

How do push notifications work?

1. Adding **client** logic to ask the user for permission to send push notifications. Once we have permission a **PushSubscription object** is return to us by the browser (which can be thought of as a device/client identifier). We then send this object to our server (to store in database)

```
1 // Use serviceWorker.ready to ensure that you can subscribe for push
2 navigator.serviceWorker.ready.then((registration) => {
3   const options = {
4     userVisibleOnly: true,
5     applicationServerKey: publicVapidKey
6   }
7   registration.pushManager
8     .subscribe(options)
9     .then((pushSubscription) => sendSubscriptionObjectToServer(pushSubscription))
10    .catch((err) => console.log('There was an error ', err))
11 })
```

```
1 {
2   endpoint: 'https://fcm.googleapis.com/fcm/send/dnllPq6NR7E:APA91bERryUT-d2C',
3   expirationTime: null,
4   keys: {
5     p256dh: 'BK6Yl1dbZTCCfVKeKTPDsUajF-kMc4eGaewNzvFspZPkoX2F__HHuSj1buJNg0Zq9JF8lTYkfHZH2lv8UDBqqLI',
6     auth: '_WaWEIbW1xnIE4LSaho9uw'
7   }
8 }
```



1. Get Permission to
Send Push Messages

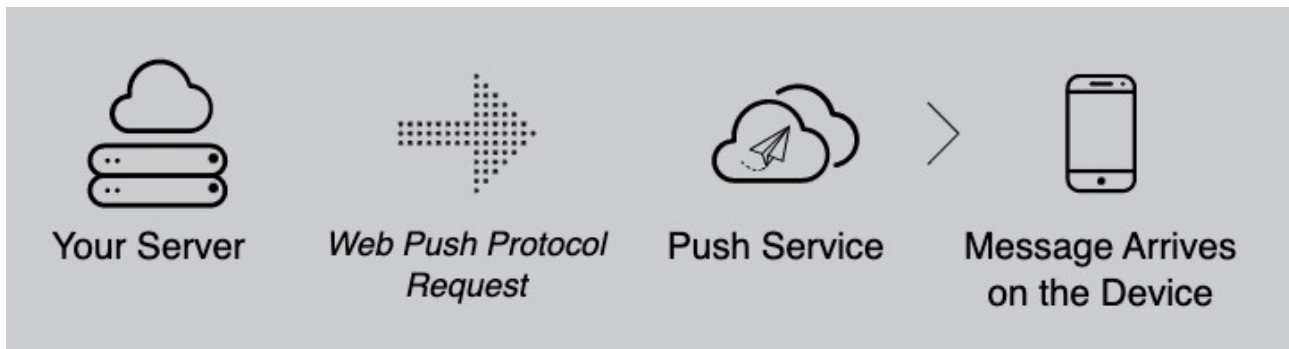


2. Get PushSubscription



3. Send PushSubscription
to Your Server

2. Once we receive the `pushSubscription` object(s) from various clients. We add **server** logic to push messages to client devices (via browser vendor push service) – the `pushSubscription` object(s) let's the Push Service know which client to send the push to.



3. We then add **client** logic to receive messages that have been pushed to the device and display them as notifications (using service worker)

```
1 //Listen for Push event from our Web Server
2 self.addEventListener('push', (event) => {
3   console.log('Recieved push notification from Push Service')
4   //Notifications sent from server e.g 50% off sale!!!
5   const data = event.data.json()
6   self.registration.showNotification(data.title, {
7     body: data.message,
8     icon: 'http://image.ibb.co/frY0Fd/tmlogo.png'
9   })
10 })
11
```

