

INFORMATION SYSTEMS SECURITY

IS2109



17020069 - D.N. Amarasena

17020964 - W.A.S.J. Weerasinghe



1. what are the threats to your Gmail account?

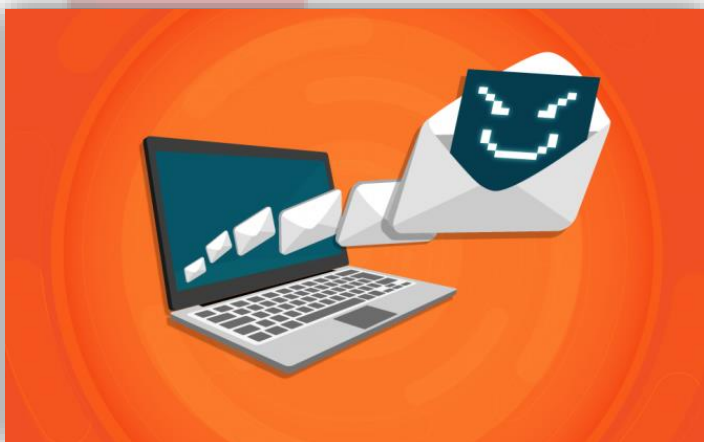
- ✚ ransomware
- ✚ links to malicious webpages
- ✚ spam
- ✚ key logger

2. what are the vulnerabilities in email system?

- ✚ Unauthorized access
- ✚ Computer viruses
- ✚ Sabotage
- ✚ Vandalism

3. what are the protection measures design and implemented by Gmail?

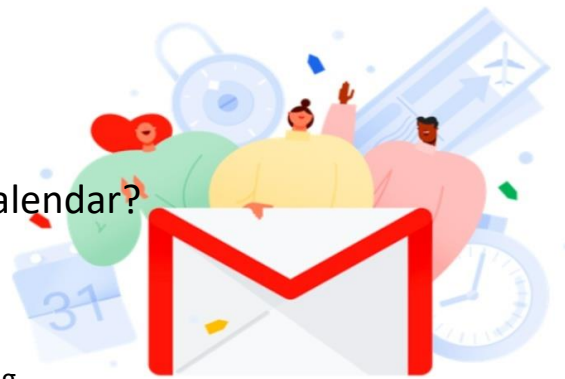
- ✚ third-party encryption in transit
- ✚ two step verification
- ✚ 24-hour lockdowns
- ✚ Spam filter



Gmail Security Issues

What is the issue with new Google calendar?

It has been proven that all the Gmail users all around the world have been in to the risk relating the google calendar events.



Cyberattacks and scammers will try every trick in the book to lure you into parting with your information.

The latest Gmail security attack is Google Calendar scam.

1.5 billion Gmail and Calendar users were affected this google calendar scam.

This issue is happening with the new Gmail calendar since 2017 and the number of victims is getting higher and higher until an action is taken against this criminal.

Scammers are misusing the feature of the automatic Gmail Calendar that allows adding events and sending notifications for the user. Planned emails have invitations and reminders delivered alongside the main message.

When the invitation is received, the user gets popup notification on the smartphone. The fake message is announcing the particular prize or contest. So, the users are willing to open the received emails and visit the provided malicious links. The intent from those sending the junk mail hope users will click through to a specially crafted website.

Then google get action for prevent this spam. They provided simple option on settings.

- open google calendar page settings.
- Select event settings
- Change the “Automatic add invitation” option to “No, only show invitations to which I have responded” from the list

← Settings

General

Language and region

Time zone

World clock

Event settings

View options

Working Hours

Main work location

Keyboard shortcuts

Add calendar

Import & export

Event settings

Default duration

60 minutes

☐ Speedy meetings

End 30 minute meetings 5 minutes early and longer meetings 10 minutes early

Default guest permissions

Invite others, see guest list

Automatically add invitations

Yes, but don't send event notifications unless I ha...



Notifications

Desktop notifications

☒ Play notification sounds

