# Setting up DKIM for On-Prem Exchange Server

Out of the box On-Prem Exchange Server does not support DKIM signing. Now the best way to implement DKIM signing is via a third-party tool.

Please refer to the below steps to configure the DKIM on on-prem exchange server.

#### Installing Exchange DKIM Signer :

- 1. Download the latest GUI package: https://github.com/Pro/dkim-exchange/releases/latest
- 2. Extract it on your Server
- 3. Start Configuration.DkimSigner.exe (If you are not running this tool on Exchange Server, you will get below error)

Exchange DKIM Signer Configuration	8
The check to see whether DKIM Signer i	is installed crashed!
This probably means you are running the which does not have Exchange installed open but it won't be of much use.	he application on a machine d. The program will still
	ОК





### 4. Select Install

(This tool is tested on local machine due to which the "Transport Service Status" is showing as "Loading" and "Install" option is greyed out.)

Micosoft Exchange Installed : Unknown Transport Service Status : Loading Start Stgp Regtart DKIM Signer Installed : Not installed <u>Configure</u> Available : 3.3.1 <u>Install</u> Include prerelease versions Changelog: v3.3.1 (2020-12-23) Fix typo and rebuild. **New*: Added support for Exchange 2016 CU19 **New*: Added support for Exchange 2016 CU19 **New*: Added support for Exchange 2019 CU8 **New*: Added support for Exchange 2019 CU7 users who had issues installing the v3.2.7 build. v3.2.7 (2020-09-24) New: Added support for Exchange 2016 CU18 New: Added support for Exchange 2019 CU7	nformation	DKIM Settings	Domain Settings	EventLog Viewer	About	Debug Helper			
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5. Once the installer has completed, click **Close.** 

## Configuration :

- 1. Now configure the DKIM Signer with the installed GUI. Launch the configuration executable.
- 2. Click **Configure** and move the priority of the Exchange DkimSigner to 1 and then click **Close**.

🔋 Exchange	DKIM Signer				- 🗆 X
Information	DKIM Settings	Domain Settings	EventLog Viewer	About	Debug Helper
Micosoft E	kchange				
Installed :	Unknown		Transport Ser	vice Stat	atus : Loading
			Start		Stop Restart
DKIM Sign	er				
Installed :	Not installe	d		Configur	ure
Available :	3.3.1			Install	I Include prerelease versions
Changelog	:				
v3.3.1 (20	20-12-23) Fix typo and rebu	uild.	0040 0140		^
	**New**: Added **New**: Added **New**: Add loc **Fix**: Outdated	support for Exchan support for Exchan cal DNS lookup opt I build number in Ex	ge 2016 CU19 ge 2019 CU8 ion (Referto #322, changeDkimSigner	thanks Li .dll causir	Luckyvb) sing false new version notifications (#321)
v3.2.8 (20	20-11-11) Pushed new buil	ld to address #317	(which should also i	esolve #	#319 and #320).
who had is	There are no ner ssues installing th	w features in this bu ne v3.2.7 build.	uild so this should or	nly be of i	f interest to Exchange 2016 CU18 and Exchange 2019 CU7 users
v3.2.7 (20	20-09-24) New: Added sup New: Added sup	port for Exchange	2016 CU18 2019 CU7		
3 2 6 (202	0-08-01)				~

Priority	Name	Enabled	Refresh
	Exchange DkimSigner	<ul><li>✓</li></ul>	
2	Transport Rule Agent		
3	Malware Agent	<b>v</b>	Uninstall
4	Text Messaging Routing Agent	<ul> <li>Image: A start of the start of</li></ul>	Disable
5	Text Messaging Delivery Agent		
6	System Probe Drop Smtp Agent	<ul> <li>Image: A start of the start of</li></ul>	
7	System Probe Drop Routing Agent	<b>v</b>	
			Move Up
			Move Down
			-
		(adh) fhishest symbol	Class

3. Go to the **DKIM Settings** tab and change the Header & Body Canonicalization options to **Relaxed**. Click **Save configuration** to save your changes.

nformation DKIM Settings Domain Sett Header to sign From Subject To Date MessageId	tings EventLog Viewer Algorithm RsaSha Log Level Information	About	Debug Helper	Header Canonicalization          Simple       Image: Relaxed         Body Canonicalization       Image: Relaxed
Header to sign From Subject To Date MessageId	Algorithm RsaSha Log Level Information	1 💿	RsaSha256	Header Canonicalization          Simple       Relaxed         Body Canonicalization       Relaxed
From Subject To Date MessageId	C RsaSha	1 💿	RsaSha256	Simple     Relaxed     Body Canonicalization     Canonicalization
To Date MessageId	Log Level			Body Canonicalization
Messageld	Information		•	
				Simple     Simple     Relaxed
Add Delete			Save co	nfiguration

4. Now go to the **Domain Settings** tab. Add your **Domain name** and **Selector** and click **Generate new key**. DKIM Signer will then generate new public and private DKIM signing keys based on your domain and selector.

formation	DKIM Settings	Domain Settings	EventLog View	er About	Debug Helper		
Domains		Domain deta	ails				
			Domain name: y	vourdomain.	.com	Selector: selector_	2020
		Private	key filename:				
		Key length f	or generation:	2048	•	Generate new key	Select key file
		Suggestee	d DNS Name: s	selector_20	20domainkey.you	urdomain.com.	
		Suggested	DNS Record:				*
		Copy to	clipboard				
			Eviating DNS:				<b>T</b>
							^
			neck				
		Direct N	IS check				
							-
٨٩٩	Delete				Saus dama	in	J

A save window will open prompting you to save the newly generated key in "C:\Program Files\Exchange DkimSigner\keys". Click Save.

 Now you need to publish the DKIM TXT record for your domain (yourdomain.com) with your DNS provider. Copy Suggested DNS Name and the Suggested DNS Record.

ronnauori	DKIM Settings	Domain Settings	EventLog Vie	wer About	Debug Helper		
Domains		Domain deta	ails				
			Domain name:	yourdomain	.com	Selector: selec	ctor_2020
		Private	key filename:	yourdomain	.com.pem		
		Key length f	or generation:	2048	•	Generate new key	Select key file
		Suggeste	d DNS Name:	selector_20	20domainkey.your	domain.com.	
		Suggested	DNS Record:	v=DKIM1; k	(=rsa;		
		Copy to	clipboard	UuEQO5qtS +lowVRalap ni5Nu8qRcl NAb3N4QM FFG6ar1DG VJ+MmtTJ9	SwwfftXExtkcPf3MN bk8s/3RC89QhBLSc C0yg91nT1MwzKzZ 12WCIRtqgOid7+FCI im79p2bHb6+noOM XomRlyogFJ0tP4IP}	1tRjuSmxQA61DBy7ke lcfN/6YPgNBc0SpXfHi ad9bhIUrZIE2MKKrKCc ImPVxqbHfdK9Bt/S4rY vkYVvCR1YTC0hHbY: (317o+UlGk08AIRQQIE	etV3T3JlptaHpBEF tzV75p7L3cSd2CE3 1EOEdnw0qD8+GN WjGNaOE/SxLhCgk 3wt570P/BszG&2p DAQAB
		2	Existing DNS:				
		 ☑ Direct N	neck IS check				

Share the copied details with your DNS provider as mentioned below

DNS record name : selector\_2020.\_domainkey.yourdomain.com.

#### DNS record type : TXT

Value : v=DKIM1; k=rsa;

p=MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA5/ChZWGsnYUuEQO5qtSww fftXExtkcPf3MN1tRjuSmxQA6I1DBy7keetV3T3JlptaHpBEf+lowVRaIapk8s/3RC89QhBLSdcf N/6YPgNBc0SpXfHitzV75p7L3cSd2CE3ni5Nu8qRcC0yg91nT1MwzKzZad9bhIUrZIE2iMKKrKC c1EOEdnw0qD8+GNNAb3N4QM2WCIRtqgOid7+FC0mPVxqbHfdK9Bt/S4rYWjGNaOE/SxL hCgkFFG6ar1DGm79p2bHb6+noOMvkYVvCR1YTCOhHbY3wt57OP/BszG8r2fpVJ+MmtTJ 9XomRlyogFJ0tP4IPK317o+UIGkO8AIRQQIDAQAB

6. Wait for few minutes for the record to reflect, then go back to the DKIM Signer **Domain Settings** tab and click **Check**. DKIM Signer will query your DNS record and if it is reflected, your record should now be verified as correct. Click **Save Domain** to save your settings.

nformation	DKIM Settings	Domain Settings	EventLog View	ver About	Debug Helper		
Domains		Domain deta	ails				
		] [	Domain name:	yourdomain.	com	Selector: selector_	2020
		Private	key filename:	yourdomain.	com.pem		<u>i</u>
		Key length f	or generation:	2048	•	Generate new key	Select key file
		Suggeste	d DNS Name:	selector_20	20domainkey.your	domain.com.	
		Suggested	DNS Record:	v=DKIM1; k p=MIIBIjANI UuEQO5qt9 +lowVRalap ni5Nu8qRc0 NAb3N4QM FFG6ar1DG VJ+MmtTJ9	=rsa; 3gkqhkiG9w0BAQE wwfftXExtkcPf3MN kk8x/3RC89QhBLSr 20yg91nT1MwzKzZ 12WCIRtqg0id7+FCI m79p2bHb6+no0M XomRlyogFJ0tP4IPł	FAAOCAQ8AMIIBCgKCAQE 1tRjuSmxQA611DBy7keetV3 dcfN/6YPgNBc0SpXfHitzV7 ad9bhIUrZIE2iMKKrKcC1EO imPVxqbHfdK9Bt/S4rYWjG vkYVvCR1YTCOhHbY3wt5 K317o+UIGkO8AIRQQIDAQ,	A5/ChZWGsnY IT3JlptaHpBEF 5p7L3cSd2CE3 Ednw0qD8+GN NaOE/SxLhCgk 70P/BszG8r2fp AB
		 ☑ Direct N	Existing DNS: Check Direct NS check				*
Add	Delete				Cours domain		· · · · · · · · · · · · · · · · · · ·

7. Go back to the Information tab and restart the Exchange Transport Service by clicking on **Restart**.

	DKIM Settings	Domain Settings	EventLog Viewer	About	Debug Helpe	er	
Micosoft E	xchange						_
Installed :	Unknown		Transport Ser	vice Stat	us : Loading.		
			<u> </u>		0		
			Start		Stop	Restart	
DKIM Sign	er						_
Installed :	Net installe	a .	ſ	Configure	-	1	
installeu .			J 				
Available :	3.3.1			Install		Include prerelease versions	
Changelog	с.						
	"New": Added	support for Exchan support for Exchan	ge 2016 CU19 ge 2019 CU8 ion (Referto #322, 1	thanks L	uckyvb)	E	1
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DKIM Signer is now configured to sign emails originating from your domain.