

# **Step by Step Installation**

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### **TekRADIUS Installation**

TekRADIUS distribution is in zip format. Extract contents of TekRADIUSLT.zip (or TekRADIUS.zip) to a temporary directory and client setup.exe to start installation. Please make sure that you have Microsoft .NET Framework 4.6.1 installed on your computer. Click Next.

👸 TekRADIUS LT		-	-		×
TekRADIUS LT Setup V	Vizard	<b>Teki</b>	3!		ls
The installer will guide you through the st	eps required to insta	II TekRADIUS LT	on yo	ur compu	ter.
WARNING: This computer program is pro Unauthorized duplication or distribution of or criminal penalties, and will be prosecut	otected by copyright f this program, or any ed to the maximum of	law and internation y portion of it, may extent possible und	nal tre result ler the	aties. in severe ⊧law.	civil
	Cancel	< <u>B</u> ack		<u>N</u> ext	>

Read license agreement click "I Agree" if you are agreed with license terms and click next.

📸 TekRADIUS LT		-	_		×
License Agreement		Tek	81		15
Please take a moment to read the license as Agree", then "Next". Otherwise click "Canc	greement now. If y el".	you accept the te	ms be	low, click	"I
License and Disclai	mer of Warran	ty and Liability	,		^
Subject to the terms below, Kap non-transferable license to install LT.	lanSoft hereby l and to use the	grants you a s downloadable	non-e e, Tekl	xclusive, RADIUS	
Whether you are licensing the Te an entity, you may not: (i) rever TekRADIUS LT; (ii) modify, or	kRADIUS LT as rse engineer, d create derivat	s an individual ecompile, or di ive works bas	or on 1 sasser ed up	behalf of mble the pon, the	~
I <u>D</u> o Not Agree	) I <u>A</u> gree				
	Cancel	< <u>B</u> ack		<u>N</u> ext >	>

Select installation directory and click next.

闄 TekRADIUS LT			_		×
Select Installation Folde	PL	<b>Tel</b>	<u> </u>		5
The installer will install TekRADIUS LT to	the following folder.				
To install in this folder, click "Next". To in	stall to a different fol	der, enter it bel	ow or cl	ick "Brows	se".
<u>F</u> older:					
C:\Program Files (x86)\TekRADIUS L	.T\			B <u>r</u> owse	
			<u>[</u>	<u>)</u> isk Cost	
Install TekRADIUS LT for yourself, or f	or anyone who uses	this computer:			
Everyone					
◯ Just <u>m</u> e					
	Cancel	< <u>B</u> ack		<u>N</u> ext :	>

Read Readme information and click next.

븅 TekRADIUS LT		_		×
TekRADIUS LT Information	<b>1</b> 6		<u>}</u> []]	<b>IUS</b>
TekRADIUS LT Version 4.9 Readme File   © Copyright 2007-2015 KaplanSoft				^
0. Contents: 1. Introduction 2. Major features 3. System requirements 4. Installing and Uninstalling 5. Configuration and running 6. Release notes 7. Trademarks				
				~
Cancel	< <u>B</u> a	ick	N	lext >

TekRADIUS will be installed after these steps.

闄 TekRADIUS LT		-		×
Installing TekRADIUS I	LT	<b>Teki</b>	ADI	JS
TekRADIUS LT is being installed.				
Please wait				
	Cancel	< <u>B</u> ack	<u>N</u> ext	>

Click close to finish installation.

🙀 TekRADIUS LT				_ 🗆 🗙
Installation Complete		1	<b>elt</b> i	<b>RADIUS</b>
TekRADIUS LT has been successfully ins	talled.			
Click "Close" to exit.				
Please use Windows Update to check for	any critical up	dates to the	NET Fram	ework.
	Cancel	<	<u>B</u> ack	Close

Select Programs / TekRADIUS LT / TekRADIUS LT Manager to run TekRADIUS LT Manager. TekRADIUS service is not started by TekRADIUS setup. You need to configure some basic settings and start TekRADIUS service manually. You can set startup mode to Automatic at Settings / Service Parameters.

#### **TekRADIUS SQL Edition - Database Creation**

🥃 TekRADIUS Manager [SP] (Admin Mode)	>	<
<u>F</u> ile <u>S</u> ervice <u>H</u> elp		
Users Groups Clients Settings Applic	ation Log Active Sessions Dictionary Editor Reporting Monitors Proxy	
SQL Connection Database Tables A	Accounting Table Service Parameters Alerting	
SQL Server Connection		
SQL Server : 127.0.0	).1 v 😈	
Username   Password : sa	•••••	
Timeout : 5	seconds	
Ignore ANSI Warnings : 🔽		
Save Failed Accounting Inserts :		
Use Default Authentication Query :	lect Attribute, Val from Users where (UserName='%ietf 1%' or Username ='%ietf 1%' + '@' + '%r	
Use Default Authorization Query : Sel	ect Attribute, Val from Users where (UserName='%ietf 1%' or Username ='%ietf 1%' + '@' + '%r	
Delimiter Character : ;		
Encrypt Passwords : 🖂		
DB Session Counter :		
RegExp Matching : 🗹		
Enable User Editing for non-Admin Users :	Test Connection	
	Save Settings	
2 active session(s)	TekRADIUS Service is Running 🧔	<b>.</b> .:

Set SQL connection parameters at Settings / SQL Server Connection tab. Although an "sa" equivalent SQL user needed to create the database and the tables, users can set a less privileged SQL user for regular operation after creating the database and the tables. Click Test Connection button to test SQL connection.

		Dictionary Editor Repor	rung Monitors Proxy	
L Connection Database T	ables Accounting Table Service	e Parameters Alerting		
Create Database			15.	
Database Name	TekRADIUS	~		Create Database
Create Tables				
Users Table	Users			
Accounting Table	Accounting			
Groups Table	Groups			
Sessions Table	Sessions			
				Create Table
Database Maintaince				
Backup File		🔯 🗿 E	Backup 😈 Restore	Shrink
Delete accounting		Y Delete		
records prior to	28.09.2015 14:44:23	▲ Delete		

Create database and tables at Settings / Database Tables.

# **User and Group Profiles**

Click Users tab to add a user profile.

ers Groups C	lients Settings	Application Log	Active Sessions	Dictionary Editor	Reporting Monitors	Proxy		
rowse Users			No us	er selected				
lser-Name 🗸 🗸	like 🗸	~ All	- 🔍 Attrib	oute	Type Value			
Username	Group		^					
cisco-test	Default							
cool	cool-1234							
demo@aditum	Blank							
lemo@sts.local	default							
leneme	Blank							
lino	default							
lwadley	11							
eric	default							
jiresun	Default							
T02119.son	Default							
t01995	Default							
kaifengw	default							
kaplan	Blank							
kaplans	Default							
ukepower	Default							
notptest	Default							
mytestuser	default							
otptest	Default		×				 	
	1.6.1			Charles 14				~

Enter a username and click Add button.

TekRADIUS Manag <u>File Service He</u>	ger [SP] (Admin N elp	/lode)							-		×
Users Groups C	lients Settings	Application Log	Active S	essions	Dictionary Editor	Reporting	Monitors	Proxy			
Browse Users				Check	and Reply Items f	or the user	'testuser'				
User-Name 🗸 🗸	like 🗸	∼ All	~ 🔯	Attrib	ute	Туре	Value				
Username	Group		^								
Balace Phone	Enabled										
pinto	Default										
pinto	Default										
renly	reply-1234										
rio	Default										
riza	Default										
roger@colleg	Default										
samsung	Default										
sbektas	default										
selami	default										
sgeorge	Default										
sheldon	Default										
site041amstutz	11										
sunto	Default										
test	Default										
test1	Default										
test2	VIP										
testuser	default		~								
testuser	default	× 👔 🛅	<b>×</b> ×	Attribut	e: Check ~	3Com-Acc	ess-Acce 🗸		~	· 📃	×
User 'testuser' select	ted						Tek	RADIUS Se	ervice is	Running	9 <i>5</i> 7;

Select attribute User-Password (Check), enter password value and click Add/Update button in order to add a password for the user.

ers Groups C	lients Settings	Application Log	Active S	essions	Dictionary Editor	Reporting	Monitors	Proxy		
Browse Lisers	Sherito Cettingo	, application log	,	Check	and Reply Items	for the user	'testuser'			
	Bro	All			and reply remo					
user-wante V	inte 🗸	~ ^ · ·	× <u> </u>	Attrib	ute	Туре	Value			
Username	Group		^	User-	Password	Check	****			
Palace Phone	Enabled									
ninto	Default									
pornnoi	Default									
renly	reply-1234									
rio	Default									
riza	Default									
roger@colleg	Default									
samsung	Default									
sbektas	default									
selami	default									
sgeorge	Default									
sheldon	Default									
site041amstutz	11									
sunto	Default									
test	Default									
test1	Default									
test2	VIP									
testuser	default		~						 	
tectucer	default	U 548 💁		Attribut	ta i Chack V	Licer-Pace	word >			5

You can map RADIUS Accounting attributes to Accounting table fields.

rs Groups Clients	Settings Application Log Activ	e Sessions Dictiona	ry Editor Reporting	Monitors Proxy		
QL Connection Dat	tabase Tables Accounting Table	Service Paramete	ers Alerting	g Homons Troxy		
Accounting Table Field	d Radius Attribute					
SessionID	Acct-Session-Id					
StatusType	Acct-Status-Type					
InputOcts	Acct-Input-Octets					
OutOcts	Acct-Output-Octets					
UserName	User-Name					
NasIPAddr	NAS-IP-Address					
CallingStationId	Calling-Station-Id					
CalledStationId	Called-Station-Id					
AcctSessTime	Acct-Session-Time					
NasIdentifier	NAS-Identifier					
NasPort	NAS-Port					
NasPortId	NAS-Port-Id					
NasPortType	NAS-Port-Type					
FramedIPAddr	Framed-IP-Address					
DisconnectCause	Acct-Terminate-Cause					
New DB Field :	Enter field name	Type:	'ext	🗸 🕂 Add Fi	eld	
DB Fields :	SessionID V	K Attributes : A	Acct-Session-Id	V 🚰 Add F	air 🗙	Delete Pai
					l 🧊 Sa	ve Settin

#### **RADIUS Clients**

Service Help						
ers Groups Client	s Settings Applica	ation Log Active	Sessions Dictionary	Editor Repo	orting Monitors Prox	¢γ
AS	Secret	Vendor	Username Part	Enabled	Interim Update	
92.168.1.1	ttnet1234	mikrotik		Yes	0	
92.168.1.13	ttnet1234	ietf		Yes	0	
92.168.1.16	ttnet1234	ietf		Yes	0	
2.168.1.221	test	ietf		Yes	60	
92.168.1.224	test	ietf	(^.*\\)([a-z]+)(\$)	Yes	0	
2.168.1.3	test	cisco		Yes	60	
92.168.1.33	test	ietf	(^.*\\)([a-z]+)(\$)	Yes	0	
92.168.1.4	test	ietf		Yes	0	
92.168.1.43	test	msoft		Yes	0	
92.168.1.6	balina	ietf	(^)([a-z]+)(@.*\$)		0	
92.168.1.7	balina	ietf		Yes	0	
92.168.13.1	test	mikrotik		Yes	60	
92.168.13.3	test	mikrotik		Yes	60	
92.168.137.254	ttnet1234	ietf		Yes	0	
92.168.15.1	test	mikrotik		Yes	60	
ADIUS Client Proper	ties					
IAS S	ecret	Username Part	Vendor	Ena	abled Interim Upd	ate Period
92.168.1.6 v b	alina	(^)([a-z]+)(@.*\$	) ietf	Yes	s ∨ 0≑ se	conds
ill Command						
					📰 Ad	d/Update 🛛 🗙 Delete

You must create RADIUS clients entries for access servers like access points, VPN gateways, Hot Spot controllers Ethernet switches. Configured secrets must match in the ones configured in access servers. You do not need to specify Vendor expect VoIP authorization and billing applications. You can configure Interim Update Period parameter if your RADIUS client supports sending Interim Accounting Messages If TekRADIUS does not receive an update in specified period, active session and simultaneous session entries will be cleared.

#### **Service Parameters**

🥃 TekRADIUS Manager [SP] (Admin Mode)			-		×
<u>F</u> ile <u>S</u> ervice <u>H</u> elp					
Users Groups Clients Settings Application Log Active Sessions Dictionary Editor Reporting Monitors	Prox	cy			
Service Parameters	. [				
Listen IP Address   Port   Transport : Any V 1812 - UDP&TCF V Def. EAP Method	od :	PEAP-EA	P-MS-		
TLS Port   Server Certificate : 2083 🜩 secure.kaplansoft.com 🗸 🏠 Smart Card Reade	er :	No read	er fou	~ <b>U</b>	
Startup   Logging : Manual V Develc V Keep Domain Nam	ne:[				
Secure Shutdown : 🗹 DHCP Server Enable	ed : [				
Authorization Only : Send Failure Caus	se : 🛛	$\checkmark$			
Failure Count : 0	od : [		1 🔹	nours	
Add User-Name to HTTP Interface Enabled   Po	ort : 🛛	808	80 🜩		
Access-Accept Messages : HTTP Session Timeor	out :	300 🌲	seco	onds	
Accounting					-
Accounting Enabled   Port : 🔽 1813 🖨 VoIP Billing Enabled : 🗸					
Authentication Proxies	_				-
Windows Auth. Proxy Enabled : 🗹 Windows Domain : kaplan					
Active Dir. Proxy Enabled : Active Directory Domain : 192.168.1.33					
			Save	e Settii	ngs
2 active session(s) Te	kRAD	IUS Sen	vice is	Running	9 🥃:

You can configure several service specific parameters at Settings / Service Parameters. Select **Startup** to Automatic for automatic startup. Please do not click Authorization only unless you know what you are doing.

Set Service Parameters at Settings / Service Parameters tab. You can start TekRADIUS service by clicking start button next to Save Settings button. Do not forget to save settings prior to start the service.

Save settings and start TekRADIUS service from Service menu. You can examine Application log for startup messages.

<u>s</u>	ervice	<u>H</u> elp						
ers	Grou	ps Clients	Settings	Application Log Active Sessions Dictionary Editor Reporting Monitor	ors Proxy			
Date		Time	Туре	Message				
28.09	.2	14:32.34	Inform	TekRADIUS Service 4.9.9.1 is being started.				
28.09	.2	14:32.34	Inform	Detected SQL Server version; Microsoft SQL Server 2012 - 11				
8.09	.2	14:32.34	Inform	Registration Key is valid; running in commercial mode [SP].				
8.09	.2	14:32.34	Inform	TekRADIUS Service is listening Any (16 client(s))				
28.09	.2	14:32.34	Inform	Service started successfully.				
8.09	.2	14:32.16	Inform	Service stopped successfully.				
28.09	.2	14:32.15	Inform	TekRADIUS Service 4.9.9.1 (Revision 1) is being stopped.				
28.09	.2	14:30.20	Inform	Service started successfully.				
8.09	.2	14:30.19	Inform	TekRADIUS Service 4.9.9.1 is being started.				
28.09	.2	14:30.19	Inform	Detected SQL Server version; Microsoft SQL Server 2012 - 11				
28.09	.2	14:30.19	Inform	Registration Key is valid; running in commercial mode [SP].				
28.09	.2	14:30.19	Inform	TekRADIUS Service is listening Any (16 client(s))				
28.09	.2	14:29.00	Inform	Service stopped successfully.				
8.09	.2	14:28.59	Inform	TekRADIUS Service 4.9.9.1 (Revision 1) is being stopped.				
8.09	.2	12:47.09	Inform	Registration Key is valid; running in commercial mode [SP].				
28.09	.2	12:47.09	Inform	TekRADIUS Service is listening Any (16 client(s))				
28.09	.2	12:47.09	Inform	Service started successfully.				
28.09	.2	12:47.08	Inform	TekRADIUS Service 4.9.9.1 is being started.				
28.09	.2	12:47.08	Inform	Detected SQL Server version; Microsoft SQL Server 2012 - 11				
28.09	.2	12:41.50	Inform	Service stopped successfully.				
28.00	2	12-/11/10	Inform	TakDADTHS Service / 0.0.1 (Devision 1) is being stopped				_
nable	e Auto	Refresh :			X Clear L	.og 📝	Refresh	L

## **Obtaining System Id and Applying Registration Key**

You need to have your system id prior to buying a commercial license. Your system id is displayed at Help / About menu of TekRADIUS Manager.



You will receive your registration key electronically, most probably in zipped form. You need to extract Registration.key file prior to apply it onto your installation. You can either directly copy Registration.key file to the TekRADIUS application directory or import it through Help / Import License menu. Restarting TekRADIUS Manager and TekRADIUS service is recommended after applying the registration key.