

# **EmID**

## Web Authentication by Email Address

**Ben Adida**  
**Harvard**

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# OpenID

```
<link  
rel="openid.server"  
href="IDprovider.com" />
```

`http://alice.com`

**blog.com**

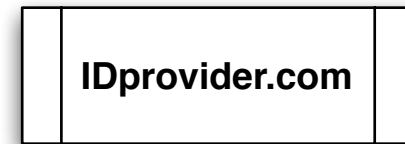
**IDprovider.com**

Alice's  
Browser

# OpenID

```
<link  
rel="openid.server"  
href="IDprovider.com" />
```

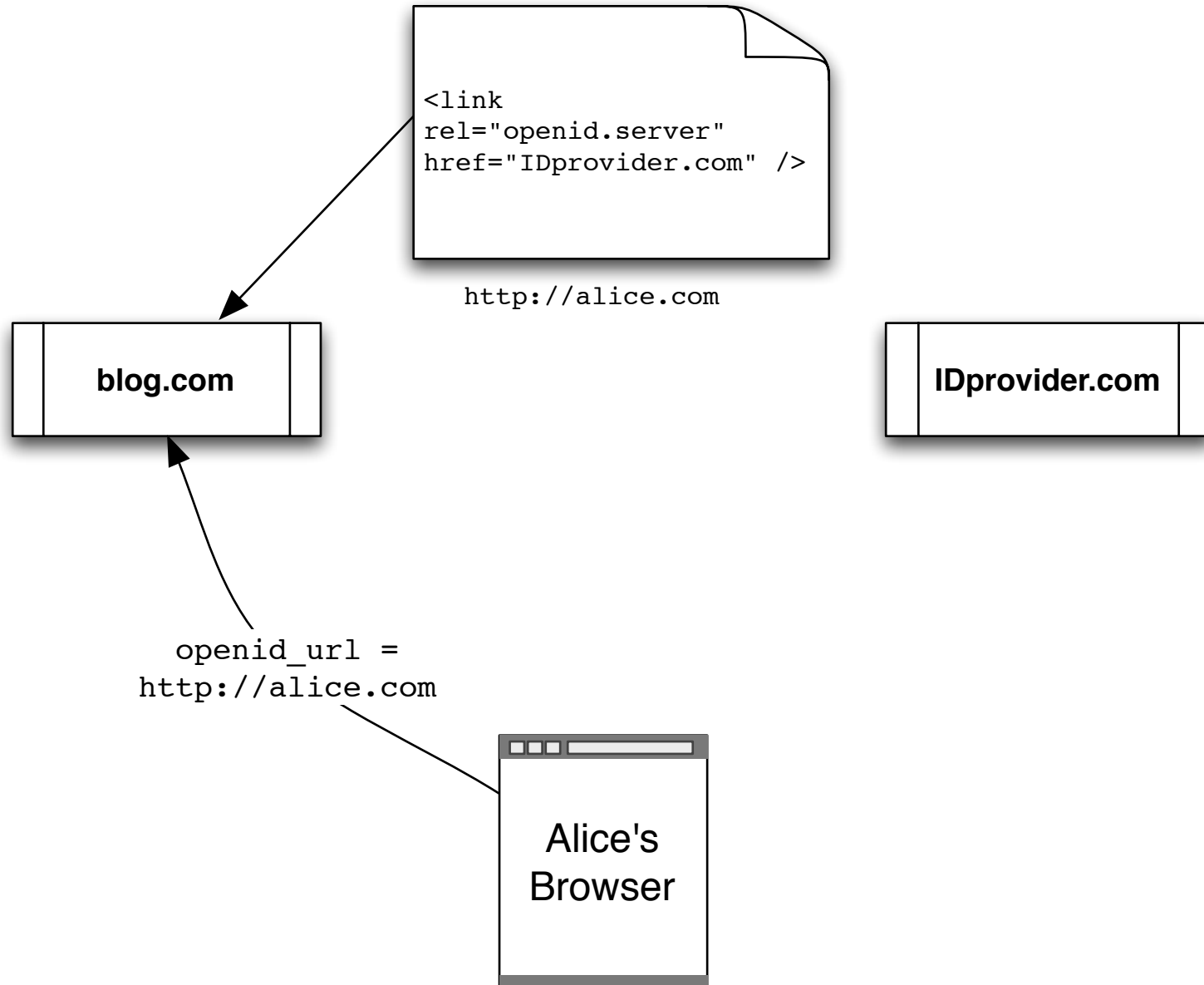
`http://alice.com`



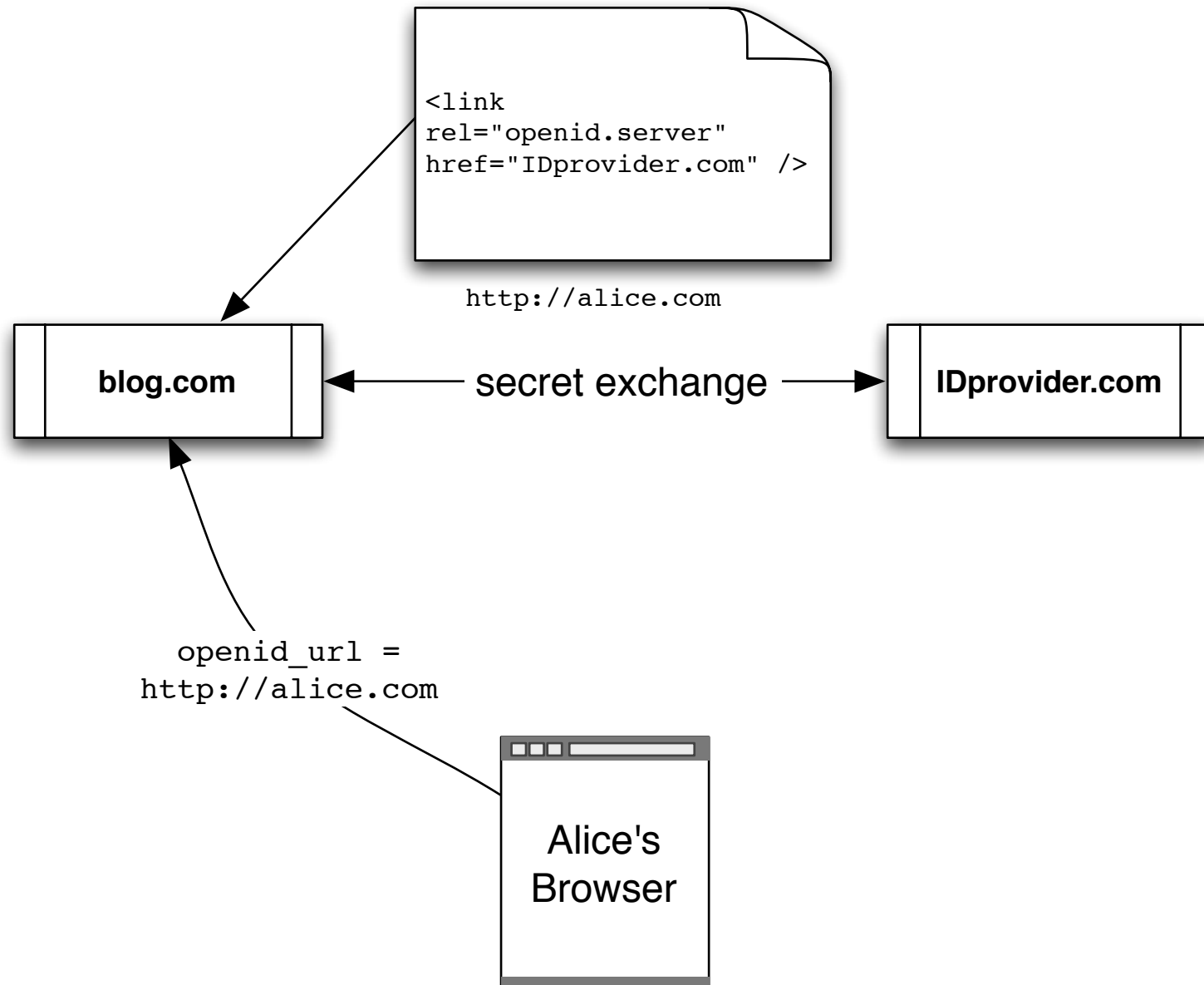
`openid_url =  
http://alice.com`



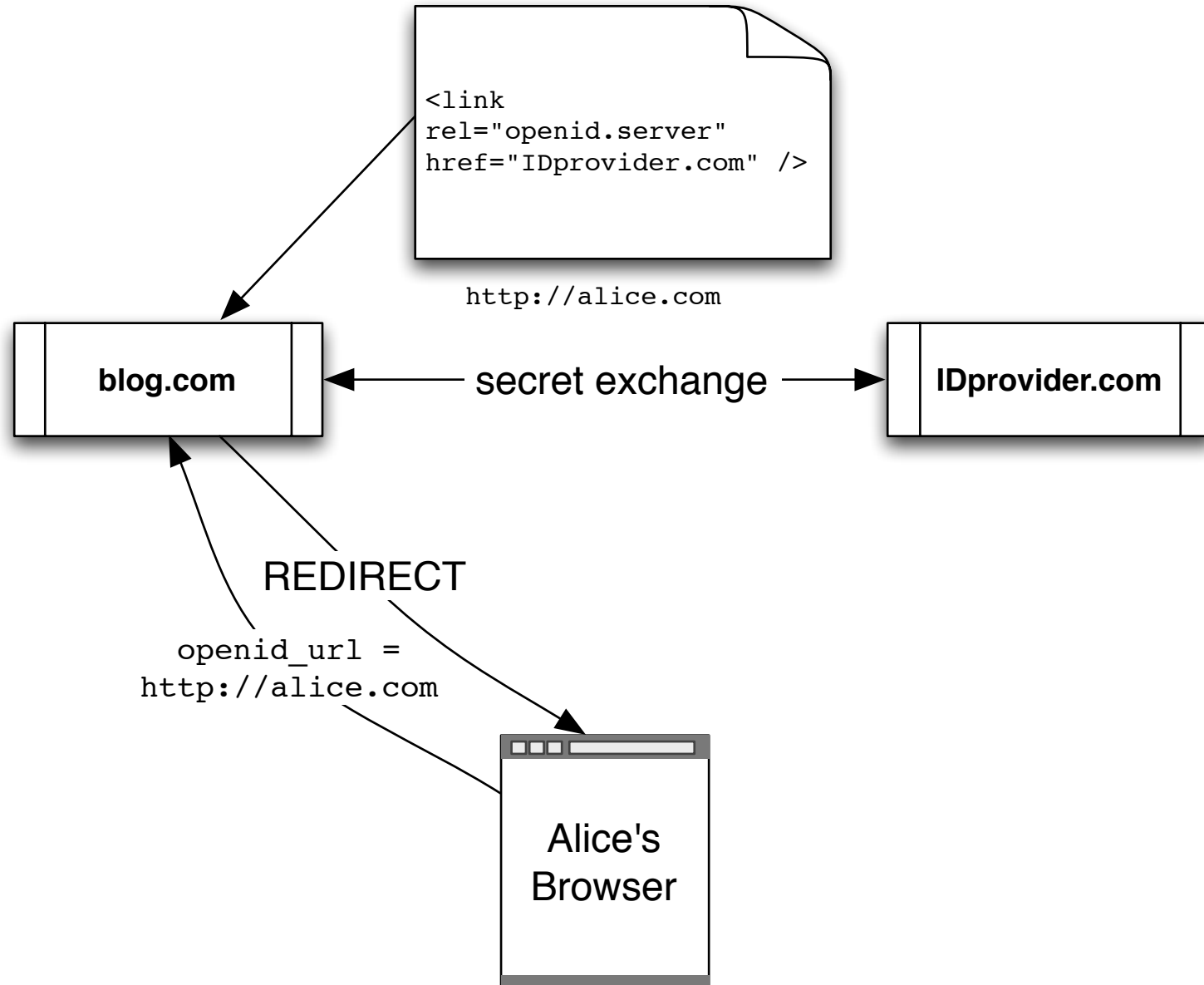
# OpenID



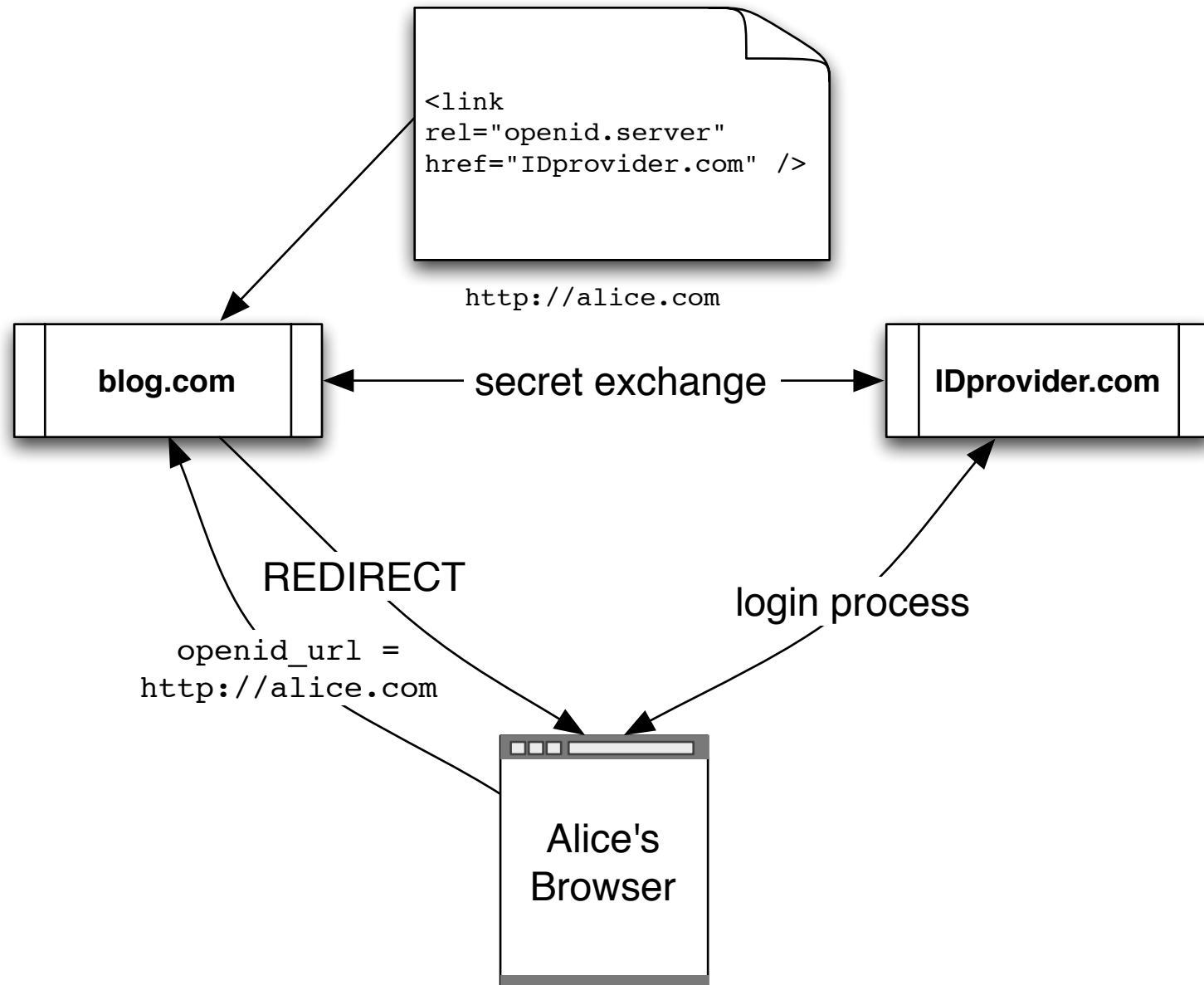
# OpenID



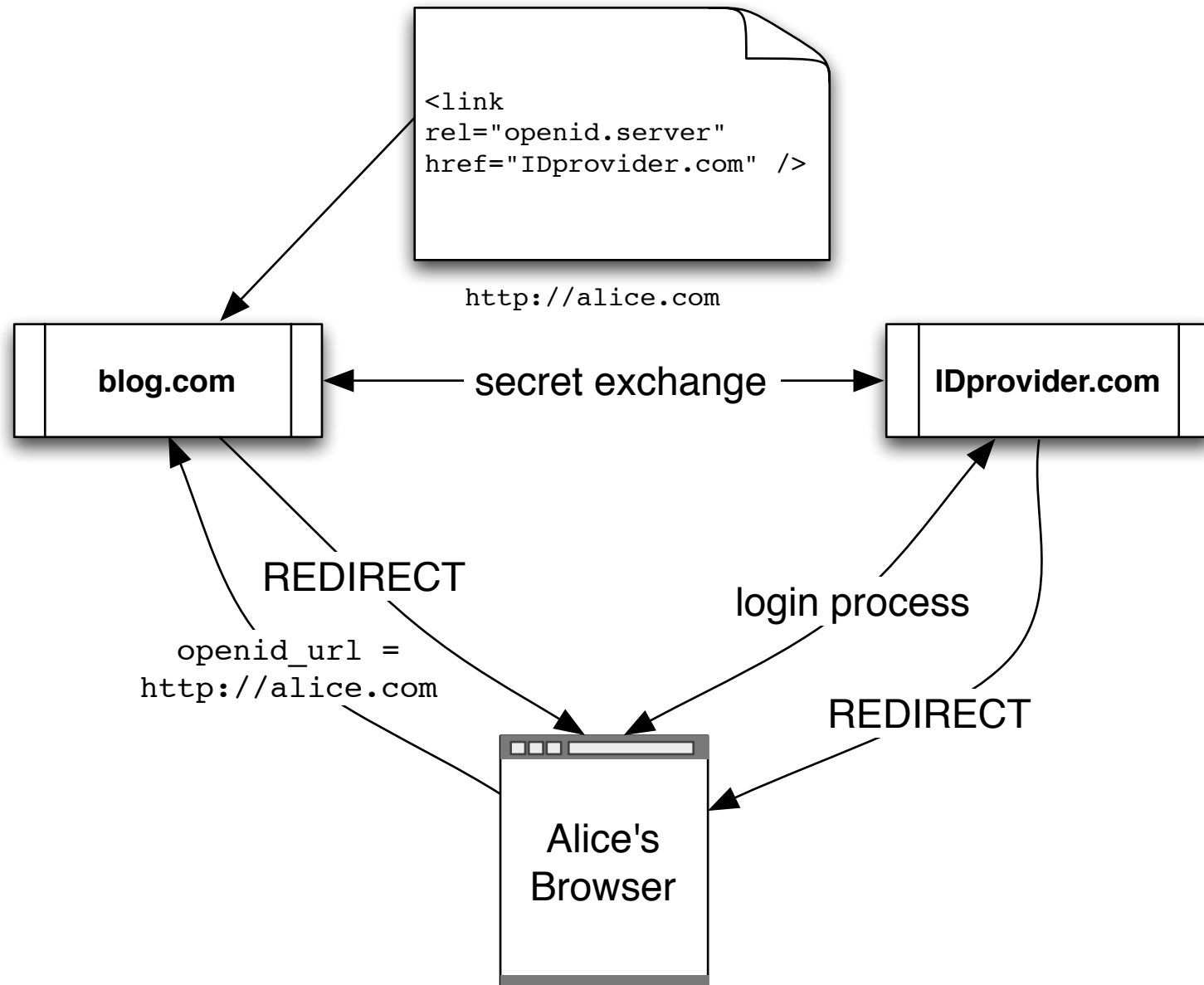
# OpenID



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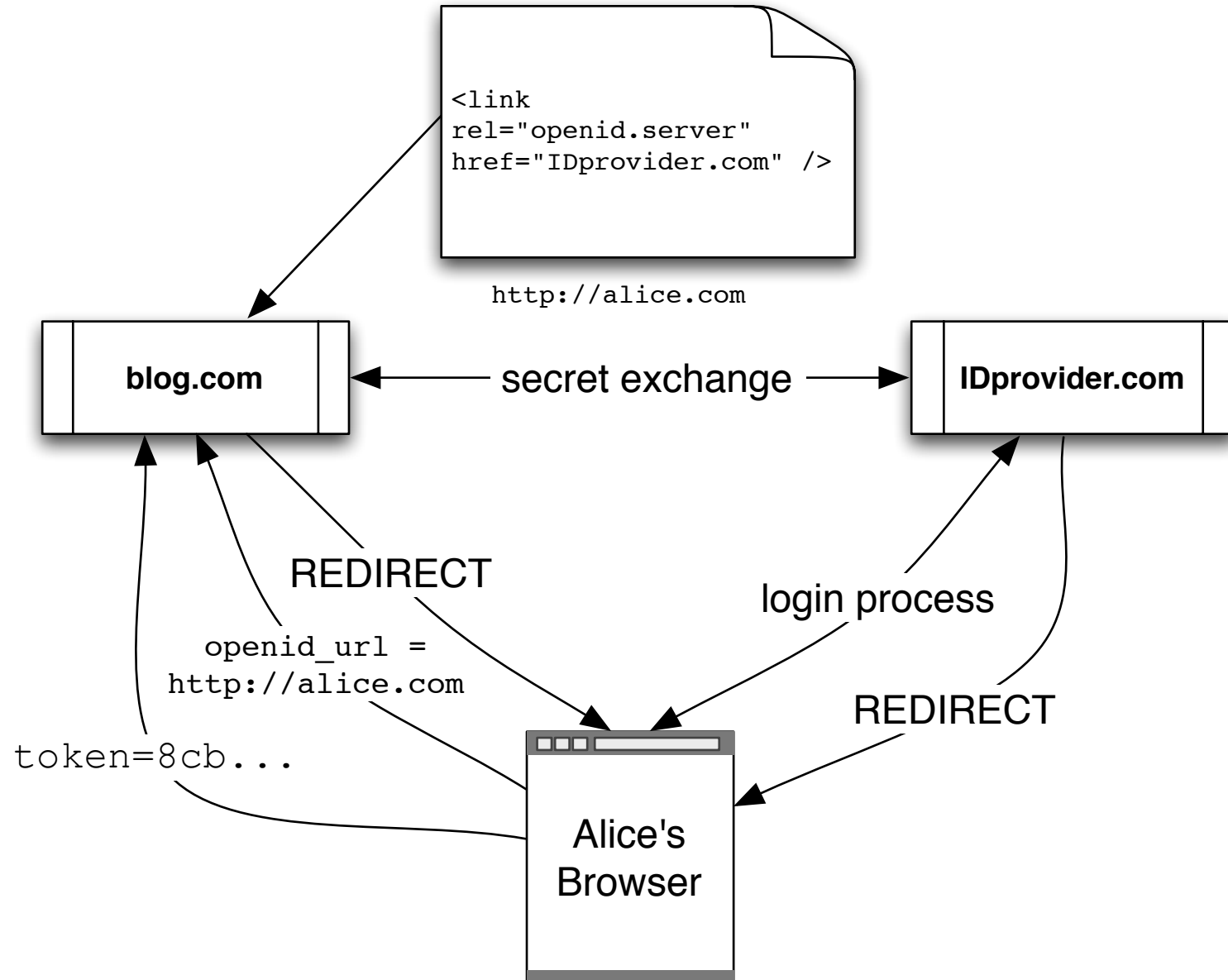


# OpenID

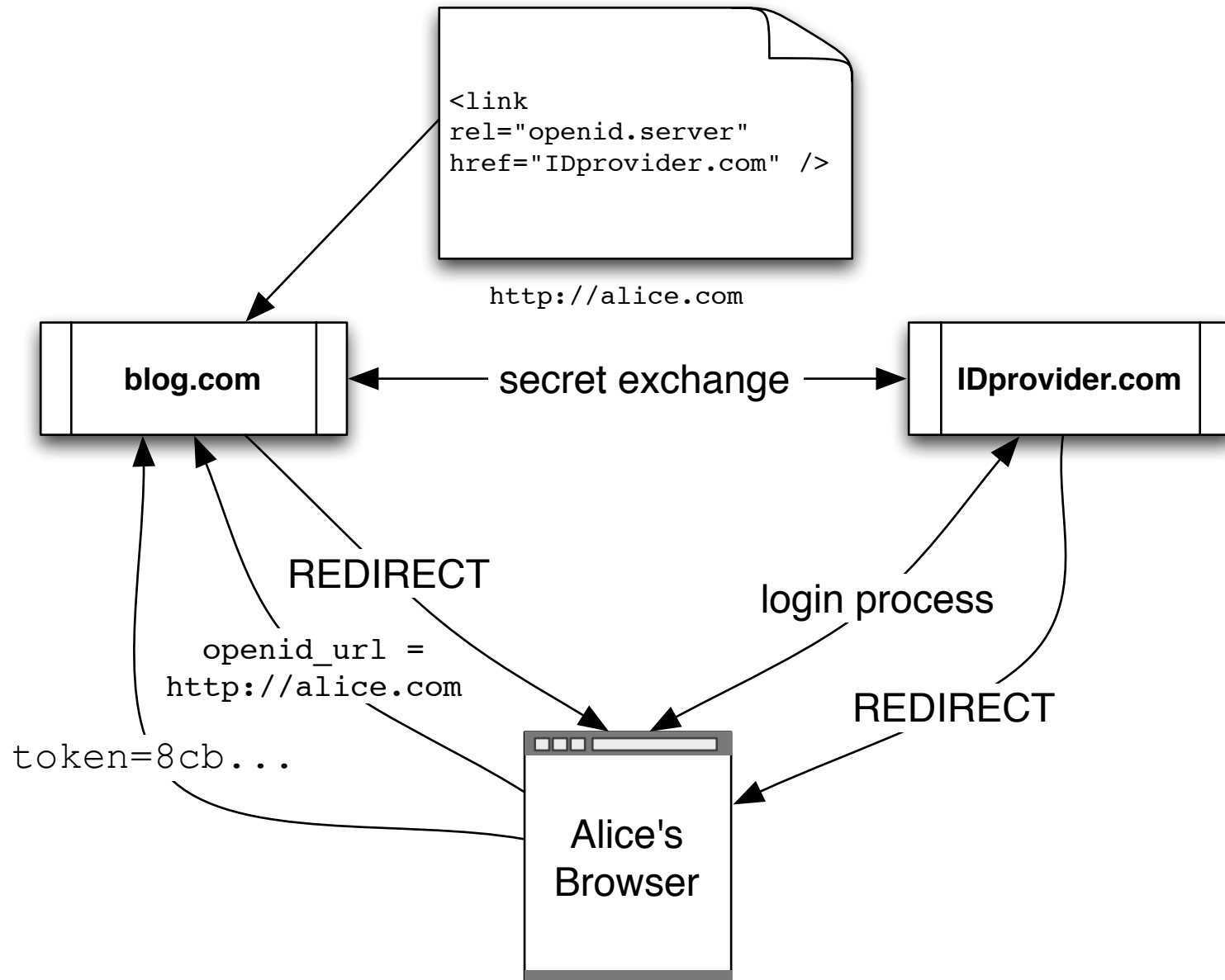




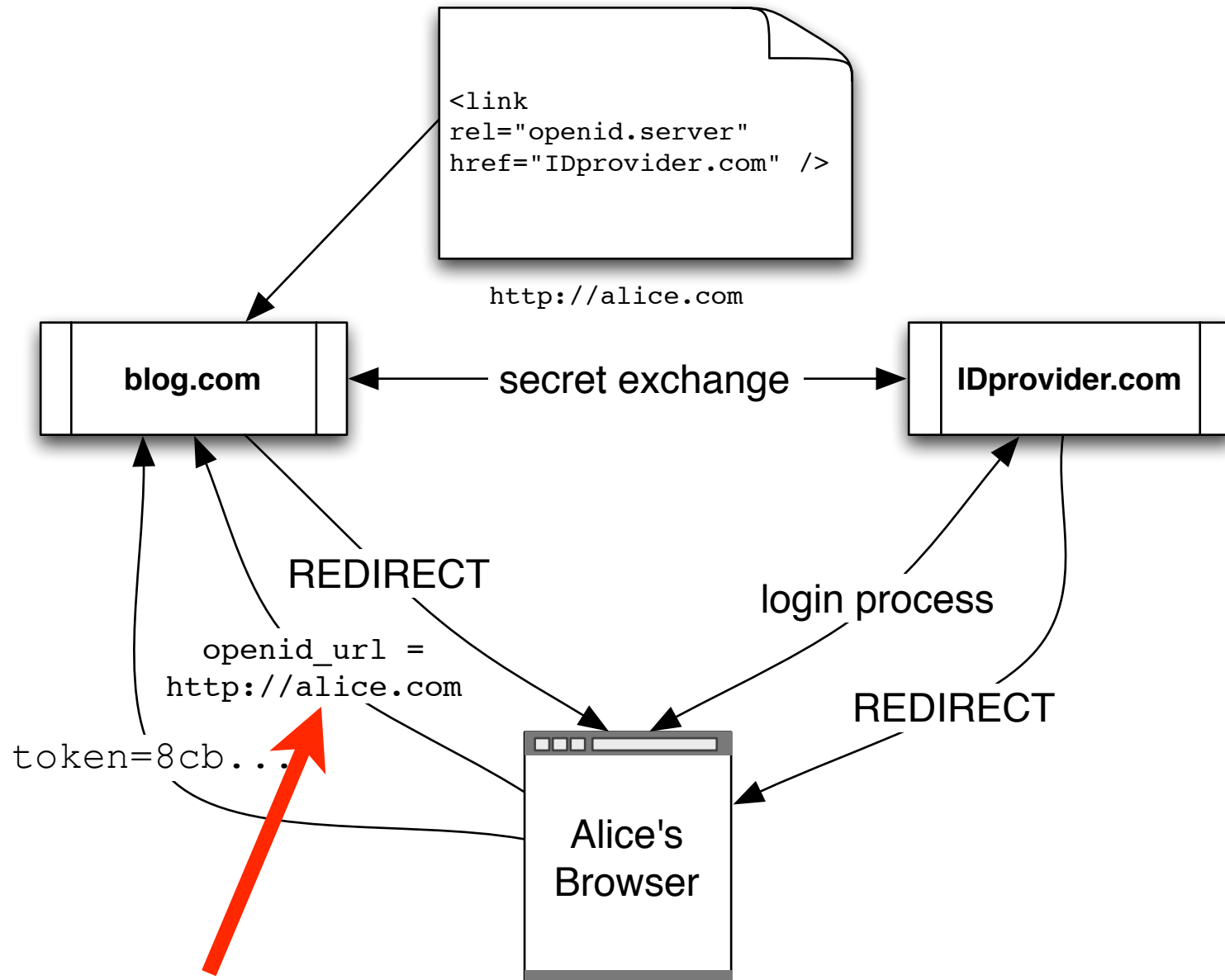
# OpenID



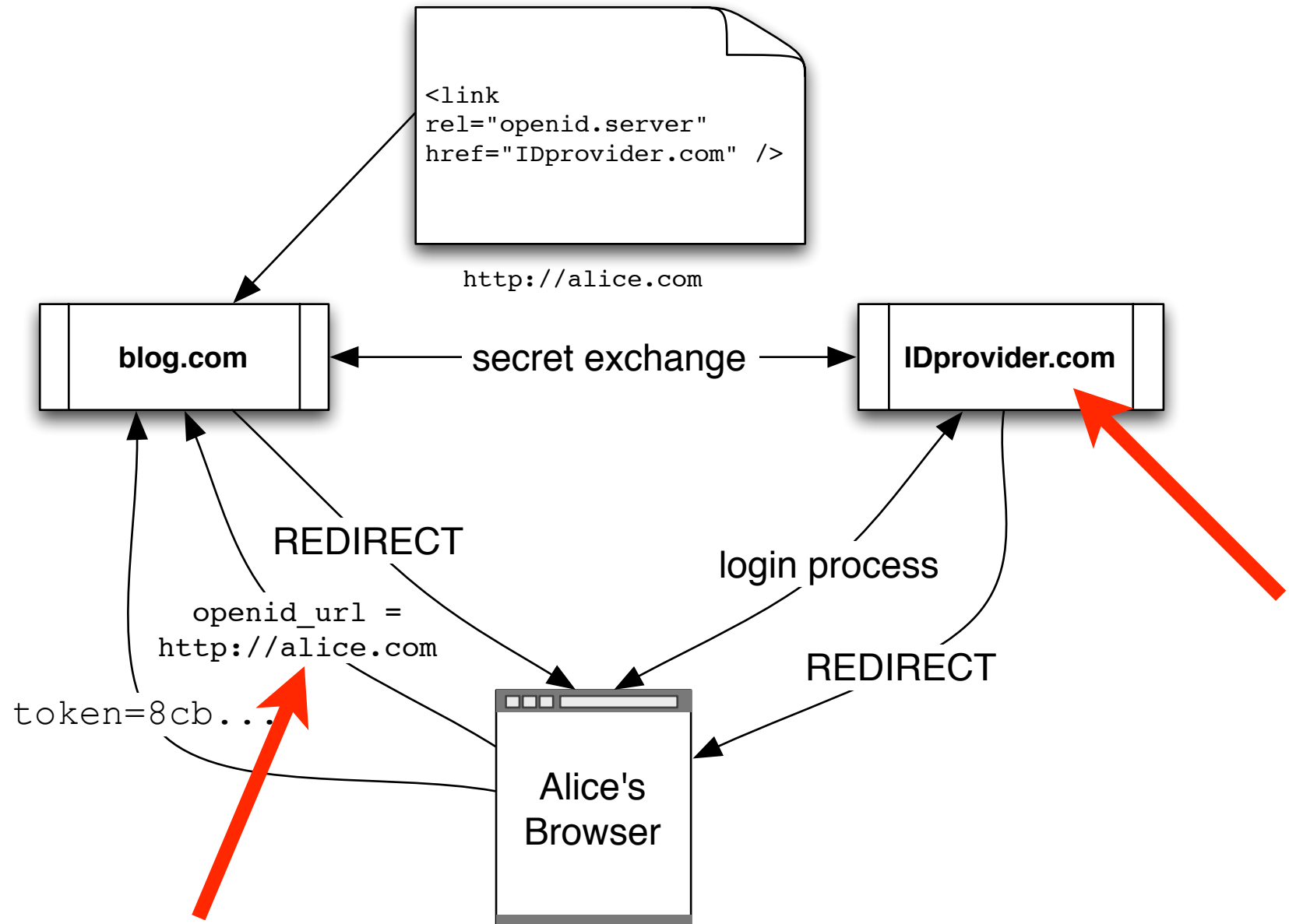
# OpenID Issues



# OpenID Issues



# OpenID Issues



# Bifurcated Login



Username:

Password:

[\(I forgot my password/username\)](#)

Remember me on this computer


Sign in

Login with an OpenID



# They'll ask for your email anyways.


## Your user settings



[Change photo](#)


Full name

Email address

 OpenID  
 [\(Use username/password instead\)](#)

# They'll ask for your email anyways.


**Your user settings**



[Change photo](#)

Full name

Email address

 OpenID  
 [\(Use username/password instead\)](#)

because messaging is a core function  
for most web sites.

# Let's use Email Addresses

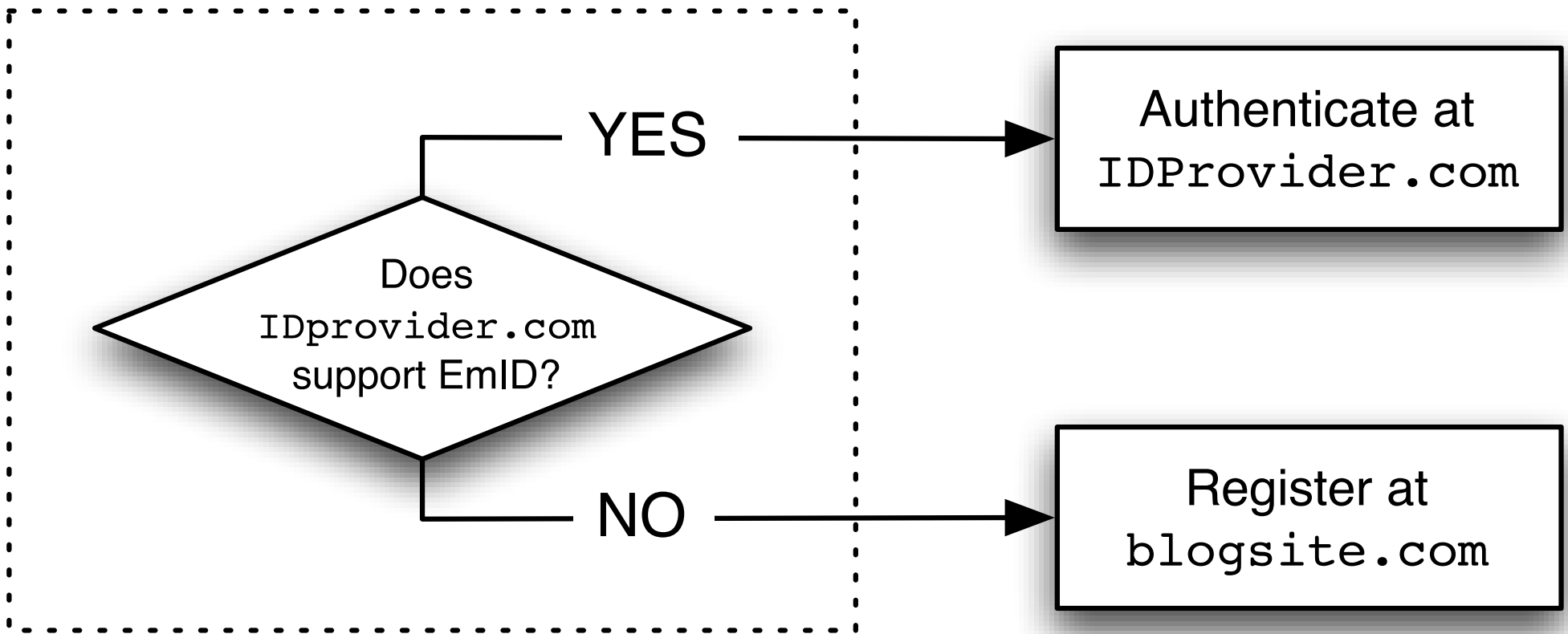
blogsite.com

Your Email Address:

**alice@IDprovider.com**

Continue

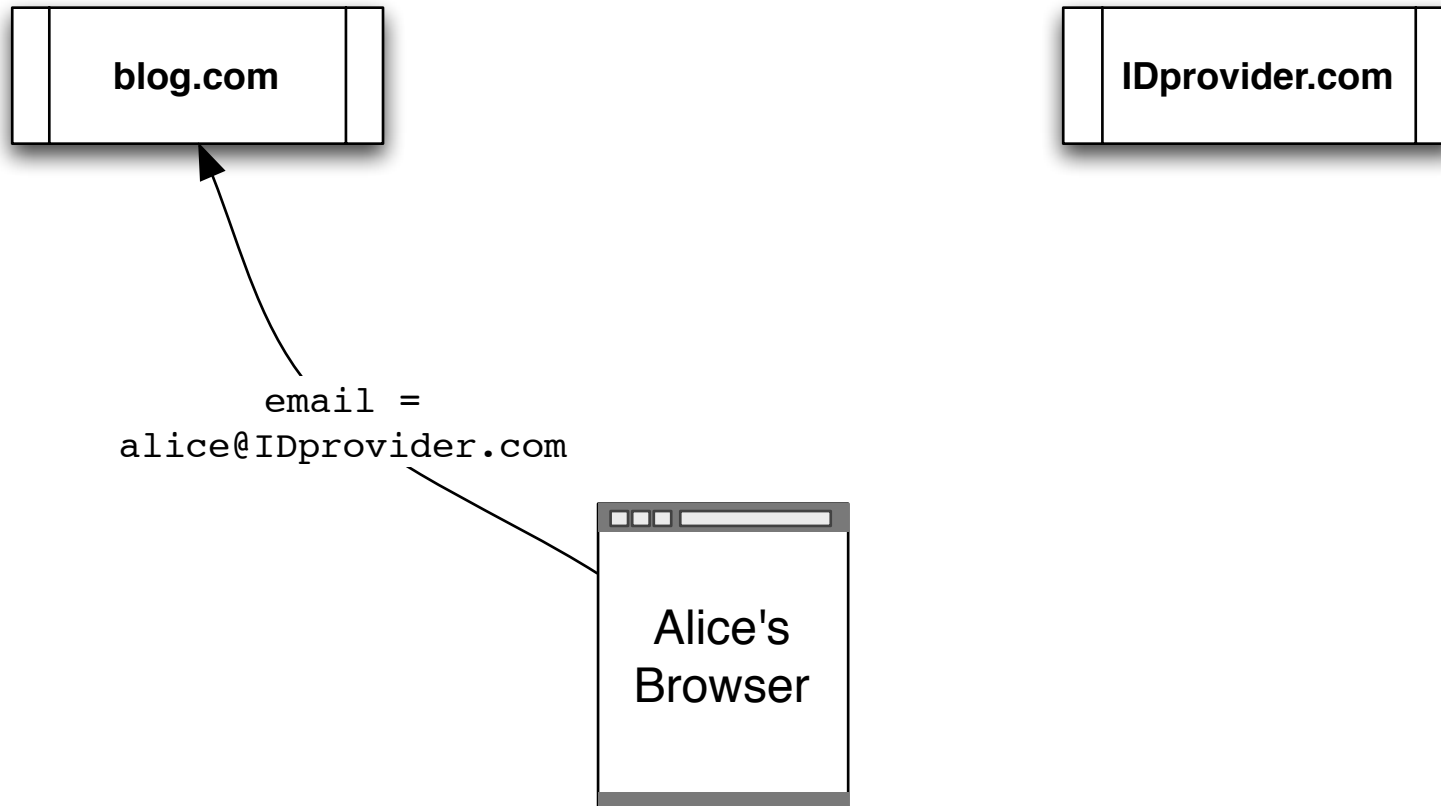




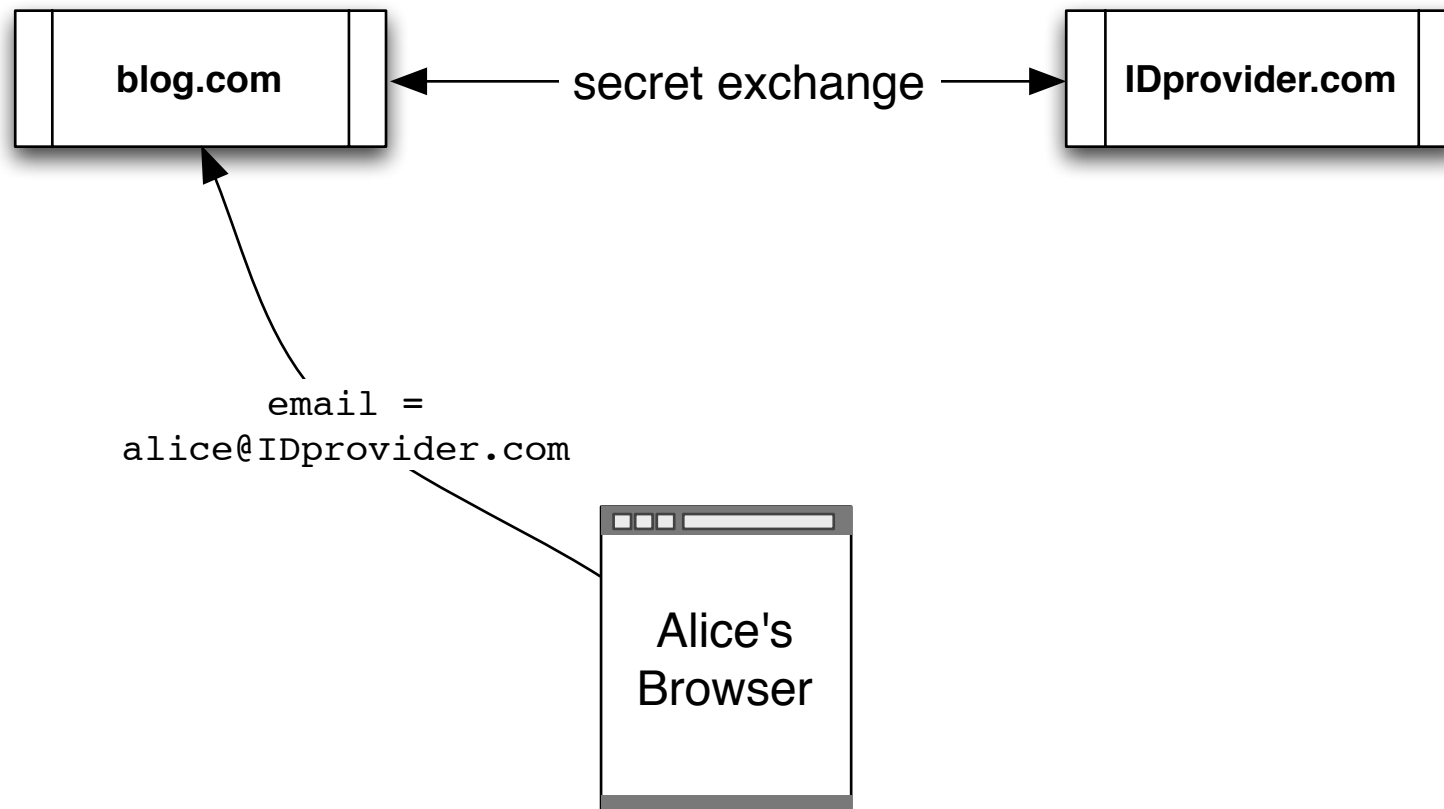
# EmID Process



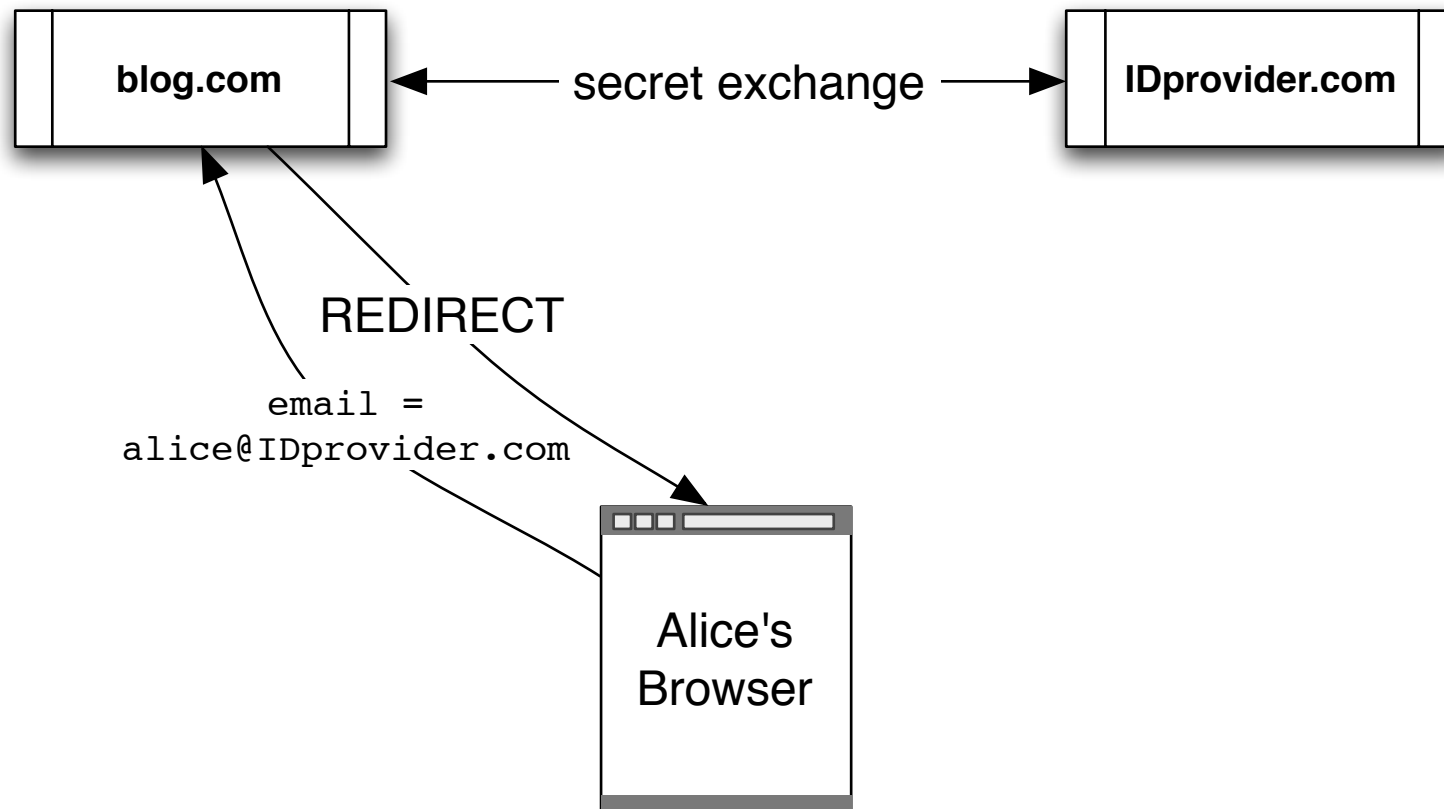
# EmID Process



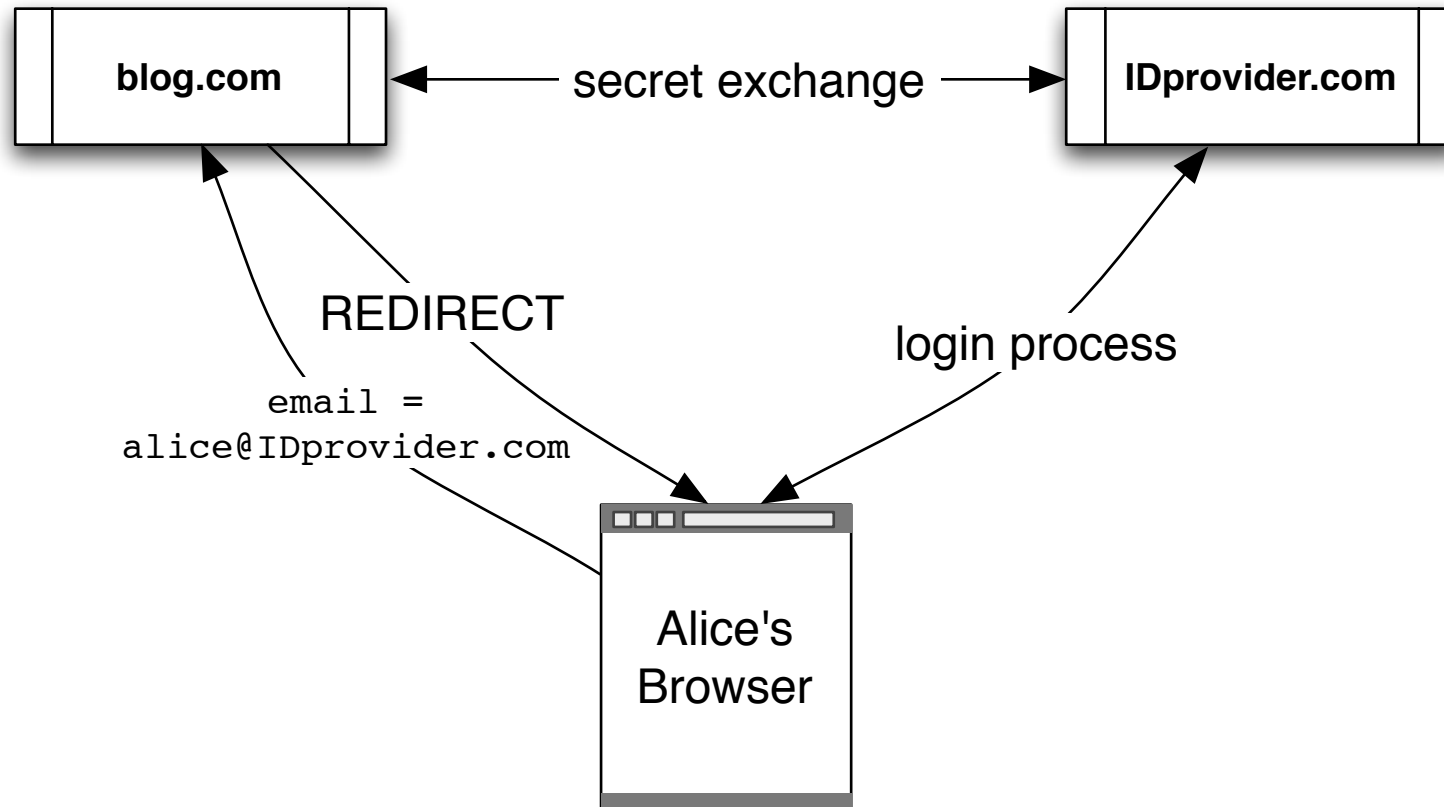
# EmID Process



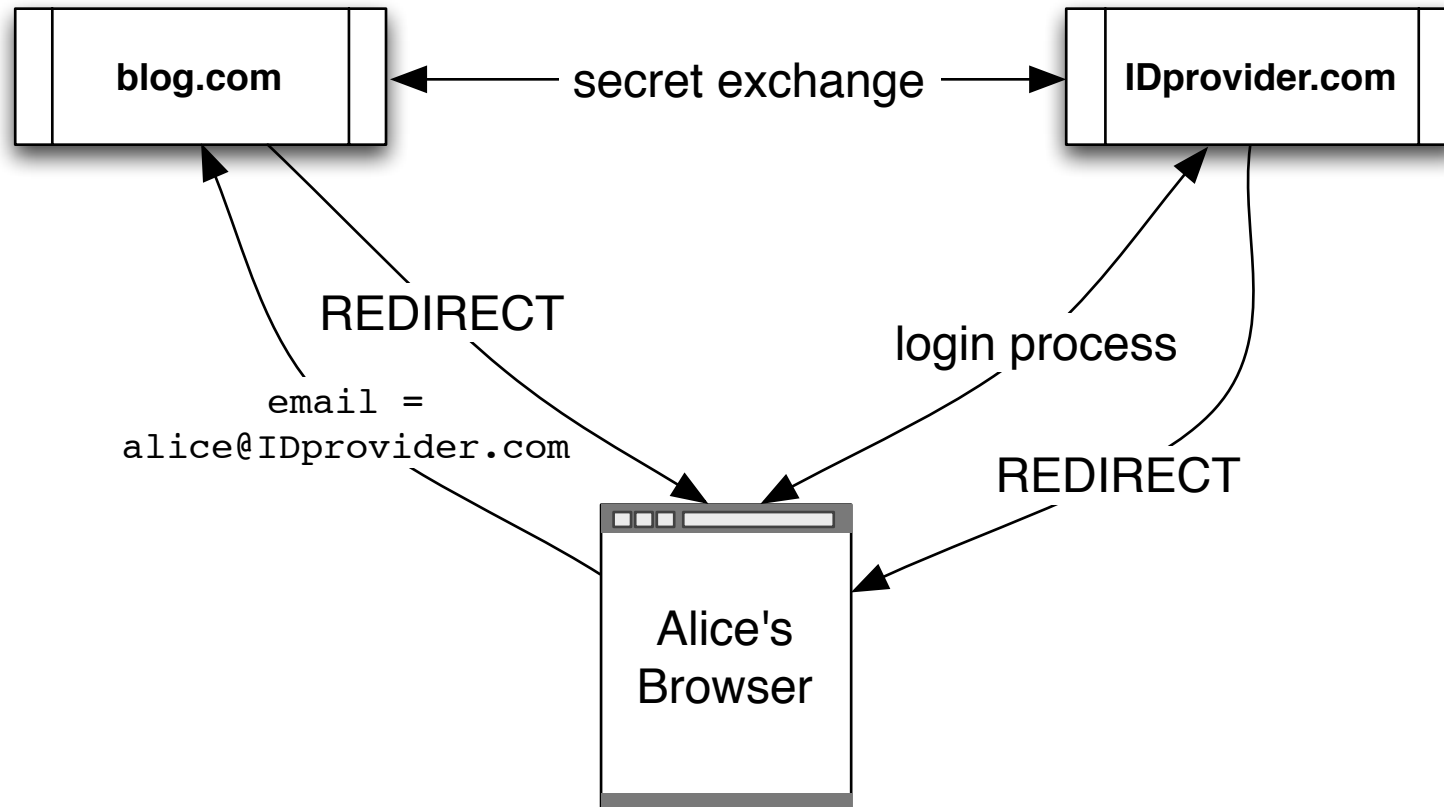
# EmID Process



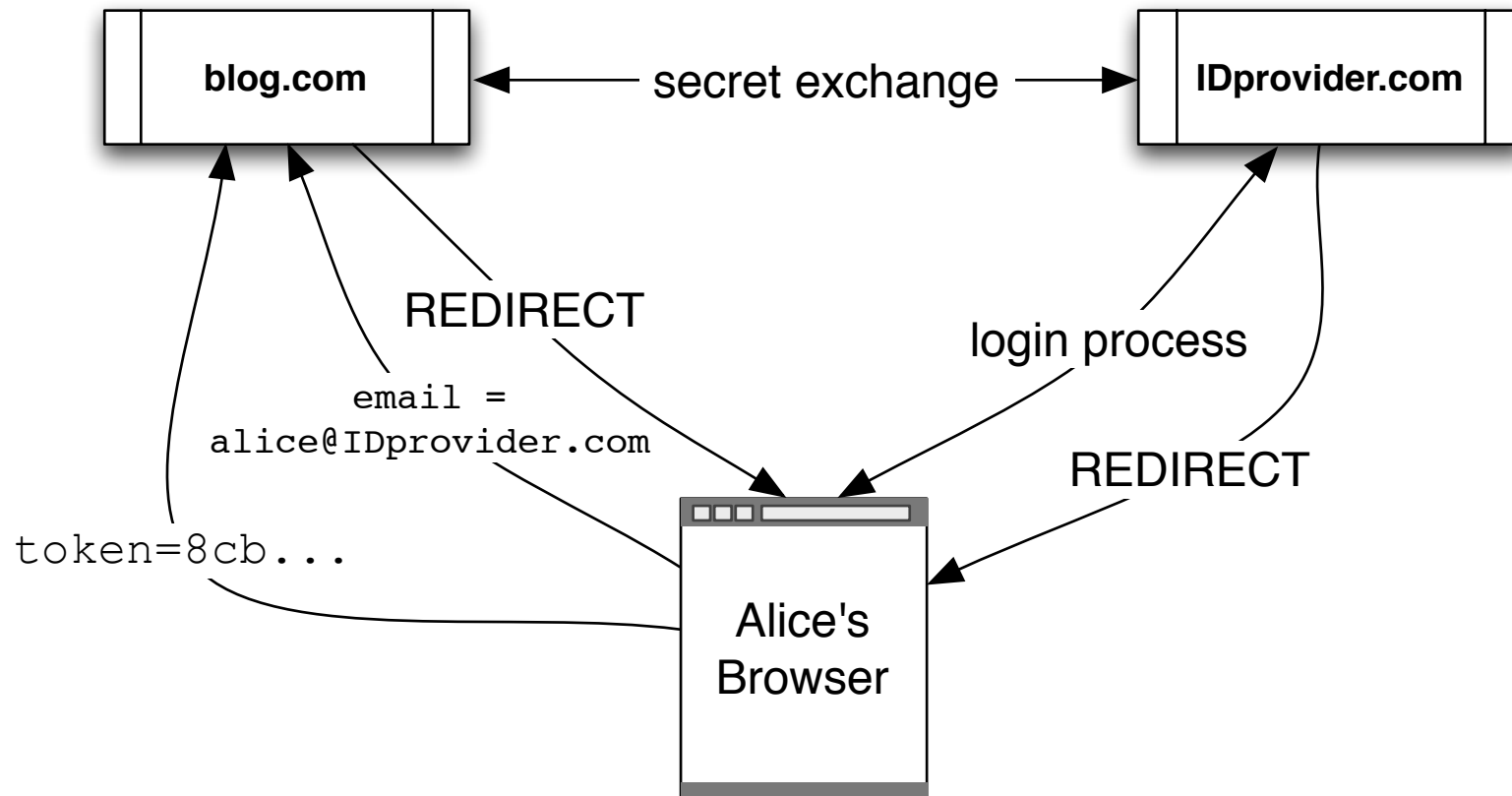
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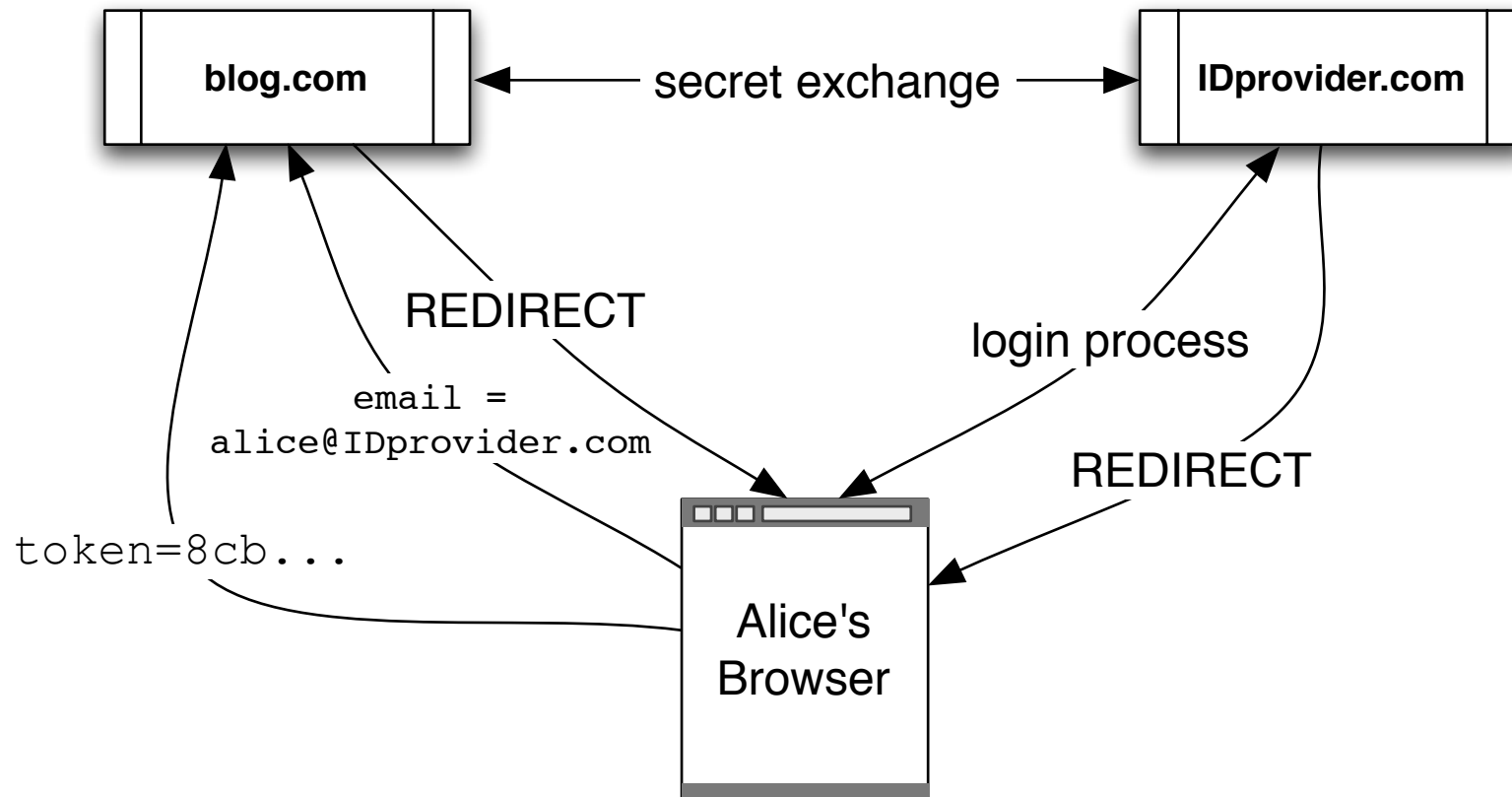


# EmID Process





# EmID Process



One less layer of indirection  
Probably a good thing for the user

# EmID advantages

- Existing practice (Google accounts = email).
- Email servers are already trusted (mailback).
- Gradual adoption & easy user migration.
- Messaging, now and later.

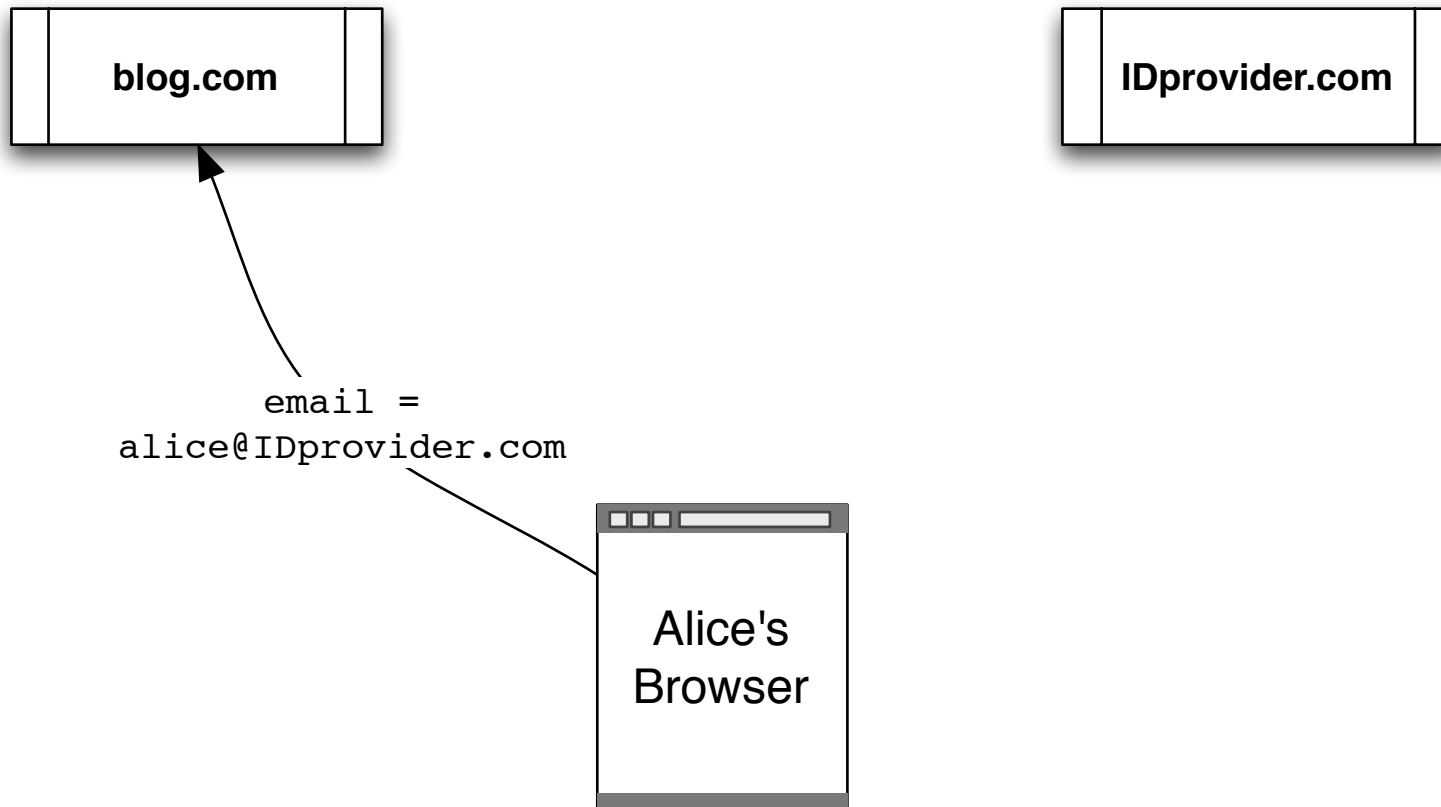
# EmID Issues

- doesn't help the OpenID phishing problem
- may make DNS a further target
- tweak in user experience

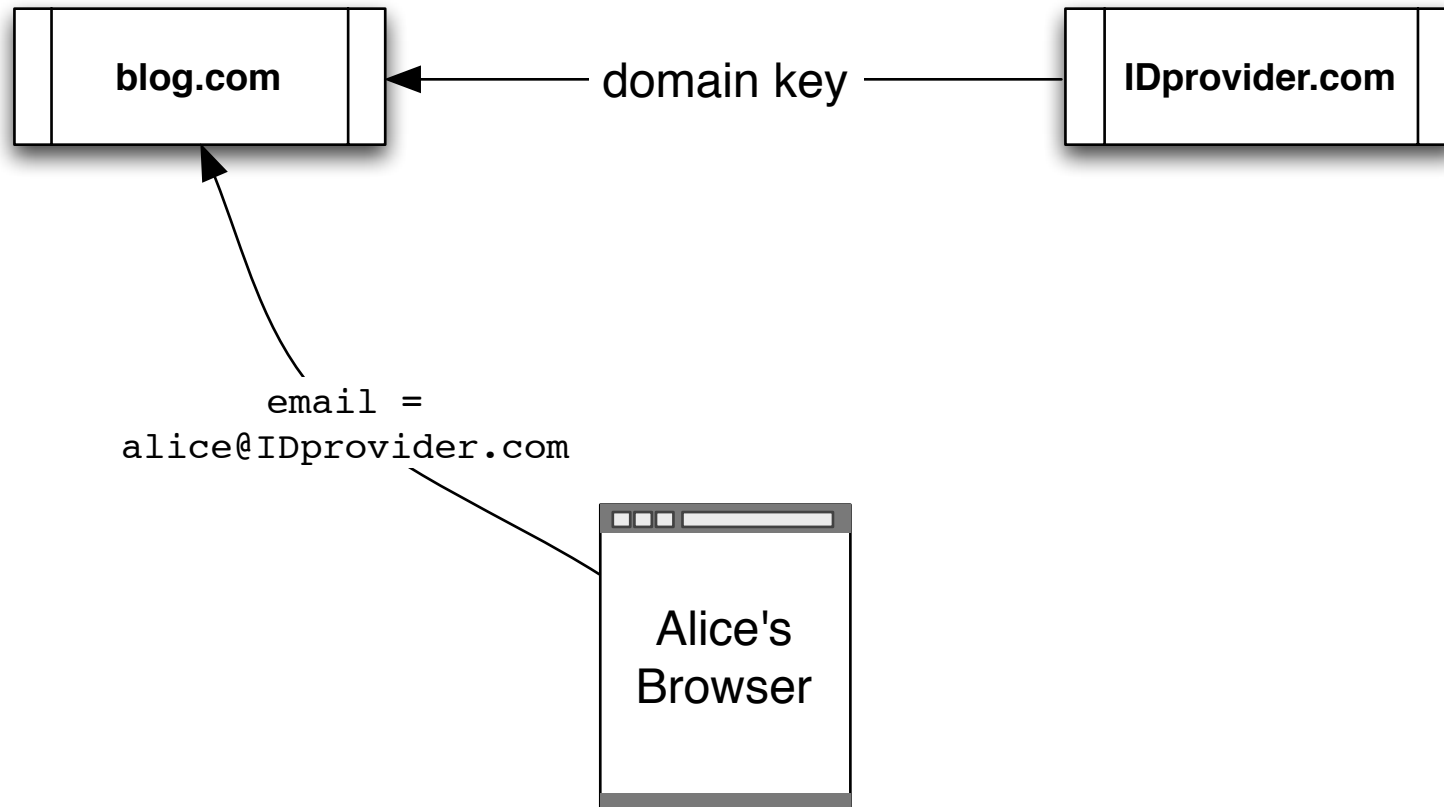
# EmID v2 Process



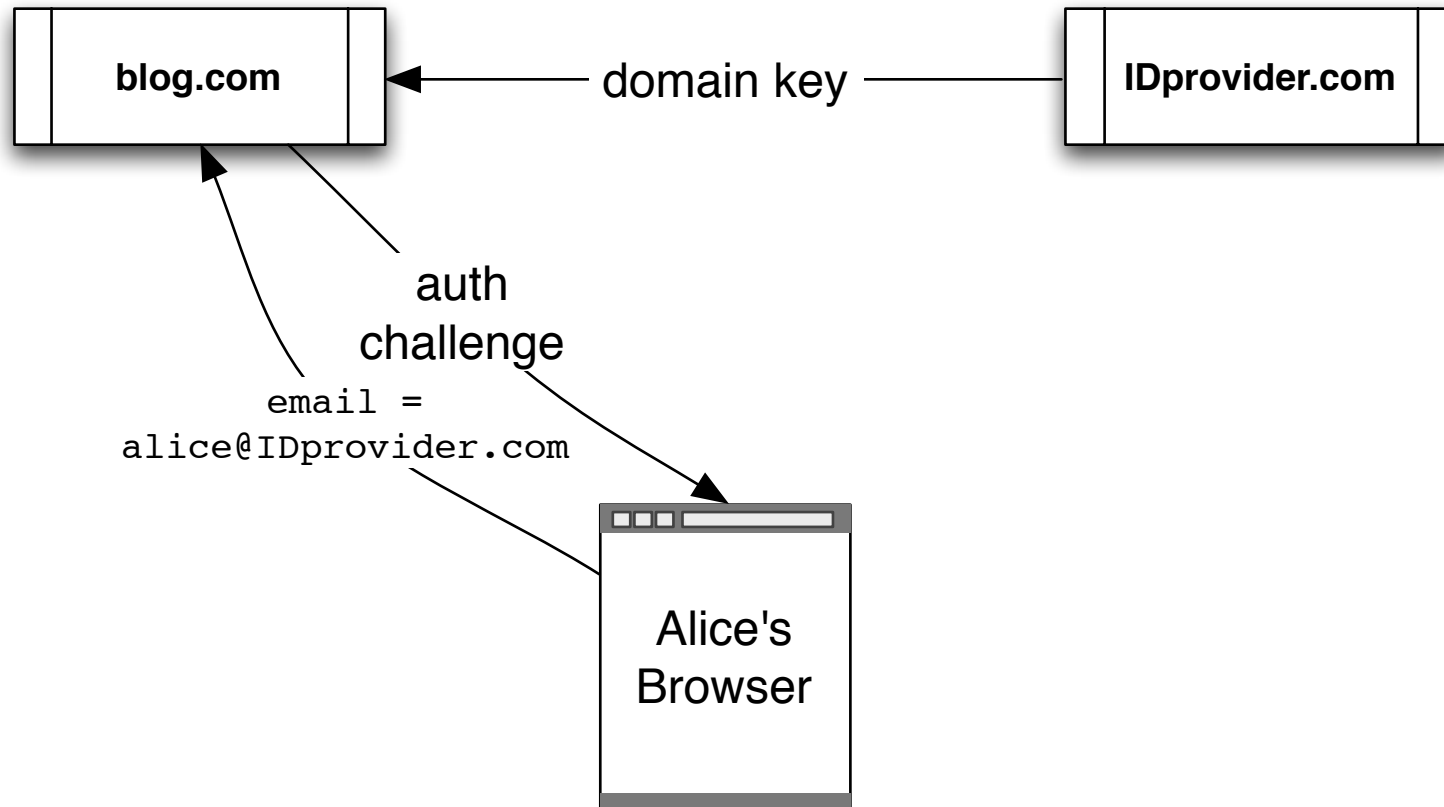
# EmID v2 Process



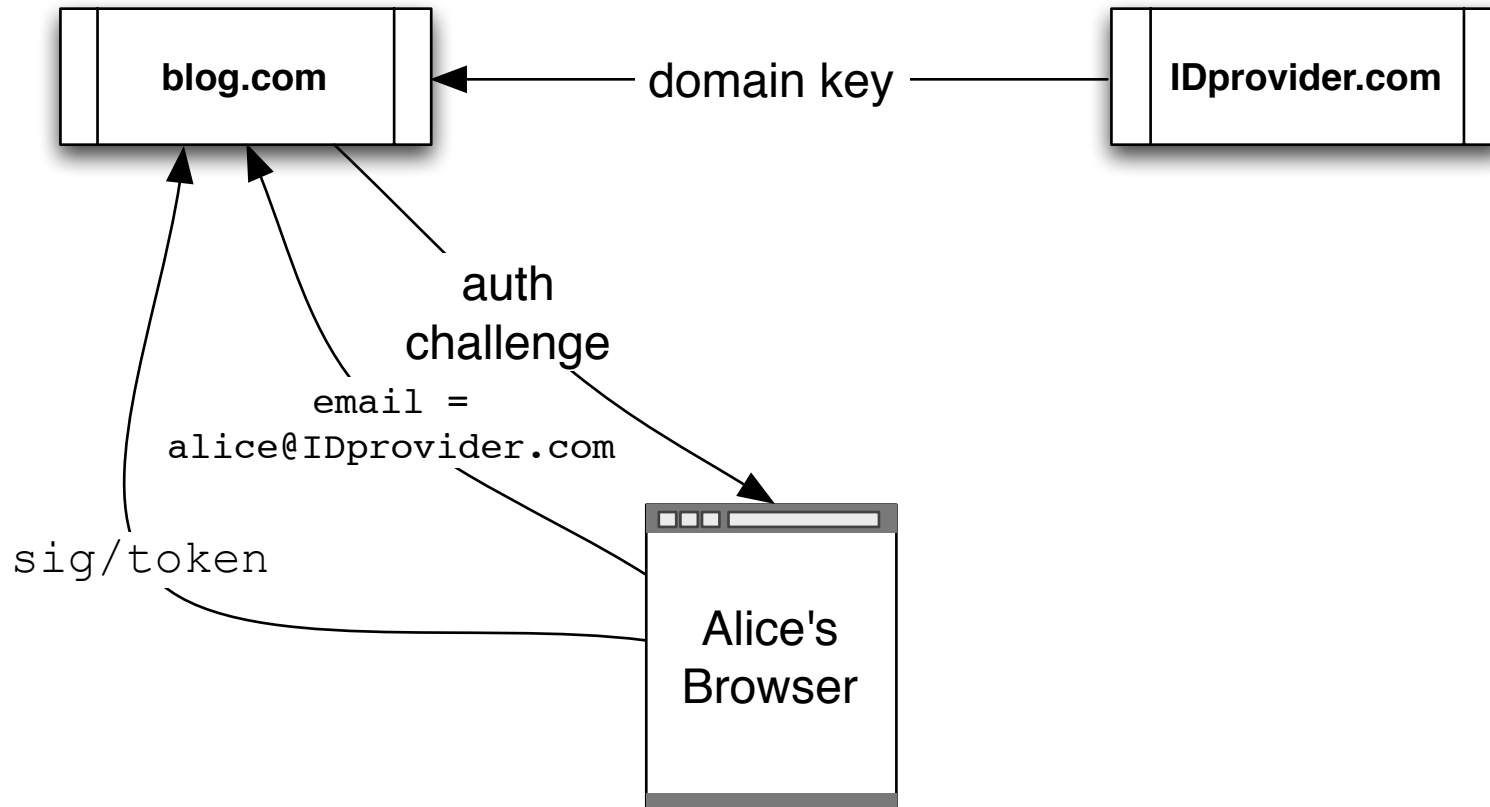
# EmID v2 Process



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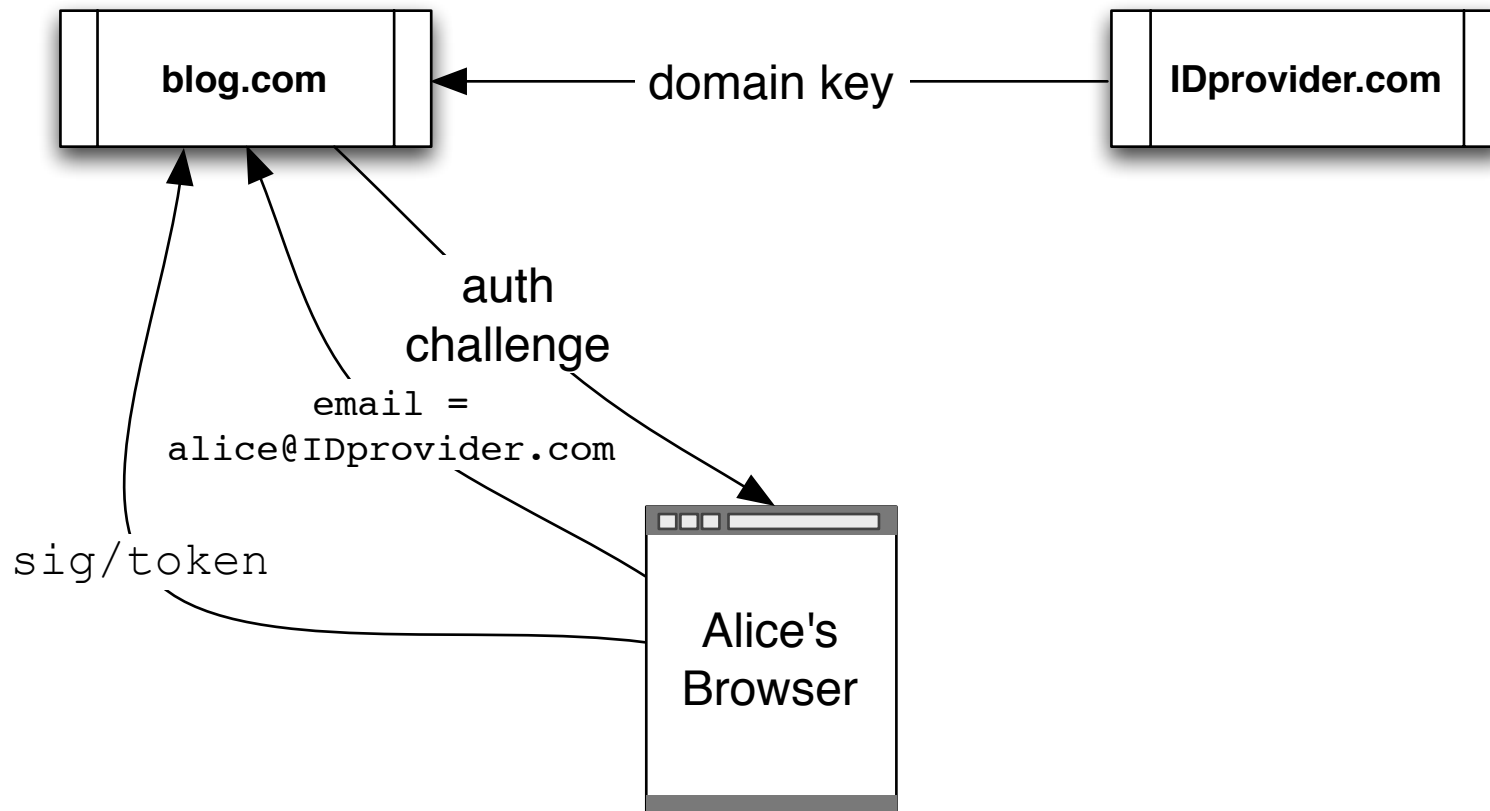


# EmID v2 Process

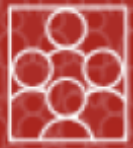




# EmID v2 Process



IDprovider not involved in details of auth.



# Questions?

[ben\\_adida@harvard.edu](mailto:ben_adida@harvard.edu)

<http://ben.adida.net/>