How to share calendar between Google Calendar and Nextcloud Calendar

I. Share Google Calendar to Nextcloud Calendar

Source: getting the iCal link in Google Calendar

1. In the left calendar list menu of Google Calendar, go to the ⋮ menu of the calendar to be shared
2. Click on "Settings and sharing"
3. On the Calendar settings page, scroll down to "Secret address in iCal format"
4. Copy this address and send to the owner of the Nextcloud Calendar

Target: adding the calendar in Nextcloud Calendar

1. Take the basic.ics sent from Google Calendar
2. In Nextcloud Calendar's left menu, click on "+New Calendar" > "New subscription from link (read-only)"
3. Insert the basic.ics link
4. Your new calendar subscription will appear in the list; you can change its name or color in the ... menu of the calendar

II. Share Nextcloud Calendar to Google Calendar

Source: getting the calendar export link in Nextcloud Calendar

1. In the left side of Nextcloud Calendar, you see a list of your calendars; the ones you own, will have a Share icon: ❮
2. Click on the Share icon of the calendar you want to share
3. Click on "Share link" to create a share link for this calendar
4. Now go the the ⋯ menu of this newly created share link and click "Copy subscription link"
5. Your subscription link is now on your clipboard; paste it to a secure/encrypted chat and send it to your Google Calendar using peer

Target: adding the calendar in Google Calendar

1. Copy the Nextcloud Calendar subscription link you received via secure chat or other secure messaging
2. In Google Calendar's left side menu, go to Other Calendars and press "+"
3. In the menu popping up select "From URL"
4. Paste the subscription link you received
5. Your Google Calendar now has an Other calendar using the subscription link you added; you can change its color and other settings in its ⋮ menu

III. Good to know

1. **This is important:** these subscription links (both in Google Calendar and Nextcloud calendar) are public and don't not need any further authentication to get access to your calendar! Take extra caution to only share them with the person you want to have access to your calendar, and to share it using secure means, ideally a self destructing encrypted chat message or similar. If your calendar is accidentally exposed, you can delete the share link and recreate/reset them; in this case you have to do the whole sharing exercise again for the given direction.

2. You can generate a link to a public html version of your calendar that can be simply viewed, not synced. In case of Nextcloud you can also email this link automatically. Same caution as above - these are public links to your private calendar.