

Grundlagen

Was sind Push-Nachrichten?

Nachrichten können über einen Server an Endgeräte versandt werden. Der Server übernimmt die Übertragung.

Welcher Web-Server wird verwendet?

Es gibt einen Web Server welcher für Chrome entwickelt wurde.

User entfernen

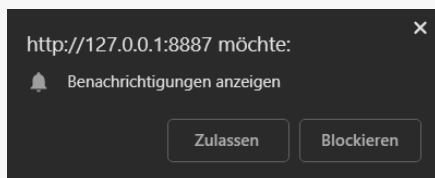
```
function unsubscribeUser() {
    swRegister.onpushnotification()

    .then(function(subscription) {
        if(subscription) {
            return subscription.unsubscribe();
        }
    })

    .catch(function(error) {
        console.log('Error unsubscribing', error);
    })

    .then(function() {
        updateSubscriptionOnServer(null);
        console.log('User is unsubscribed.');
```

Push-Nachrichten müssen erlaubt werden



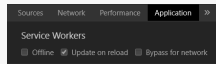
Somit kann der Server nicht ohne Erlaubnis senden und Spam wird verhindert.

Endpoint String

```
{"endpoint": "https://fcm.googleapis.com/fcm/send/eqshnpse1w:APA91BgXY5BwomZHEQ7ChRnyXBF122jKcO9R4rZvY7mpce96S8GACmVshcYqZNAuuvYCC6bcvRbnogHz_DN1AHZYAak31Cmbv-48832pMctF52kq2aIn-PK0L1FaqgLe", "expirationTime": null, "keys": {"p256dh": "tceE0h0Qip1tYBhkp3Q", "auth": "tceE0h0Qip1tYBhkp3Q"}}
```

Mit diesem String kann man Push-Nachrichten an den Server senden

Service Workers



Die Service Workers müssen immer neu geladen werden.

Die Benutzeroberfläche erstellen

```
function initializeUI() {
    pushButton.addEventListener('click', function() {
        pushButton.disabled = true;
        if(isSubscribed) {
            unsubscribeUser();
        } else {
            subscribeUser();
        }
    });

    // Set the initial subscription value
    swRegister.onpushnotification()

    .then(function(subscription) {
        isSubscribed = !
        (subscription === null);
        updateSubscriptionOnServer(subscription);

        if(isSubscribed) {
            console.log('User IS subscribed.');
```

Einen User hinzufügen

```
function subscribeUser() {
    const applicationServerPublicKey = urlBaseToUint8Array(
        applicationServerPublicKey);

    swRegister.onpushnotification({
        useVisibleOnly: true,

        applicationServerPublicKey: applicationServerPublicKey
    })

    .then(function(subscription) {
        console.log('User is subscribed.');
```

Web Server für Chrome

Keys

Public Key
BHG61_3UR5eT3QEHZU8mcfrnltzgr55cExRHavLsp64dPL6-NDEqefHhTfhy07Vb13070AF2wpYgXuoE7Rizo4L8

Private Key
-qefCpy16GX3FcvYFF98qxtDk5XT3C5q2d5rb_Xtupo

<https://web-push-codelab.glitch.me/>
Auf dieser Website kann man die Keys generieren und Push-Nachrichten senden.

Web Server for Chr... 2.00 OK!

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CHOOSE FOLDER Current: /app

Web Server: STARTED

Web Server URL(s)

- <http://127.0.0.1:8887>

Options (needs restart)

- Run in background
- Start on login
- Accessible on local network
- Also on internet
- Prevent computer from sleeping
- Automatically show index.html

Enter Port
8887

[Show Advanced Settings](#)

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Not published yet.

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