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## Installation Guide

### Version 5.3.1



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Modern Requirements 4 DevOps

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### INTRODUCTION

This Installation Guide describes the installation/upgradation\* of Modern Requirements4DevOps using detailed steps. The guide is divided into the following three sections:

- 1. System requirements
- 2. Installation process
- 3. Activation

The first section describes the prerequisites for installing the application. The second section deals with the installation procedure while the third section describes the process of activation after a successful installation.

The guide describes the embedded and standalone versions of Modern Requirements4DevOps. Normally, a section is applicable to both installation types. However, if a section is valid only for a particular type, that type is mentioned at the end of the section heading.

- For configurations; refer to the Admin Configuration Guide.
- For user customizations; refer to the **Customization Guide**.

\* The Installation and upgradation process is virtually the same, hence the guide can also be used if users intended to upgrade an existing installation of the application.

### SYSTEM REQUIREMENTS

### **GENERAL SOFTWARE REQUIREMENTS**

- 1. Operating System: Windows Server 2008 R2 or higher / Windows 7 or higher
- 2. Browser: Microsoft Edge, Internet Explorer 10 or higher, Chrome, Mozilla Firefox 47.0.1 or higher
- 3. Screen resolution: 1280 x 960 or higher
- 4. IIS 7 or higher
- 5. Microsoft .Net Framework 4.7.2 or higher
- 6. ASP.NET 4.5
- 7. Multilingual Support Language Pack for IE & Save as word
- 8.

\*Note: Both the 32-bit and 64-bit versions of the operating systems are supported.

The credentials required for installing Modern Requirements4DevOps should include administrator rights on the machine. In other words, users installing Modern Requirements4DevOps on their machine should use admin credentials (or credentials that have admin rights) for proper installation.

For regular team projects, the user of a machine on which Modern Requirements4DevOps is deployed must have admin rights on the TFS Collection (or added in the application domain in IIS).



Modern Requirements4DevOps Installation Guide Modern Rec



\*Note: To access GIT-enabled team projects, logged-In domain user of a machine on which Modern Requirements4DevOps is deployed must have authenticated rights on the TFS Collection (or added in Application Domain in IIS).

For using Modern Requirements4DevOps on HTTPS the application should be bound with a Trusted CA Signed SSL Certificate and not with a Self-Signed Certificate. Modern Requirements4DevOps is not compatible with the Self-Signed certificate and the user would be unable to proceed with it.

### SUPPORTED MICROSOFT WORD VERSIONS FOR WORD IMPORT

• Microsoft Word 2010 or higher (With the .docx, .dotx, .docm, .dotm file extensions)

### **TEAM FOUNDATION SERVER REQUIREMENTS**

### EMBEDDED BUILD VERSIONS

### Standard

TFS 2015 update 2+ and higher

### Single Sign-On

TFS 2017 update 3, TFS 2018 update 1 and higher

### HARDWARE REQUIREMENTS

- 1. RAM: At least 12 GB, but higher storage capacity is required if executing TFS work item queries greater than 100,000.
- 2. Hard drive space: 500 MB

### MINIMUM HARDWARE REQUIREMENTS FOR REDIS

According to Modern Requirements4DevOps, approx. memory usage per user is 477.8495 KB (0.4666 MB).

The maximum hard drive space required is 1.5 \* (memory size).

For instance, in the case of 8 GB of RAM, the maximum hard drive space occupied by Redis would be 12 GB.

A user should make sure his machine has sufficient hardware requirements for Redis.



### **INSTALLATION PROCESS**

### **INSTALLATION GUIDELINES**

- Users are provided with a single installation file i.e. Modern Requirements4DevOps 202x.exe
- Since Modern Requirements4DevOps is a web-based application, it's preferable to install the file on a server. However, any machine with IIS 7 installed would suffice, as would any other more recent IIS web server.
- Installation is required only once. After the installation, all the users with proper access rights can use the application, even if they haven't installed any of the installation files on their local machine.

### INSTALLING MODERN REQUIREMENTS4DEVOPS

1. Double click the Modern Requirements4DevOps 202x Update 1.exe file to start the installation process.

📙   🛃 🚽   MR4DevOps			- 0	×
File Home Share View				~ 🕐
← → → ↑ 📴 → This PC → Local Disk (E:) → softwares → MR4DevOps →	~	Search MR4	DevOps	Q
A Name A	Date modified	Туре	Size	
Deskton	21/07/2020 4:52 pm	Application	536,398 KB	
Downloads				
🔮 Documents 💉				
📰 Pictures 🛷				
3.2.2 *				
Latest June 2018				
MR4DevOps				
Product Logos				
CneDrive				
💻 This PC				
🧊 3D Objects				
E. Desktop				
Documents				
- Downloads			_	
2 items 1 item selected 395 MB				



The initial installation screen appears, asking the user to accept the terms and conditions for using the application.

	×
Modern Requirements4DevOp 2020 Update 1	DS
Setup requires 605 MB in:	
C:\Program Files\Modern Requirements\Modern Requirements4DevOps 20	
You must agree to the Licenses terms and conditions before you can install Modern Requirements4DevOps 2020 Update	e e 1.
Join the Customer Experience Improvement Program	
I agree to the License terms and conditions.	
Next	

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2. Select the terms and conditions agreement checkbox and click Next.

Modern Requirements4DevOps 2020 Update 1	×
Setup requires 605 MB in:	
C:\Program Files\Modern Requirements\Modern Requirements4DevOps 20	
You must agree to the Licenses terms and conditions before you can install Modern Requirements4DevOps 2020 Update 1.	
<ul> <li>Join the Customer Experience Improvement Program</li> </ul>	
I agree to the License terms and conditions.	
Next	]





3. Select the desired build type (embedded or standalone).

	Modern 2020 Up	Requi date 1	rement	× ts4DevOps
Embedded ( Embedded ( Standalone	recommende	ed) ed)	×	
Standard	Project CMN	лі	✓	ards Code
Backlogs	Queries	Baseline	Review	Trace Analysis
Back				Next



Modern Requirements 4 DevOps

4. Select the desired installation type (Single sign-on\* or Standard)

			×
Modern 2020 Up	Requii date 1	rement	s4DevOps
Select build type and	d other d	etails:	
Embedded (recommende	ed)	~	
Only for TFS 2015 update	2+ and ab	ove	
Standard		~	
Single sign-on Standard			
C Project CMN	MI .	Dashboa	rds Code
Backlogs Queries	Baseline	Review	Trace Analysis
Back			Next

\*If **Single sign-on** option is selected, it saves the users from entering login credentials every time they intend to use the application.



### 5. Click Next.

	Modern 2020 Up	Requii odate 1	rement	ts4D	× evOps
Select buil	d type and	d other d	etails:		
Embedded (	recommende	ed)	~		
Only for TFS 2	2015 update	2+ and ab	ove		
Single sign-o	on		~		
Only for TFS 2	2017 update	3, 2018 up	date 1 and	d abov	e
Ċ	Project CM	MI .	Dashboa	ards	Code
Backlogs	Queries	Baseline	Review	Trace	Analysis
Back					Next 💦

The prerequisites for **Embedded** build and **Single sign-on** appear on the screen in Yellow text, once these options are selected. Users are advised to make sure their systems fulfill these prerequisites before installing the application with these options.



6. Configure the "MongoDb" installation options and click Install.

	×
Modern Requirement 2020 Update 1	s4DevOps
MongoDb Installation	
• Auto Install / use existing MongoDb	
• Use MongoDb from following location:	
Location	Port 27017
User	
Password	
Replica Set	
Back	Next 😽

- The **Auto Install MongoDB** option is the recommended option if MongoDB isn't already installed on the target machine.
- If MongoDB is already installed, you must provide the name (or IP address) of the machine where MongoDB is installed.
- Similarly, if Modern Requirements4DevOps is being installed on a load balancing server, the relevant details should be provided here.
- The default port for MongoDB is 27017, but you can give another port number if you're installing MongoDB independently of Modern Requirements4DevOps. At the time of the Modern Requirements4DevOps installation, you should give the same Port number used during the MongoDB installation.
- Refer to your network department to get the value of the MongoDB User/password (if there is one).
- The Replica Set information is used for data replication/mirroring.



7. Configure the "Redis Installation" options and click Install.

	×
Modern Requirements 2020 Update 1	4DevOps
Redis Installation	
• Auto Install / use existing Redis	
Use redis from following location:	
Location	Port
Password	
Back	Install

- The **Auto Install Redis** option is the recommended option if Redis isn't already installed on the target machine.
- If Redis is already installed, you must provide the name (or IP address) of the machine where Redis is installed.
- Similarly, if Modern Requirements4DevOps is being installed on a load balancing server, the relevant details should be provided here.
- The default port for Redis is 6379, but you can give another port number if you're installing Redis independently of Modern Requirements4DevOps. At the time of the Modern Requirements4DevOps installation, you should give the same Port number used during the Redis installation.
- Refer to your network department to get the value of the Redis password (if there is one).
- The use SSL option should be enabled where required. Refer to your network department for this as well.
- The password and Use SSL options aren't mandatory, but their use mainly depends on the procedures followed in your organization.





8. Click Yes in the warning message box.

The relevant files are installed.

	×
Modern Requirements4DevOp 2020 Update 1	S
Please wait while the Setup Wizard installs Modern Requirements4DevOps 2020 Update 1. This may take severa minutes.	il
Status:	
Copying new files	





9. Complete the installation of Modern Requirements4DevOps by clicking Finish or Run.

This is the last installation step for the standalone version. Additional steps for the embedded version are described below.



For the embedded version, the TFS deployment instruction page is displayed in the default browser window. Follow the steps described on the page to obtain the VSIX file.





### INSTALLING MODERN REQUIREMENTS4DEVOPS PATCH

From time to time, patches are released for ModernRequirements4DevOps, including important updates. For these patches to work as intended, ModernRequirements4DevOps core release must have been installed before a user proceeds with the installation of the patch.

For Modern Requirements4DevOps 2020, there may be more than one patch available. Presuming that Patch 1 was released first and then Patch 2; In such a case, Patch 2 would include all the functionality of Patch 1, so if the user has not installed Patch 1 then he can simply proceed by just installing Patch 2. Installing Patch 1 would not be necessary.

Follow these steps to install the patch.

1. Navigate to the relevant folder and double-click the patch exe file.



The patch is installed.

MR4DevOps 2020 Patch 1 Setup: Completed	-		$\times$
Completed			
Show details			
· · · · · · · · · · · · · · · · · · ·			
Cancel Nullsoft Install System v3.05	< Back	Clo	se

2. Click the **Close** button to complete the patch installing process.

MR4DevOps	2020 Patch 1 Setup: Completed	- E		$\times$
Show details				
Cancel	Nullsoft Install System v3.05	< Back	Clo	se 🛌

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Modern Requirements4DevOps Installation Guide Modern Requirements4DevOps

### PATCH VERSION INFO

A change to the fourth digit indicates a patch which includes bug fixes has been released on a build. There can be multiple patches in a build which is represented by the respective patch number, as shown in the image below.

Azure DevOps	INTERNAL_Collection / Organization Settings / Modern Requi	rements4Dev
Collection Settings	Modern Requirements4DevOps 2021 Update 1 Build version: 23.7.1.4	
General	Licensing General Smart Docs Review Baseline Services	
Projects	LICENSE STATUS	
Global notifications	Your Product is ACTIVATED.	
	License type is ONLINE.	
🖄 Analytics	License duration is PERMANENT.	
Security	Sync License Clear License	
മ്പ് Security		
Boards		
Process		
Pipelines		
प्र Agent pools		
T Deployment pools		
C Retention		
OAuth configurations		
Extensions		
Modern Requirements4DevO		

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### DEPLOYING TFS EXTENSION USING THE VSIX FILE

- 1. Log into your TFS.
- 2. Click the **Marketplace** icon and then select the **Manage extensions** option from the drop-down menu.

Overview - Microsoft Tea X										
← → C 🛈 steve:8080/tfs/DefaultCollection/Extensions%20Help/_dashboards?activeDashboardId=f08b9d45-e259-493d-9f83-debd524d52af									☆ :	
M	Extensions Help	Dashboards	Code	Work	Build & Release	Test	0	Search work items	۵ م	<b>•</b>
Overview	·								Browse Marketplace	+ New
<ol> <li>Some f</li> </ol>	features of the web portal are n	not visible to you. Sl	how details						Manage extensions	×

### 3. Click the Browse local extensions link.

<u>_</u> [	Overvie	ew - Microsoft Tea 🗙		2									le le			X
+	← → C 🛈 steve:8080/tfs/DefaultCollection/Extensions%20Help/_dashboards?activeDashboardId=f08b9d45-e259-493d-9f83-debd524d52af										]:					
M		DefaultCollection	•	Projects	Favorites	Work items	Pull requests		Ţ	0		Search work items	م	۵	Ľ	
	Extensi	ions									ひ Refresh	🗃 Browse Marketplace	Browse loc	al exte	ension	<u>is</u>
	Manage	Requested												A.		

4. Click Manage extensions.

Test		
Microsoft		
FREE TRIAL		
Do more here		
Create your own extensions	Find Extensions	Manage Extensions
You can create extensions that are just for you, or that you share or	Most extensions for Visual Studio Team	Manage extensions that
sell through the Visual Studio Marketplace.	Services also work with	you've downloaded from the Marketplace.
Learn more	Studio Marketplace.	Manage extensions
	Access now	Manage extensions



Modern Requirements 4 DevOps

### 5. Click Upload new extension.

×	Team Fo	undation Server				steve
Μ	lanage E	extensions			Upload new extension	t
		Name	Version	Updated		
	Ø	Code Search Code Search provides fast, flexible and accurate search	0.0.106.1	2 months ago		
	N V V	Package Management Create, host, and share packages with your team	15.112.11	2 months ago		
		Sean Test A sample Visual Studio Services extension.	0.1.3	6 days ago		
	Z⊗	Test Manager Integrated test management system for all your manua	15.112.73	2 months ago		

### OR

In case Modern Requirements4DevOps extension already exists and needs to be updated then:

5. Right click on the Modern Requirements4DevOps extension  $\rightarrow$  select **Update...** option.

Team Foundation	Server					Admin
	Manage	Extensions			Upload new extension	
		Name	Version	Updated		
	Ø	Code Search	0.0.106.1	3 months ago		
	म्रि	Delivery Plans	15.125.5	3 months ago		
		Modern Requirements4TFS	••• 0.1.0	a week ago		
		Modern Requirements4TFS-loca	View details Update	3 months ago		
		Package Management	Remove Install	3 months ago		
	₽⊗	Test Manager	Certificate	3 months ago		
	- L	Work Item Search	0.0.116.1	3 months ago		

This would update the Modern Requirements4DevOps extension in all DevOps collections simultaneously, without the need to update each one individually by the user.

For new installations continue with step # 6.





6. Click the **Browse...** button.



- 7. Navigate and select the relevant VSIX file (created at the end of the installation in the last section).
- 8. Click **Upload**.





Modern Requirements 4 DevOps

9. Select the desired collection and click **Continue**.

Moderi by edevtech-m	Modern Requirements4DevOps							
<b>6 1 1 1</b>								
Select team	project collection							
Server:	steve							
Collection:	DefaultCollection ~							
Continue								
Confirm								
The extension v	will be granted these permissions:							
<ul> <li>Code (re</li> <li>Code (state)</li> </ul>	ad, write, and manage) atus)							
<ul> <li>Identity</li> </ul>	(read)							
<ul> <li>Work ite</li> </ul>	ms (read and write)							
This extension	is offered to you for your use by a third party, not Microsoft. By							
clicking Confirm	n, you agree to the publisher's terms, if any, for this extension.							
	Confirm Cancel							

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### 10. Click Confirm.

### Modern Requirements4DevOps

by edevtech-mr

✓ You are installing this extension on server steve in collection DefaultCollection

### Confirm

The extension will be granted these permissions:

- Code (read, write, and manage)
- Code (status)
- Identity (read)
- Work items (read and write)

This extension is offered to you for your use by a third party, not Microsoft. By clicking Confirm, you agree to the publisher's terms, if any, for this extension.

Cancel

Confirm



The *Modern Requirements4DevOps Embed options* become accessible through the **Work** tab.

M	CMMI	Dashboards	Code	Work	Build & Release	Test	0		🞦 🍋 م
Ov	erview			III Bac V≝ Oue	klogs eries				🎤   🕂 New
•	Some features of the web portal an Welcome Set started using Team Foundation most of your team dashboard. Manage Work Add work to your Add code to your Collaborate o Add code to your Continuously Automate your bu Learn how to add	e not visible to you. Si Server to make the Sooard In code repository integrate ilds charts	wa All nev	Diau Sim Rev Trac Bas Nev Bug Red	gram ulation and Use case iew ce Analysis eline v Work Item juirement	x8 2 >	b (0) to your team backlog to	pick up Work Backlog Board Task board Queries	It's lonely in here
	Sprint Burndown Set iteration dates to u burndown wic Set iteration da	se the sprint Iget tes	Nev Ent Bug	w Work I er title	tem	Creat	Open Requi	Yisual Studio Visual Studio Open in Visual Requires Visual Get Visual S See Visual S See Visual Studio	u <mark>al Studio</mark> Studio 2013+ <b>tudio</b> o downloads

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### IN CASE USER CAN'T FIND VSIX FILE

In case a user does not find the VSIX, User can generate and deploy the extension in two ways:

- 1. Using Windows GUI Environment
- 2. Using Windows Command Prompt

### USING GUI ENVIRONMENT

In case of GUI following deployment Instructions are to be followed, to create and deploy TFS Extension:

1. Go to the installation folder of Modern Requirements4DevOps e.g. C:\Program Files (x86)\Modern Requirements\Modern Requirements4DevOps 2019 Update 2

* 🖻 📋	Cut		<b>X </b> ∎	New item		Open -	Select a	ll		
in to Quick Copy Paste access	Paste shortcut	Move Copy to * to *	Delete Rename	New folder	Properties	History	Invert s	election		
Clipboard		Org	anize	New	Ор	en	Selec	ct		
← → * ↑ 📙 « La	ocal Disk (C:) > Pro	gram Files > Mo	odern Requirement	s > Modern Requirer	ments4DevOps 201	9 Update 2	5 v ¢	Search Mode	ern Requirements.	,o
💪 OneDrive	Name	^	Da	te modified	Туре	Size				
This PC	MR-Agent		18	/09/2019 5:29 pm	File folder					
3D Objects	Service	121210	30	/09/2019 10:22 am	File folder					
Desktop	TFS Extensio	n Maker	30	/09/2019 10:22 am	File folder					
Documents	cfg.bat		30	/04/2019 9:07 pm	Windows Batch	File	4 KB			
🕹 Downloads	ongod.cfg		30	/04/2019 9:07 pm	CFG File		1 KB			
👌 Music										
Pictures										
📑 Videos										
🏪 Local Disk (C:)										
📧 Seagate Expansio										
🕳 Local Disk (E:)										
🕳 Local Disk (F:)										

2. Further navigate inside TFS Extension Maker folder.





Depending upon the selected type of installation; there would a folder named:

• Standard (for standard installation)

OR

• Single Sign On (for Single Sign On installation)





3. Navigate inside the folder (whichever is present in the **TFS Extension Maker** folder) and double-click the file "**TFSExtensionMaker.exe**"

Appl	lication Tools Standard	- 🗆 X
File Home Share View I	Manage	~ 🕜
Pin to Quick Copy Paste Restored	Move     Copy     Delete     Rename     New     Delete     New       for     to *     to *     for     for     for     for     for	
← → · ↑	ts4DevOps 2019 Update 2 → TFS Extension Maker → Standard v ਹ	ndard 🔎
Desktop ^ Name	Date modified Type Size	
Documents STFSExtensio	mMaker 12/07/2018 9:52 PM Application 17,917 KB	
- Downloads	•	
Music     Dicturer		
Videos		
Local Disk (C:)		
📧 Seagate Expansio		
👝 Local Disk (E:)		
Local Disk (F:)		
Seagate Expansior		
💣 Network		
✓ 1 item 1 item selected 17.4 MB		

4. Provide required information: (i.e. URI and Output folder) and click the **Generate** button.

O TFS Extension Maker v0.3.12 - Modern Requirements						
Please specify Mo directory	dem Requirements4DevOps URI to generate VSIX fil	e on output				
URI	http://steve:8028					
Output Directory	C:\Users\steve\Desktop	Browse				
		Generate	R			

VSIX file will be generated at the desired location.





5. Click **OK** button to close the confirmation message box.



VSIX overwrite warning appears.

6. Click **No** button to close the warning box.

Warning					×
	VSIX extension a	ready exists in o	utput folder. Do	you want	to overwrite?
				Yes	No <b>K</b>

Refer to point # 2 (in Deploying TFS Extension using VSIX file on Desktop section) onwards to deploy TFS Extension

### USING COMMAND PROMPT

The command used at the command prompt has the following structure:

TFSExtensionMaker.exe --baseuri <Base URI> --out <VSIX Output Path> [[--override] <true | false>] [[--publisher] <Publisher Name[default:edevtech-mr]>] [[--version] <VSIX Version[default:0.1.0]>] [[--scope] <full |less>] [[--exttype] <default | project | user>]



Following deployment Instructions are to be followed, to create and deploy TFS Extension using Command Prompt:

1. Open command prompt using **Run as administrator** option.



 Navigate to the TFS Extension Maker folder within the installation folder (i.e. <Installation drive>:\Program Files\Modern Requirements\Modern Requirements4TFS 2018 Update 3\TFS Extension Maker\Standard)



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### Modern Requirements4DevOps Installation Guide Modern Requirements4DevOps

### 3. Enter the following command:

TFSExtensionMaker.exe --baseuri "<u>http://<server name>:8028</u>" --out "<Output directory path>" --override true --publisher "edevtech-mr" --version <TFS Extension maker version> --scope "full" --exttype "project"

Command Prompt	-		×
C:\Program Files\Modern Requirements\Modern Requirements4DevOps 2019 Update 2\TFS Extension Maker\Standard: akerbaseuri "httpbrianian:8028"out "E:\Extension"override truepublisher "edevtech-mr"version ope "full"exttype "project"_	>TFSE 1 "0.	xtens: 1.3"	ionM sc
			~

4. Check the provided location in command.

📙   🛃 🔒 🗸   Extension				- 0	×				
File Home Share Vi	1				^ 🕐				
Pin to Quick Copy Paste access Clipboard	bath shortcut Move Copy to to to U Organize	name New folder New	Properties • Open • • Edit • History Open	Select all Select none Invert selection Select	1				
← → · ↑ → This PC → Local Disk (E:) → Extension · ♂ ♂ Search Extension									
🗊 3D Objects 🗖	Name	Date modif	ied Type	Size					
📃 Desktop	edevtech-mr.iGVSO-OnPrem-16	.5.1.vsix 07/12/2018	4:59 PM Microsoft V	isual S 1	4 KB				
Documents									
Downloads									
Music									
Pictures									
Yideos									
🏪 Local Disk (C:)									
👝 Local Disk (E:)	Local Disk (E:)								
👝 Local Disk (F:)									
💣 Network									
1 item 1 item selected 13.7 KB					:==				





### 5. Type this address with the server name, in a web browser:

### http://<server name>:8028/VSOInteGreat4TFS/EmbedOMInstructions

🖻 🖅 🗯 Summary - Ove	rview × +	~	Nasa Ni Sak				-		×
$\leftrightarrow$ $\rightarrow$ $\circlearrowright$ $\textcircled{a}$	() steve:8028/	/SOInteGreat4TFS/Embe	dOMInstructions	[	□ ☆	5⁄≡	l~	Ŕ	
MR4DevOps Embedded is inst	alled successfully and	VSIX file is created on desl	ktop. Perform the following instr	uctions to deplo	y TFS Exten	ion:			^
Deploying TFS Extension using	g VSIX file on Desktop								
Go to your system's desktop and	d find the VSIX file gen	erated through installer							- 8
Itosis         Itosis         Recycle Bin         Itosis         I	to search :on and then select the	Manage extensions option	from the drop-down menu.						
Cverview - Microsoft Te X									
← → C () amar:8000/th/C	PefaultCollection/Extensions%20H	elp/_dashboards/activeDashboardId+108b	9d45-e259-493d-9f83-debd524d52af		\$ E				
Contensions Help	Dashboards Code W	lork Build & Release Test	Sealish work items	p 🗅	M				
Overview				Browse Marketplace	+ New				
Some features of the web portal a	ere not visible to you. Show details			Manage extensions	t ×				
3. Click the Browse local e	xtensions link.								
Overview - Microsoft Te x									
← → C () amar.6060/tfs/0	VefaultCollection/Extension:0620He	rlp/_dashboards?activeDashboardId=108b	9d45-e259-493d-9f53-debd524d52af	192	\$ I				
DefaultCollection	<ul> <li>Projects Favorites W</li> </ul>	ork items Pull requests ***	Search work itema	ف م	<b>M</b>				
Extensions			🖰 Refresh 🛛 🗃 Browse Marketplace	Browse local exte	ensions				
Mapage Requested									
4. Click Manage extension	ns link.				6				~

- 6. Follow the instructions and install the extension.
- 7. To enable features, go to the desired project and select Manage Features / Preview Features option.

← → C	🖒 🛛 Ste	<b>ve</b> :8080	)/tfs/QACollectic	on/anew									Step 1 🖈 🕴
0	anew		Dashboards	Code	Work	Build and Release	Test	Wiki		۲			Search work items in this project $\rho \vee 1000$
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∧ clo	one to your co	mpute	e <b>r</b> ve:8080/tfs/QAC	collection/	_git/anew			0	OR	¢	Clone in Visual Studio	~	Code Sign in as So de Sign out Build & Release Set up Build No builds yet





8. Select and enable the desired modules/features.

← → C ① ③ steve 8080/tfs/QACollection/anew	
🗘 anew 🗸 Dashboards Code Work: Build and Release Test Wild 🚳	
A anew 🖈 Briefly describe your project Get started with your new project!	Manage features The following features are optional and can be turned on or off.  MR4TFS - AdvReport Enable feature AdvReport of ModernRequirements4TFS.
Clone to your computer     HittP: SSH http://steve:8080/tfs/QACollection/_git/anew     D: OR t() Clone in Visual Studio	MR4TFS - Alice Bot On Enable feature Alice Bot of ModernRequirements4TFS.
O Having problems authenticating in Git? Be sure to get the latest version of Git for Windows or our plugins for Intellit, Eclipse, Android Studio or Windows command line.	MR4TFS - Baseline On Enable feature Baseline of ModernRequirements(TFS
$^{\checkmark}$ or push an existing repository from command line	
✓ or import a repository	MR4TFS - Compare WorkItem On
V or initialize with a README or gitignore	Enable feature Compare WorkItem of ModernRequirements4TFS.
$\checkmark$ or build code from an external repository	MR4TFS - Copy WorkItems On Enable feature Copy WorkItems of ModernRequirements4TFS.

The enabled features will become accessible under the **Work** option.





Modern Requirements 4 DevOps

### **ACTIVATION (EMBEDDED)**

To activate the embedded version, you need to follow the steps as described below:

1. Access your TFS using a browser and select the **Modern Requirements4DevOps** option under the **Settings** tab.

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✓ ➡ Agile NEw	Modern Requirements4DevOps										
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2. If the product has not been activated the following message will be displayed:

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	Modern Requirements 4 Devo Vour product is not activated. Activate License Activate Continue as StakeHolder Product Already Activated	ps
	Modern Requirements 4 Devo A Your product is not activated. Activate License Activate Continue as StakeHolder Product Already Activated	ps



Modern Requirements 4 DevOps

### 3. Click **Activate**.

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4. You are taken to the License Activation Page.

🗘 Modern Requirements4" x													
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<b>a</b>	steve and	drews	V Projec	ts My favorites	My work items	My pull requests		0	Search work items in this account	~ م	٩	₽	<b>2</b>
Overview	Users	Security	Process	Build and Release	Agent Pools	Deployment Pools	Notifications	Extensions	Modern Requirements4DevOps				
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Proceed to the User Based Activation section below to complete the activation process.





### USER BASED ACTIVATION

1. Select the **User Based** type of license (if not already selected).

usteamqa / Settings / Modern Requirements4Dev									
Modern Requirements4DevOps 2021 Update 1 Build version: 23.7.1.1									
Licensing									
Your product is not activated. Click here for details.									
Activate License									
Select one of the following to activate your license:									
Trial (Expired)									
Usemame: steve.andrews@hotmail.com (Your license will be bound with the provided usemame)									
License Key:									
Activate Continue as StakeHolder									
Offline Activation									
If your machine cannot connect to the Internet, Select Activate Offline option below:									
Activate Offline									

### 2. Enter the relevant license key and click Activate.

Modern Requirements4DevOps 2021 Update 1 Build version: 23.7.1.1									
Licensing									
Your product is not activated. Click here for details.									
Activate License									
Select one of the following to activate your license:									
○ Trial (Expired)									
Username: steve.andrews@hotmail.com	(Your license will be bound with the provided username)								
License Key: 00000-00000-00000-00000	C								
Activate Continue as StakeHolder									
Offline Activation									
If your machine cannot connect to the Internet, Select Activate Offline optic	on below:								
Activate Offline									

On successful activation, you'll be taken to the Browse Page, where you can open the team project of your choice.



Modern Requirements 4 DevOps

### FLOATING ACTIVATION

### 1. Select the **Floating** type of license.

Modern Requirements4DevOps 2021 Update 1 Build version: 23.7.1.1	
Licensing	
Your product is not activated. Click here for details.	
Activate License	
Select one of the following to activate your license:	
○ Trial (Expired) ○ User Based	
Username: steve.andrews@hotmail.com	(Your license will be bound with the provided username)
Floating Url:	
Activate Continue as StakeHolder	

### 2. Enter the Floating URL and click Activate.

Modern Requirements4DevOps 2021 Update 1 Build version: 23.7.1.1	
Licensing	
Your product is not activated. Click here for details.	
Activate License	
Select one of the following to activate your license:	
◯ Trial (Expired) ◯ User Based	
Username: steve.andrews@hotmail.com	(Your license will be bound with the provided username)
Floating Uri: http://www.abc.com/license	]
Activate Continue as StakeHolder	

On successful activation, you'll be taken to the Browse Page, where you can open the team project of your choice.



Modern Requirements 4 DevOps

### OFFLINE ACTIVATION

### 1. Select the Activate Offline check box.

Modern Requirements4DevOps 2021 Update 1 Build version: 23.7.1.1	
Licensing	
Your product is not activated. Click here for details.	
Activate License	
Select one of the following to activate your license:	
○ Trial (Expired)	
Username: steve.andrews@hotmail.com	(Your license will be bound with the provided username)
License Key:	]
Activate Continue as StakeHolder	
Offline Activation	
If your machine cannot connect to the Internet, Select <b>Activate Offline</b> option	n below:

### 2. Follow the given instructions to activate.

Modern Requirements4DevOps 2021 Update 1 Build version: 23.7.1.1	
Licensing	
Your product is not activated. Click here for details.	
Activate License	
Select one of the following to activate your license:	
◯ Trial (Expired)	
Username: steve.andrews@hotmail.com	(Your license will be bound with the provided username)
License Key:	
Generate Request File Continue as StakeHolder	
Offline Activation	
If your machine cannot connect to the Internet, Select Activate Offline option	on below:
Activate Offline	
Follow the below steps to activate product:	7
1. Click on Generate Request File button.	
2. Send Generated Request File to mailto:support@modernrequirements.com	n
3. Click on Apply License File button to apply offline.	
Apply License File	

On successful activation, you'll be taken to the Browse Page, where you can open the team project of your choice.



Modern Requirements 4 DevOps

### ACTIVATION UNSUCCESSFUL ERROR

Modern Requirements4DevOps 2021 Update 1 Suid version: 23.7.1 <b>Licensing</b> Your product is not activated. Click here for details. Activation is unsuccessful. Cannot connect to server. Please check your internet connection settings. Click here to view error details. Activate License Select one of the following to activate your license: Trial • User Based • Floating Username: steve.andrews@hotmail.com • (Your license will be bound with the provided username) License Key: Activate Continue as StakeHolder Offline Activation If your machine cannot connect to the Internet, Select Activate Offline option below: Activate Offline		
Licensing         Your product is not activated. Click here for details. <ul> <li>Activation is unsuccessful. Cannot connect to server. Please check your internet connection settings. Click here to view error details.</li> </ul> Activate License           Select one of the following to activate your license:          Trial          O User Based          Ploating          Username:          steve.andrews@hotmail.com          License Key:            Activate         Continue as StakeHolder          Offline Activation         If your machine cannot connect to the Internet, Select Activate Offline option below:             Activate Offline	Modern Requirements4DevOps 2021 Update 1 Juild version: 23.7.1	
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Activate License Select one of the following to activate your license:  Trial Username: Steve.andrews@hotmail.com Ucense Key:  Activate Continue as StakeHolder  Offline Activation If your machine cannot connect to the Internet, Select Activate Offline option below: Activate Offline	8 Activation is unsuccessful. Cannot connect to server. Please check your internet con	nection settings. Click here to view error details.
Select one of the following to activate your license: <ul> <li>Trial</li> <li>User Based</li> <li>Floating</li> </ul> <li>Username: <a href="mailto:steve.andrews@hotmail.com">steve.andrews@hotmail.com</a> </li> <li>Uicense Key: </li> <li>Activate</li> <li>Continue as StakeHolder</li> Offline Activation If your machine cannot connect to the Internet, Select Activate Offline option below: <ul> <li>Activate Offline</li> </ul>	Activate License	
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Very rarely, a message will pop up saying that the activation has been unsuccessful, as seen in the image above. In most cases, this error is due to problems in Internet connectivity. Users have to resolve their connectivity problems themselves in order to successfully activate the application.

This message is also displayed when secured environment is blocking proxy from firewall, or due to applied network policy. To resolve the problem in this case, users have to provide their network department with the following URL and ask the department to enable it:

https://modernrequirements.compliance.flexnetoperations.com:443/deviceservices



### APPLICATION SETTINGS OF UI FOR MR CREDENTIALS (AZURE DEVOPS SERVICES ONLY)

After installing the build on Azure DevOps (VSTS), the user needs to update 'redirectURI' property in configuration to the URL of UI Deployment for ModernRequirement4DevOps (MR) credentials to work for review approval.

**Note:** This is only for those users who use **Modern Requirements4DevOps on Azure DevOps (VSTS)**. This doesn't apply to users who have installed the application on their machine as an Embedded or Standalone version.

This is how it can be done:

1. Open **"IIS Manager".** 

<b>V</b>			Internet Information Services (IIS) Manager
🕞 🕥 💐 🕨 Start Page			
File View Help			
Connections	Merosoft Internet Info Application Server Mar	ormation Service	
⊢ a Application Pools ▷ - a Sites	Name	Server localhost	Connect to localhost Connect to a server Connect to a site Connect to an application

2. Select ModernRequirements4DevOps UI under 'Sites' folder.

File View Help		
Connections	Microsoft Internet Int Application Server M Recent connection	formati <sup>anager</sup>
<ul> <li>Default Web Site</li> <li>Modern Requirements4DevOps 2020 Update 1</li> </ul>	Name	loc



3. Open 'Application Settings'



4. Scroll down to "redirectUri" field and double click on it to edit.

#### Application Settings Use this feature to store name and value pairs that managed code applications can use at runtime. Group by: No Grouping Value Name 10 RecentProjectsCount https://localhost:44368/ redirectUri P. Review.AddHyperLinkInWorkItem false Review.AdminPanel.Audit.Reports.Section.Display true Review.AdminPanel.Mongo.Migration.Section.Dis... true Review.Creation.Limit 10000 Review.HistoryUpdate.Background.Threshold 3000 Review RulesApproveAsPackage true



5. In the **'Value'** field, provide the base URL and port. For example, <u>https://steve:8028/</u>

Review.AdminPanel.Audit.Reports.Section.Display		true
Review.AdminPanel.Mongo.Migration.Section.Dis		true
Review.Creation.Limit		10000
Review.HistoryUpdate.	Edit Apr	alication Satting ? X
Review.RulesApproveA	Euit App	
Review.RulesApproveA	Name	
Review.RulesReenterPa	indirie.	
Review.RulesReenterPa	reairecturi	
Review.RulesStatesVisit	Value:	
ReviewMapping	https://steve:8028/	
ServiceAddress		
SessionRefreshTime		
ShowAnalysisTab		OK Cancel
ShowBackwardUtilityC		
ShowCopyBaseline		true
ShowRenameBaseline		true
${\it ShowRollBackWorkItem}$		true
ShowScenario		false
ShowTreeGridControl		true

6. Press **"OK"** to save the changes.

Review.AdminPanel.Aud	it.Reports.Section.Display true
Review.AdminPanel.Mon	igo.Migration.Section.Dis true
Review.Creation.Limit	10000
Review.HistoryUpdate. Review.RulesApproveA	Edit Application Setting
Review.RulesApproveA Review.RulesReenterPa Review.RulesReenterPa	Name: redirectUri
Review.RulesStatesVisit ReviewMapping	Value: https://steve:8028/
ServiceAddress SessionRefreshTime ShowAnalysisTab	OK Cancel
ShowBackwardUtilityC	
ShowCopyBaseline	true
ShowRenameBaseline	true
ShowRollBackWorkItem	true
ShowScenario	false
ShowTreeGridControl	true



Modern Requirements 4 DevOps

### MR CREDENTIALS REGISTRATION ERROR

Please note that the above configuration is necessary for **MR Credentials** to work. If you do not deploy the above configuration, you will get the following error message during MR Credentials registration process while doing the approval of a work item using E-Signature in the Review module.

Dogius / Neview	the first where there are an art	ン Search
	Authentication Required	×
155049: Review Sprint 1	Which one do you want to use for authentication?	
Review Smart Docs View De	A MR Credentials	
🔿 🕜 Create Request 🛛 🗒 Rei		eport 🔊
🛐 Compare 🛛 🤶 Analyze	Personal Access Token (ADO)	✓ B(1):
D Title	c	ancel Comment
54999 As a user, I should 55000 Requirements		Add a comment
	Microsoft	
	steve@modernrequire	ements.com
	Enter passwo	rd
	Forgot password?	
		Sign in
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	→ C ☆ () localhost:44368	
		Γ <sup>α</sup>
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oid this error, you ne ploy the above		Ioumos relace to connect.
oid this error, you ne ploy the above <u>guration settings</u> for	MR	Try: • Checking the connection
oid this error, you ne ploy the above guration settings entials to work	MR	Try: • Checking the connection • Checking the proxy and the firewall ERE CONNECTION BELIEFE
oid this error, you ne oloy the above g <u>uration settings</u> for entials to work	MR	Try: Checking the connection Checking the proxy and the firewall ERR_CONNECTION_REFUSED
oid this error, you ne ploy the above <u>guration settings</u> for entials to work	MR	Try: Checking the connection Checking the proxy and the firewall ERR_CONNECTION_REFUSED Details
oid this error, you ne ploy the above <u>suration settings</u> for entials to work	MR	Try: • Checking the connection • Checking the proxy and the firewall ERR_CONNECTION_REFUSED Details

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