

DKIM Setup Guidelines for EvaluationKIT Clients, v1.0

What is DKIM?

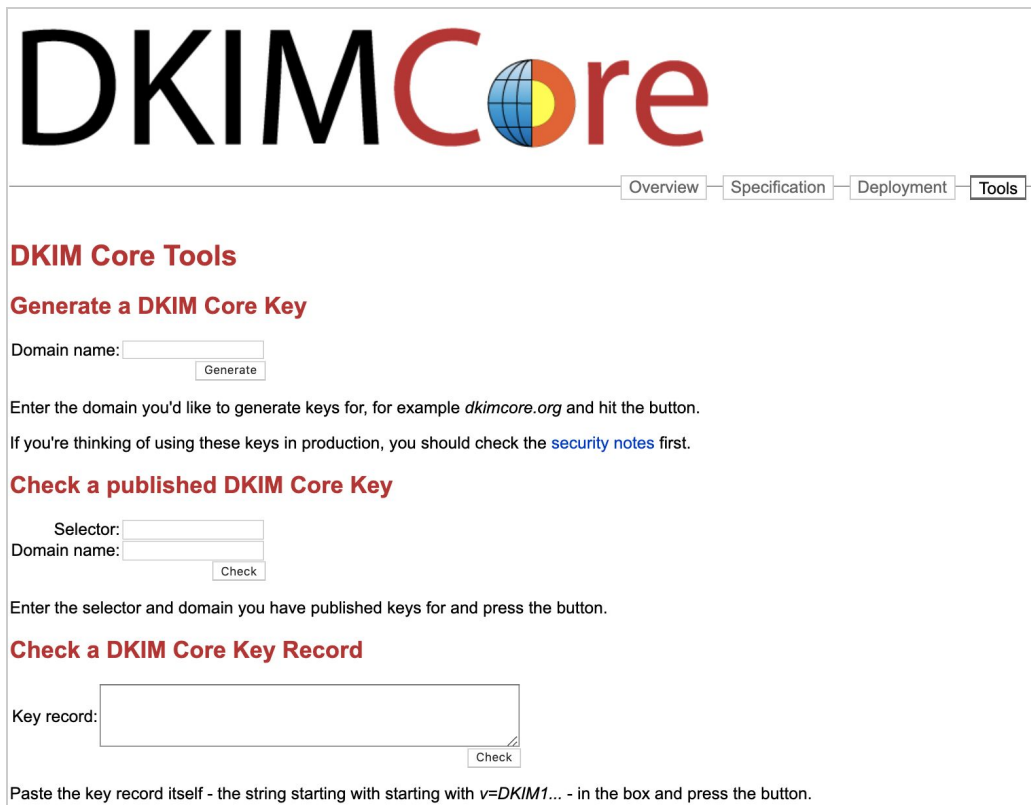
DKIM, or DomainKeys Identified Email, is free technology that is used to prevent spoofing of outgoing email messages ***from your domain*** by adding an encrypted signature using a private domain key that is then validated on the receiving email server using a public key that resides in your DNS. The authentication prevents someone from intercepting your email and altering the content, making the message appear to have originated from someone or somewhere other than the actual source.

With DKIM you are verifying the sender and validating the “from” email address that is tied to that email domain.

Generating Public and Private Keys

In order to set up DKIM in EvaluationKIT, you must first generate private and public keys for your domain. There are several tools online but here is one suggested tool to start:

<https://dkimcore.org/tools/>



The screenshot shows the DKIM Core website interface. At the top, the logo "DKIMCore" is displayed, with "DKIM" in black and "Core" in red, where the "o" is a globe. Below the logo is a navigation menu with tabs for "Overview", "Specification", "Deployment", and "Tools", with "Tools" being the active tab. The main content area is titled "DKIM Core Tools" and contains three sections:

- Generate a DKIM Core Key**: This section has a "Domain name:" input field and a "Generate" button. Below it, there is explanatory text: "Enter the domain you'd like to generate keys for, for example *dkimcore.org* and hit the button. If you're thinking of using these keys in production, you should check the [security notes](#) first."
- Check a published DKIM Core Key**: This section has a "Selector:" input field, a "Domain name:" input field, and a "Check" button. Below it, there is explanatory text: "Enter the selector and domain you have published keys for and press the button."
- Check a DKIM Core Key Record**: This section has a "Key record:" input field and a "Check" button. Below it, there is explanatory text: "Paste the key record itself - the string starting with starting with *v=DKIM1...* - in the box and press the button."

Enter **your** domain name (not the EvaluationKit server name) and click ‘Generate’.

Be sure to copy and paste the entire private key into your EvaluationKIT email settings and the entire public key into your DNS.

Sample illustration only

Generated at Thu Apr 16 13:03:41 2020 for selector 1587067421.evaluationkit

You can bookmark this page and all your keys will be kept here (for at least a month, probably forever).

Private key

This is the private key that needs to be entered into your DKIM signer. It must be kept secret - anyone with access to it can stamp tokens pretending to be you.

```
-----BEGIN RSA PRIVATE KEY-----
MIICXgIBAAKBgQCwkJt+M31IjXciSwYE4soSNi6iyebkL7S5413xM116saQ2OqI/
rCKQetudCb/VZF6CTRifGvYlhv3lfgvxvfiKNSDhqaHf5id0w1EtEpRp8cZbOui
BC2+eaP/q5ulcJUBHszkDoHk38svAyQ1d52pMweWOUk6OuwsiCjXJ+0YewIDAQAB
AoGAT+Abd+wzMQBB9PGbt.3ohkDuSvXI5UeGDENUbGpLyJx9V+nJsFAH7YQEzMeA
UtkmyCu4h8HawDXgoJdnxjVszdIBSVATaGIj2+yw/XR0BLkI13AymdB3eg4YW+f
6QbJj2dsob1304CpQZts4FTpASSs8wNElnbBJ1PyRkstfIECQDQgg2ePV52yLDlT
ELr8m+RRtmyxWa01J4OQ2u/EgeIxOiptwP5Ha40Qy9ENIavqR59HbZxxvemRXBJy
idjiT6e3AKEawL4AUsgYljdv004EdmwzRbfnbpdPnLMEQFIqf1XI/fxJoKRXQubB
+ypzqr1cZ6Ee7aB3A+4l6zaxAbvX44tXQJBAMBXRce2Em/QL4rO1Lz7MUV/Qwnd
B4HCTzuzZknJ7KlruQaj5nfB20GY+rOcgXjVJorxkpgzHADsWCMoOjCwWECQCa
ZPh79z6vXrGodNtMRTX5BeyEAP7LxfaE04ypPX1oPnx4Csy+REDEweevfhi2xjC
xjXPdye2t7OocDdpq8dAkeAsPt8QHvPsJTk52zbCVJNQlpkdumJcr05580pHPj
uupcBdfzJL3xRNZJ8WymUGC31VUGbKAFzsv+TmKk5Mv2Q==
-----END RSA PRIVATE KEY-----
```

[Download private key](#)

Public key

This is the public key that needs to be published via DNS before you start using the tokens to send mail.

Bind 9 Format

This is the public key in a format for use in a bind 9 zone file

```
1587067421.evaluationkit._domainkey.evaluationkit.com. IN TXT (
  "v=DKIM1;t=s;p=MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCwkJt+M31IjXciSwYE4soSNi6i"
  "yebkL7S5413xM116saQ2OqI/rCKQetudCb/VZF6CTRifGvYlhv3lfgvxvfiKNSD"
  "hqaHf5id0w1EtEpRp8cZbOuiBC2+eaP/q5ulcJUBHszkDoHk38svAyQ1d52pMweW"
  "OUk6OuwsiCjXJ+0YewIDAQAB")
```

[Download bind format key](#)

Tinydns Format

This is the public key in a format for use in a tinydns zone file

```
'1587067421.evaluationkit._domainkey.evaluationkit.com:v=DKIM1;p=MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCwkJt+M31IjXciSwYE4soSNi6iyebkL7S5413x
```

[Download tinydns format key](#)

Raw format

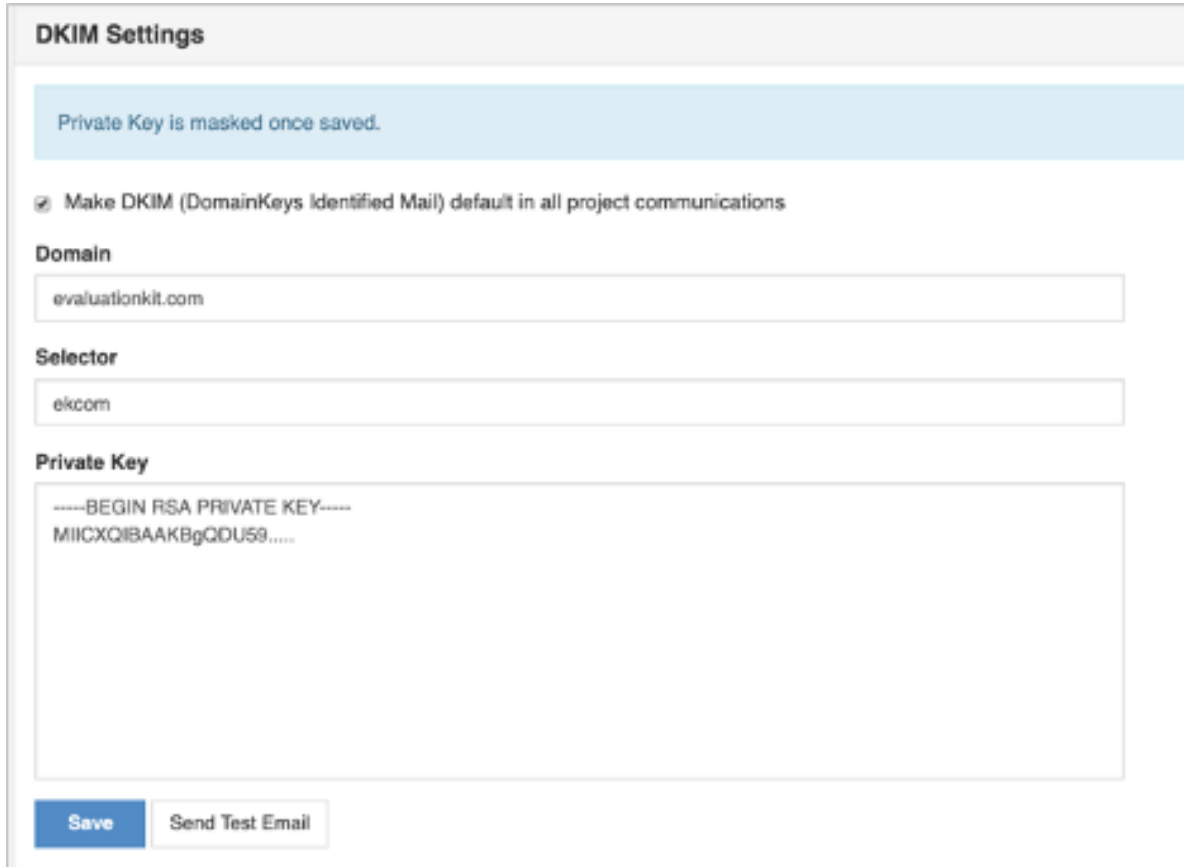
Since the EvaluationKIT team does not have access to either your email or DNS servers, we cannot generate keys and a selector or enter these in your servers on your behalf. You will need to coordinate this effort with the appropriate personnel on your IT team.

Please note that changes you make in your DNS will probably not be instantaneous. Updates can take up to several hours before they are "live."

EvaluationKIT DKIM Setup

As an EK Admin, log into your EvaluationKIT instance and go to Account/Outgoing Email Settings/DKIM Settings.

Sample illustration only



DKIM Settings

Private Key is masked once saved.

Make DKIM (DomainKeys Identified Mail) default in all project communications

Domain
evaluationkit.com

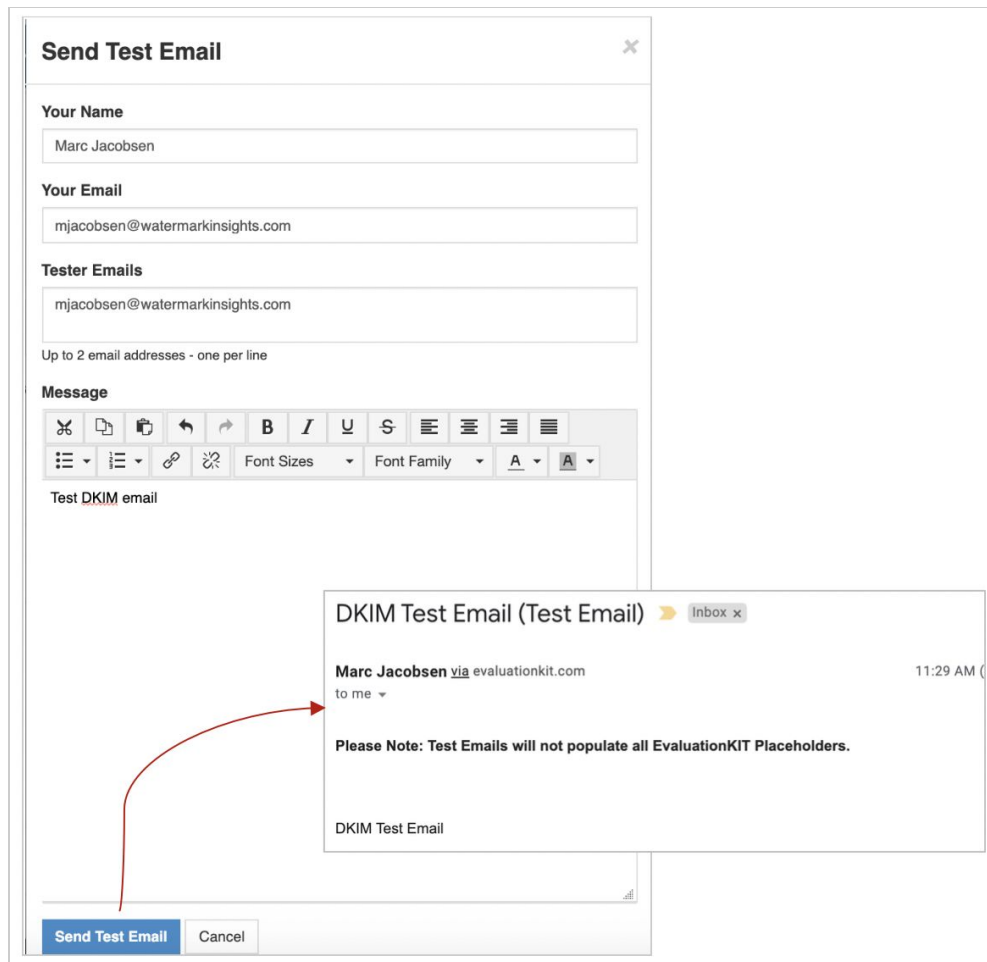
Selector
ekcom

Private Key
-----BEGIN RSA PRIVATE KEY-----
MIICXQIBAAKBgGDU59.....

Enable DKIM and enter the following required information:

1. Your domain
2. A 'Selector' - this can be anything you want but must match what you entered in your DNS.
3. Paste the entire DKIM private key you generated.
 - a. For security purposes, your private key will be masked when you save these settings.
 - b. Reminder: the DKIM public key only goes into your DNS.
4. Click Save.

You will be able to run a DKIM email test from EvaluationKit.



Enter the email details and click 'Send Test Email'.

- "Your Email" = 'From' email address referenced from your domain, this is the email address that you placed in *Account >> Outgoing Email Settings*. The email domain is verified against what you specified in your server, not the EvaluationKIT server.

Check the email box of the recipient of the test email. If received, you completed a successful test. If the email is not received in a timely manner and you confirmed the settings in EvaluationKIT are correct, your email administrator will need to further troubleshoot the setup on your email server.