with SMTP id gb14csp4917953rdb;  
Sat, 23 Aug 2005 16:36:25 -0700 (PDT)  
X-Google-SMTP-Source: AGH1zH4U16lw66Yq4Ykzm2Q9f5xMBQ93/Cc9j/VhQdKfP9XdkXLtLRjY8uzY1EBIO/DQaL  
X-Received: by 2002:a05:622a:144d:b04c:195a:b92e with SMTP id d75a77b69052e-4b2ba49916m9c39775f3c.39.175599128566a;  
Sat, 23 Aug 2005 16:36:25 -0700 (PDT)

28°C Partly sunny Quick search ENG IN 10:58 28-08-2025



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Analyze Headers

Email Header Analyzer

Paste Header:

```
<?xml>


<div></div>
</body>
</html>

----- Part 4892759 161754456.1755991925353-----
```

Analyze Header

ABOUT EMAIL HEADERS

This tool will make email headers human readable by parsing them according to RFC 822. Email headers are present on every email you receive via the Internet and can provide valuable diagnostic information like hop delays, anti-spam results and more. If you need help getting copies of your email headers, [just read this tutorial](#).

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Twitter

Facebook

Instagram

YouTube

RESULT:

Header Analyzed

Email Subject: IEEE Opportunities That Accelerate Your Professional Growth

Analyze New Header

Delivery Information

DMARC Compliant

SPF Alignment

SPF Authenticated

DKIM Alignment

DKIM Authenticated

Relay Information

Received Delay:

0 seconds

From deliver.ieee.org to mx.google.com

To

Relay (Seconds)

00.20.40.60.81.101.2

Hop

Delay

From

By

With

Time (UTC)

Blacklist

1

0 seconds

deliver.ieee.org 192.28.153.150

mx.google.com

ESMTPS

8/23/2025 11:36:25 PM

2

0 seconds

2002:a05:7412:4e0e:b0:17c:e68f:ef74

SMTP

8/23/2025 11:36:25 PM

Blacklisted?

Improve your email delivery.

Learn More

SPF and DKIM Information

dmARC:deliver.ieee.org

Show

Solve Email Delivery Problems

v=DMARC1;p=quarantine;rua=mailto:dmARC-reports@deliver.ieee.org;mailto:0tayqma5@eg.dmarcian.com;ruf=mailto:0tayqma5@fr.dmarcian.com;aspf=r;adkim=r;pct=100;sp=quarantine;

spf:deliver.ieee.org:192.28.153.150

Show

Solve Email Delivery Problems

v=spf1 include:mktoemail.com ~all

dkim:deliver.ieee.org:m1

Show

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v=spfl include:mktomail.com ~all

dkim:deliver.ieee.org:m1

Show

Dkim Public Record:

v=DkIM1; k=rsa; p=HGfTHAGKCsG5Ih3QEQBAQUAAGUADCB1QK8gQCRRoe1tHuErcE8ZD8okz8eHvauO/QPCmcqGutAaicGhAR7nr1AbH+9RDrWkggH11c3c1U0WvYkR+RFQepGyEtgpWrp3lu1kehA7ZJH6du8Wk1XpR5t8vc17/W6k96whTasu4fnek11

Dkim Signature:

v=1; a=rsa-sha256; q=dns/txt; c=relaxed/relaxed; t=1755991925; s=m1; d=deliver.ieee.org; i=@deliver.ieee.org; h=List-Unsubscribe:List-Unsubscribe-Post:Content-Type:MIME-Version:Subject:To:From:Date; bh=87Uolaud4c48kdIVCycbtfzbq4p6mln2Q5TKODPHHeaaU=-; b=cBQZ9VCZAwu8bHY4TmhQZdqZ5Ujln+XAg9sMhkE8JE9fagvIEZQYVJlofW7YC+/vZn4Y49jNFsx4XRba7IPacqqTolsRRq2jWLaqvwBhc5z9uKw6j4zx3DxD7i+GNgrlqvQwA6

dkim:mktdns.com:m1

Show

Dkim Public Record:

v=DkIM1; k=rsa; p=HGfTHAGKCsG5Ih3QEQBAQUAAGUADCB1QK8gQCRRoe1tHuErcE8ZD8okz8eHvauO/QPCmcqGutAaicGhAR7nr1AbH+9RDrWkggH11c3c1U0WvYkR+RFQepGyEtgpWrp3lu1kehA7ZJH6du8Wk1XpR5t8vc17/W6k96whTasu4fnek11

Dkim Signature:

v=1; a=rsa-sha256; q=dns/txt; c=relaxed/relaxed; t=1755991925; s=m1; d=mktdns.com; i=@mktdns.com; h=List-Unsubscribe:List-Unsubscribe-Post:Content-Type:MIME-Version:Subject:To:From:Date; bh=87Uolaud4c48kdIVCycbtfzbq4p6mln2Q5TKODPHHeaaU=-; b=cBQZ9VCZAwu8bHY4TmhQZdqZ5Ujln+XAg9sMhkE8JE9fagvIEZQYVJlofW7YC+/vZn4Y49jNFsx4XRba7IPacqqTolsRRq2jWLaqvwBhc5z9uKw6j4zx3DxD7i+GNgrlqvQwA6

Headers Found

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Import bookmarks...

Headers Found

Header Name	Header Value
Delivered-To	sanakarisa@gmail.com
X-Google-Smtp-Source	AGHT+IHqI6ww6Y7GaylkmZQo97x5MBQgs93/CCuqK/VvDqKf9DxbXKLEqYBuzqYIEBIO/DQaL
X-Received	by 2002 a05.022a.144d.b0.4af.195a.b92e with SMTP id d75a77b99052e-4b2aab49916m92397751cf.39.17559921859664; Sat, 23 Aug 2025 16:36:25 -0700 (PDT)
ARC-Seal	i=1; a=rsa-sha256; t=1755992185; cv=none; d=google.com; s=arc-20240605; b=J1XaRC/PCUp8qg+ANvzBdgK/ZabdcYzweSwZgmXC+L63UzqTqtkclg7O8WRN497/7eakXEmN+gLK5G+vVHupVzHt1nOKop8uPOIQrVWU/KHQZ8gKrlmPhXy5A2Lsp1w 07a/EswvDFae3GJUYEJUsTRHbV1UvVgtLeodlR6MdeBbd+Nbfk2xZDFHonUUT2 LkY1rGWwLmNJuopGJg3sYLh2TO8OR1jUvbWY0XSD7Aky6U5f-cwKNIOfchRnFmlkA5NZ7C4k3QvSY8gmYAKl2KggH+3bz5GFS4X0Rld4+sklOTKQY5lck7zic8LlySI++Ww==
ARC-Message-Signature	i=1; a=rsa-sha256; c=relaxed/relaxed; d=google.com; s=arc-20240605; h=list-unsubscribe:post:mime-version:subject:message-id:to:reply-to:from:date:dkim-signature:dkim-signature; bh=87Uolaud4c48kdIVCycbtfzbq4p6mln2Q5TKODPHHeaaU=-; fh=1MZQLbhZyG7RRKOSEBUnr68rkY3EIPtdnWxEd5pag=-; b=TTD+6msd7W5Nc7TtUcawVcdNcOaRYJXsnozh4B5TALUKITRFMyfF0xzJfmAZiQJRs 00vZkUQUIM2P6sCPynF12v8auwhqTAqIRBRDyK3qf8kj28CnqHIMZaIdUP0htu0 uRKO3xhUYwAWRq7jpnQBXyrTDTmkKcof5vdeFQISiYlnYcxsl4xsGmGzqyUwDq /elqya8HkuiBabYtolicq36ekiFADydeGA6sD4GhP32P7FEVZ0jpZdHKL7BdsCJNM 3sT9XhuZEmplXPHSKOU501dUSsqSeEPSJN4I773QqOWXg9RWi+p8IKJzwlha8Axxv idKg==; d=arc=google.com
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Received-SPF	pass (google.com: domain of 756-gph-899.0.79404.0.0.110893.9.72244592-145@deliver.ieee.org designates 192.28.153.150 as permitted sender) client-ip=192.28.153.150;
Authentication-Results	mx.google.com; dkim=pass header.i=@deliver.ieee.org header.s=m1 header.b=cBQZ9VCZ; dkim=pass header.i=@mktdns.com header.s=m1 header.b=kqTqVtH; spf=pass (google.com: domain of 756-gph-899.0.79404.0.0.110893.9.72244592-145@deliver.ieee.org designates 192.28.153.150 as permitted sender) smtp.mailfrom=756-GPH-899.0.79404.0.0.110893.9.72244592-145@deliver.ieee.org; dmarc=pass (p=QUARANTINE sp=QUARANTINE dis=NONE) header.from=deliver.ieee.org
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X-PVIQ

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X-MSYS-API

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true

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