

# Split Delivery with Google Workspace

## What is "Split Delivery"?

Split Delivery is a common technique used when two separate Mailservers handle one singular E-Mail Domain.

Example: Mailservers 1 handles `user@domain.com` and Mailservers 2 handles `servicemail@domain.com`

## What is required

- Two separate Mailservers (Google Workspace / G-Suite and Mailcow in this Case)
- Access and Understanding to DNS Records
- Understanding of DKIM/SPF
- Understanding of Mail Routing Policies
- Administrator Access to Mailcow
- Administrator Access to Google Workspace Admin / Google Admin Console

## 1. Mailcow Configuration

1. Open Mailcow Admin UI
2. Go to *System - Configuration*
3. Go to *Options - Forwarding Hosts*
4. Add public Mailservers IPs from Google here
  - `108.177.16.0/24`
  - `108.177.17.0/24`
  - `142.250.220.0/24`
  - `142.250.221.0/24`
  - `2600:1901:101::0/126`
  - `2600:1901:101::4/126`
  - `2600:1901:101::8/126`
  - `2600:1901:101::c/126`
  - `2600:1901:101::10/126`
  - `2600:1901:101::14/126`

- 209.85.128.0/17
- 74.125.0.0/16
- 66.249.80.0/20
- 173.194.0.0/16
- 64.233.160.0/19
- 172.217.0.0/16

## 2. Google Configuration

This Part is in German, English Names might be slightly different

### 2.1 Configure Mailcow Forwarding Host

1. Open Google Admin Console
2. Go to *Apps - Google-Workspace - Gmail*
3. Click *Hosts*
4. Click *Route hinzufügen*
  - Set *Name, Hostname* and *Port* of your second Mailserver to which E-Mails will be forwarded to
  - Enable TLS requirements and Host check. While not necessary, it is recommended

### 2.2 Configure Mail List

This Step creates a fixed List of Mail Addresses that will be forwarded. Will this is not strictly necessary, its a absolute way to make sure they're being forwarded

1. Open Google Admin Console
2. Go to *Apps - Google-Workspace - Gmail*
3. Click *Routing*
4. Click *Adresslisten verwalten*
5. Click *Adressliste hinzufügen*
  - Add all your Mail-Addresses
  - Uncheck *Authentifizierung erforderlich*

### 2.3 Add Route to Google

1. Open Google Admin Console
2. Go to *Apps - Google-Workspace - Gmail*
3. Click *Routing*
4. Click *Routing-Regel hinzufügen*
  1. Set Name
  2. Select *Eingehend* and *Intern - Empfangen*

3. (Optional) Enable *Benutzerdefinierten Betreff voranstellen* and add [G-SUITE-RELAY]
4. Enable *Route ändern* and select your Mailserver Host created in 2.1
5. Click *Optionen einblenden*
6. Select *Unbekannte/Catchall Konten*

## 3. DNS Configuration

### 3.1 Add Google Mailserver' MX-Records

Based on Hetzner DNS

Record Type	Domain	Value	Priority
MX	@	aspmx.l.google.com.	1
MX	@	alt1.aspmx.l.google.com.	5
MX	@	alt2.aspmx.l.google.com.	5
MX	@	alt4.aspmx.l.google.com.	10
MX	@	alt3.aspmx.l.google.com.	10

### 3.2 Add SPF/DKIM Records

#### 3.2.1 DKIM

1. Open Google Admin Console
2. Go to *Apps - Google-Workspace - Gmail*
3. Click *E-Mail authentifizieren*
4. Select your Mail Domain

Record Type	Domain	Value from Google
TXT	google._domainkey	v=DKIM1; k=rsa;....

#### 3.2.2 SPF

You should edit your existing SPF Record from Mailcow, do not create a new one!

```
v=spf1 include:_spf.google.com ip4:<mailserver-ip> -all
```

`include:_spf.google.com` is the important part here. You simply include the SPF Configuration from Google

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