Software

webMethods API Gateway Quick Start

Version 10.11

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WEBMETHODS

This document applies to webMethods API Gateway 10.11 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Let's get you started

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Welcome to API Gateway.

To get you started, this quick start takes you through the process of the installation and basic operations that can be performed with API Gateway. In addition, it explains how to install API Portal and publish an API to API Portal. You can also publish APIs to configured service registries.

The sections of this document explain the basic functions with mandatory steps and necessary screenshots wherever applicable. For detailed instructions and about more functions that can be performed using API Gateway, see *webMethods API Gateway User Guide*.

API Gateway Overview

- Secures your APIs from malicious attacks.
- Monitors the traffic that flows to and from your APIs.
- Manages the entire lifecycle of APIs, from their creation to publication.
- Collects API usage data for analytics.

Quick Start Milestones

The following diagram depicts the quick start milestones:

Install	Create API	Configure Policies	Publish API	Request API Key	Try API	View API Analytics
Install API Gateway and API Portal	Explore different ways to create APIs	Secure your APIs from malicious attacks	Configure a destination and publish your APIs	Need to use an API? Check how to request API key	Wondering what response an API would return? Try it out!	Check how your APIs perform

2 Install API Gateway

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How Do I Install API Gateway?

This section describes the steps required to install API Gateway using Software AG Installer.

Note:

You can also install the application through other channels like automated scripts or Docker store. Also, webMethods.io API does not require the installation through Software AG Installer.

Pre-requisite

• Ensure that you have the Software AG Installer and the license file copied to the system in which you want to install API Gateway.

To install API Gateway

- 1. Double-click to open the Software AG Installer.
- 2. In the **Credentials** tab, provide your Empower credentials in the **Username** and **Password** fields and click **Next**.
- 3. In the **Directory** tab, modify the installation folders, if required, and click **Next**.
- 4. In the **Products** tab, select API Gateway from the list of Software AG products and click **Next**.

Software AG Installer	_	
SOFTWARE AG Installer →Proxy →Credentials →Release →Directory →Products →Langua	iges →Updates →Consent →Co	<u>About</u> onfigure →Install
Select products and/or typical development installations: The installer automatically selects required lower-level items when you se lower-level items if you unselect products. If you want to unselect both pro	elect products, but will not automat	
ActiveTransfer Agent 10.7 ActiveTransfer Server/Gateway 10.7 Adabas Products Adapters Adapters Adapters ApileApps Apama - API Gateway - API Gateway 10.7 API Gateway Data Store 10.7 API Gateway 10.7 API Portal 10.7 API Portal 10.7 Asset Build Environment 10.7 BigMemory Max 4.3 - GentraSite - Colud - Cloud Streams Server 10.7 - Database Configuration - Designer - Digital Event Services 10.7 - End-to-End Monitoring - End-to-End Monitoring - End-to-End Monitoring - Mircogateway 10.7 - Infrastructure - Vironal Adapter 2007 - Posting Adapter 2007 - Adapter 2007	Selected Release: Installed Release: Product Size: Total Download Size: Free Space Required: Free Space Available:	1293 MB 2587 MB 76726 MB
	< Back Next	t> Cancel

- 5. Read through the license agreement and select the checkbox below the agreement to provide your consent. Click **Next**.
- 6. In the **Configure** tab, click **Browse** to select the license file, from your local folder. The default primary ports *5555* for the Integration Server instance and *9999* for the diagnostic port appear. Modify the ports, if required, and click **Next**.

Software AG Installer	_		\times
SOFTWARE AG			About
Installer			
→Proxy →Credentials →Release →Directory →Products →Languages →Updates →	Consent 🔿	Configure	⇒Install
Integration Server			
License file: C:\Users\HTRB\Desktop\49_APIGatewayAdvanced101.xml			Browse
Server Instance			
Instance name: default Secure port 554	3		
Primary port: 5555 Diagnostic port: 999	9		
Register Windows service/UNIX daemon for automatic startup			

- 7. Select Embedded Database in the Database Connection section and click Next.
- 8. Modify the default values of HTTP port and HTTPS port, if required. They are, by default, *9072* and *9073* respectively. Click **Next**.
- 9. Modify the default values of API Gateway Data Store HTTP port and TCP/IP port, if required. They are, by default *9240* and *9340* respectively. Click **Next**.
- 10. Check the specified configuration and click Install.

API Gateway is installed.

How Do I Install API Gateway using an Image in Windows system?

This section describes the steps required to install API Gateway using an installation image in a Windows system.

Pre-requisite

- Ensure that you have the Software AG Installer, the installation image, and the license file copied to the system in which you want to install API Gateway.
- To install API Gateway using an installation image
- 1. Double-click to open the Software AG Installer.
- 2. Click **Advanced Options** and select the **Images** tab.
- 3. Select **Use Installation Image** and select **Install from image**.

4.	Click Browse	and select	the installation	n image file.
----	--------------	------------	------------------	---------------

dvanced Options			×
Scripts Images Caching	Logging Server		
		that cannot go outside your corporate firewall, create he image and create a customized installation on ea	
🗹 Use installation image			
◯ Create image			
Image file:			Browse
Image platform:		•	
Install from image			
Image file:	C:\Users\HTRB\	Documents\apigimage.zip	Browse
	Image Contents Validate Image		
		ОК	Cancel

- 5. Click **Ok** and click **Next**.
- 6. Select **API Gateway** from the **Products** tab and click **Next**.
- 7. Read through the license agreement and select the checkbox below the agreement to provide your consent. Click **Next**.
- 8. In the **Configure** tab, click **Browse** to select the license file, from your local folder. The default load balancer ports appear. Modify the ports, if required, and click **Next**.
- 9. Check the specified configuration and click **Install**.

API Gateway is installed.

How Do I Install API Gateway using an Image in Linux system?

This section describes the steps required to install API Gateway using an installation image in a Linux system.

Pre-requisite

Ensure that you have the Software AG Installer bin file (SoftwareAGInstaller-Linux_x86_64.bin), the installation image, and the license file copied to the system in which you want to install.

> To install API Gateway using an installation image

1. Run the following command in your Linux console:

```
sh SoftwareAGInstalleryyyymm-operating_system.bin
-readImage full_path_to_image_file -console
```

For example,

```
sh "/home/APIGateway/SoftwareAGInstaller-Linux_x86_64.bin"
-readImage "/home/APIGateway/Image/apig_64bit.zip" -console
```

2. Provide the full path of the folder in which you want to install the application and press Enter.

For example,

```
Select the installation directory. Enter X to exit the installer.
Installation directory: [ /opt/softwareag ] ? /home/APIGateway
```

3. Provide the number adjacent to API Gateway from the list of products and press Enter.

Select a new item to install by entering the item	number. [X] marks items to install; [#] indicates a partial installation. [I] marks already-installed it
When you select products, the installer automatic selections to unselect the associated lower-level	cally selects lower-level items that support those products. If you need to unselect products, clear all t L items as well.
Install? Product Name	(Toggle for Build) Size
1) [#] Select All 2) [] API Gateway	
3) [] API Gateway 10.7	624 MB
4) [] API Gateway Data Store 10.7	104 MB
5) [] Database Configuration	
	Auntime Embedded Database Scripts 10.735 KB
7) [#] Infrastructure	
+) Jump to products 8 to 17 out of 104	Total: 255 MB
S) Search for a product T) Toggle J) Jump to inde	×x
N) Next B) Back X) Exit	
Enter: [N] ?2	
Product Name	Release
API Gateway Data Store	10.7.0.0.398
	and Microservices Runtime Embedded Database Scripts10.7.0.0.196
 Infrastructure > Event Routing Event Type St 	tore 10.7.0.0.445
10) Integration Server > Adapter Runtime	10.7.0.0.65
 Integration Server > Flat File 	10.7.0.0.28
 Integration Server > Integration Core 	10,7,0,0,196
 Libraries > Shared Libraries 	10.7.0.0.434
 Libraries > Broker Libraries 	10.5.0.0.700
18) Libraries > CentraSite Libraries	10.7.0.8.597
19) Libraries > Composite Applications Runtime	10.7.0.0.496
20) Libraries > Database Component Configurator	Core 10.7.0.0.34
21) Libraries > Database Driver Libraries	10.7.0.0.38
22) Libraries > Designer Libraries	10.7.0.0.312
23) Libraries > Digital Event Services	10.7.0.0.368
24) Libraries > Glue Libraries	8,0,0,9000,196
25) Libraries > Installer Libraries	19.7.9.9.417
26) Libraries > Migration Framework Libraries	10.7.0.0.196

4. Provide the full path of the license file and press **Enter**.

For example,

Integration Server
License file:[] ? "/home/APIGateway/APIGatewaylicense.xml"

5. Provide the required port numbers and press **Enter**.

The default port numbers appear next to each field. You may use the same or provide port numbers of your choice. For example,

```
Secure port: [ 5543 ] ? 5543
Primary port: [ 5555 ] ? 5555
Diagnostic port: [ 9999 ] ? 9999
```

The list of products that will be installed appears.

6. Check the provided configurations, the list of products, type N and press Enter.

After installation, the list of installed products appears.

7. Type F to finish the process and press **Enter**.

API Gateway installation is complete.

How Do I Install API Portal?

This section describes the steps required to install API Portal using Software AG Installer.

Pre-requisite

• Ensure that you have the Software AG Installer and the license file copied to the system in which you want to install API Portal.

> To install API Portal

- 1. Double-click to open the Software AG Installer.
- 2. In the **Credentials** tab, provide your Empower credentials in the **Username** and **Password** fields and click **Next**.
- 3. In the **Directory** tab, modify the installation folders, if required, and click **Next**.
- 4. In the **Products** tab, select API Portal from the list of Software AG products and click **Next**.

Software AG Installer	-		\times
SOFTWARE AG Installer →Proxy →Credentials →Release →Directory →Products →Languag	es →Updates →Consent →I	Configure	<u>About</u> →Install
Select products and/or typical development installations: The installer automatically selects required lower-level items when you sele lower-level items if you unselect products. If you want to unselect both products	ect products, but will not autom		elect
Image: Construct of the second sec	Selected Release: Installed Release: Product Size: Total Download Size: Free Space Required: Free Space Available:	354	1927 MB 3855 MB 4101 MB
	< Back Ne	ext> C	Cancel

5. Read through the license agreement and select the checkbox below the agreement to provide your consent. Click **Next**.

6. In the **Configure** tab, click **Browse** to select the license file, from your local folder. The default load balancer ports appear. Modify the ports, if required, and click **Next**.

Software AG Install	er				_		×
SOFTWA Installer →Proxy →Credentials		→Products	→Languages	→Updates	→Consent	→Configur	<u>About</u> e →Install
API Portal							
License file:	C:\Users\HTRB\Down	loads\License	e files\APIPorta	1101.xml			Browse
Load balancer port	18101						
Load balancer SSL port	18102						
O Medium (Consumes 4	3 memory, Scale upto 5 GB memory, Scale upto 3 memory, Scale upto 4	100 concurre	ent users)				

7. Check the specified configuration and click **Install**.

API Portal is installed.

Getting Started

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How Do I Launch and Log on to API Gateway?

> To launch and log on to API Gateway

- 1. Perform one of the following based on your operating system:
 - Windows Go to ■, type Start Integration Server, and press Enter.
 - Linux Run startup.sh from the ../SoftwareAG/profiles/IS_default/bin/ path. For example,

/home/admin/SoftwareAG/profiles/IS_default/bin/startup.sh

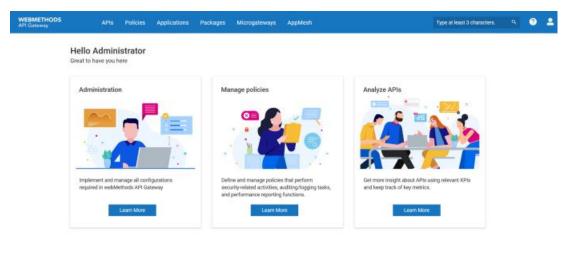
2. Type the following URL in your browser's address bar and press **Enter**: http://defaulthost:defaultport.

For example, http://localhost:9072. Port is the HTTP port of API Gateway configured during installation; by default, 9072.

3. Provide your **Username** and **Password**, and click **Log in**.

The default user name is Administrator and password is manage.

The home page appears.



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How Do I Launch and Log on to API Portal?

> To launch and log on to API Portal

1. Perform one of the following based on your operating system:

- Windows Go to ■, type Start API Portal, and press Enter.
- Linux Run the following command to start API Portal Cloud Controller (ACC): Software AG_directory/API_Portal/server/acc/acc.sh

and then run the following command in the ACC command prompt: startall

2. Type the following URL in your browser's address bar and press **Enter**: http://defaulthost:defaultport.

For example, http://localhost:18101. Port is the HTTP port of API Portal configured during installation; by default, 18101.

3. Provide your Username and Password, and click Log In.

The default user name is system and password is manager.

The home page appears.

Create an API

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How Do I Create an API?

To create an API

- 1. Click **APIs** on the title navigation bar of the home page.
- 2. Click Create API.

METHODS	APIs Policie: Applications Packages Microgateways AppMesh	Type at least 3 characters. 9, 🧿
) APIs (Crosts API		
eate API		
te an API by importing fro	rom a file, URL or start from scratch 🔮	
to Cot Cto	ortadi	
ets Get Sta		
	PI from file	
Create an Al	VPI by importing API from a specified file.	
North Million		
Select file*	Description	
Select file*		1
	Description	
Select file*		
Name	S Browse S	
Name Type RAML	S Browse S	
Name Type	S Browse S	
Name Type RAML	S Browse S	
Name Type RAML Crowle	S Browse S	

For more information, see the section APIs in the *webMethods API Gateway User's Guide*.

How Do I Create an API by Importing from a File?

- **>** To create an API by importing a file
- 1. In the **Create API** page, select **Import API** from file.
- 2. Click **Browse** and select the file to import.

Select file*			Description
EmployeeService.json	🖀 Browse	•	API for managing employee services.
Name			
EmployeeService			
Туре	Version		
Swagger ~	1.0		
Create			
Import API from URL			

- 3. Provide the API name in the **Name** field, if required.
- 4. Provide the required **Description**, **API Type**, **Version**, and click **Create**.

The API is created and appears in the APIs list under the **APIs** tab.

How Do I View API Details?

The details of API are displayed once an API is created.

WEBMETHODS API Ostemay	APIS Policies A	oplications Packages	Microgateways	AppMesh	Type at least 3 characters.	s ?	•	
Home j APIs 3 Employee	Service							
EmployeeServic View API details, basic and	ce I technical information, resources an	rd methods available, and API sp	ecifications.		🙆 Publish 🖌 Ed	Deactiv	ate 1	Click a tab to
API details Scope	s Policies Mashup	e Applications	Analytics	-	 			→ perform a task
Basic information Technical information Resources and methods API mocking Components Documentation	Version Dener Active Maturity state Created Lest updated	Administrator 🖌 Ves	vicea					for the API
	Technical information Netive endpoint(s)	1 http://localhost:5555/rest/	apigateway					
Click a link to view	5							

You can also click the **APIs** from the title navigation bar and select the required API from the available list of APIs to view its details.

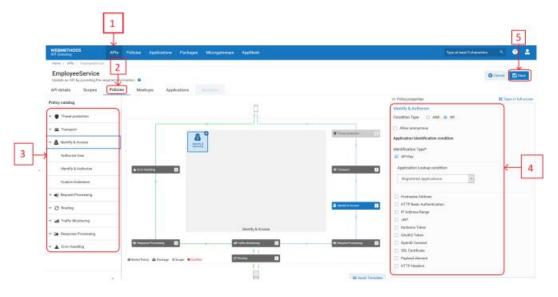
the relevant information

How Do I Enforce Policies to Protect My APIs?

This section explains the steps to secure your API using the API Key check policy. This policy enables you to identify and validate the client's identity for exposing an API. After configuring policies, you must configure transaction logger to save API Gateway transaction event logs.

> To enforce policies on APIs

- 1. Click **APIs** in the title navigation bar and select the required API.
- 2. Click **Policies** and click **Edit**.



3. Select the policy stage and the required policy.

The details of the policy appear.

4. Provide the properties for the selected policy and click **Save**.

The policy is applied to the API.

For more information, see the section Policies in the webMethods API Gateway User's Guide.

How Do I Enable Transaction Logs?

You must enable the **Transaction Logging** policy, which is a global policy, to log the request and response payloads performed against an API. The policy is disabled, by default. Since it is a global policy, the policy is applied to all APIs across the application, when you enable the policy.

Important:

This step is mandatory to view the performance metrics of APIs in the **Analytics** tab.

> To enable transaction logs

- 1. Click **Policies** in the title navigation bar of the home page and click **Global Polices**.
- 2. Enable the **Transaction logging** policy by clicking the **O** button adjacent to the policy name.

			1	ŀ										
WEBMETH	005	APIa	Pelicies	Applications	Packages	Microgatewaye	AppMeet			Spr a	leset 3 character		. 0	
Hare 3 Per	-													
Policies tradement a		pr global politina, 😐										• Dear	n giribəli (patient.
Threat prote	ection	Olobal policies		y templates										
		Name			Description									+
. [3	Transaction logging			This is a system (d across all A.,			filters associated to log request					0	

Publish an API

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How Do I Configure Destination for Publishing APIs?

You have to specify and configure details of the destination where you want to publish your APIs. You cannot publish an API, if a destination is not configured.

Pre-requisite

- Ensure that you have launched the required API Portal instance. For information on launching API Portal, see "How Do I Launch and Log on to API Portal?" on page 18
- > To configure the destination for publishing your APIs
- 1. Select **Administration** from the menu options icon (\square) in the title navigation bar.
- 2. Select the **Destinations** tab, expand **API Portal** in the left pane, and select **Configuration**.

API Portal communication Configure API Portal communication information.		
Basic information		
Name		Name and version
cw		
Version		of the API Gateway
12		
Portal configuration	Gateway configuration	
Base URL	Base URL	_
http://daeapiportal99.eur.ad.sag/#default/home	http://sag-92dymh2.eur.ad.sag.5555	
Tenant	Username	_
default	Administrator	
Usemane	Password	
system	•••••	
Password	Stage name	
•••••	Prod	
Carool Test Suddah		
URL, Tenant name, and credentials required to access API Portal	URL and credentials of API Gateway for API Portal to create applications, request and so on	

3. Click **Test** to test the connection and click **Publish**.

The destination details are saved.

For more information, see the Publish APIs section in the webMethods API Gateway User's Guide.

How Do I Publish an API?

> To publish an API to the configured destination

1. Click **APIs** on the title navigation bar of the home page.

2. Click the **Publish** icon next to the API that you want to publish.

WEBMETHODS VPI Gatemay		AP1s	Policies	Applications	Packages	Microgateways	AppMesh			Type at leas	13 chara	icters.		0	-
Hame i APta															
Manage APIs Create and manage your APIs													•	Create	4PI
Add filter	D		Name		Descriptio	on -		Version	Modified Time					0	
Type REST		REST	API		This is a s	ample server Petston	server. You can find out	1.0	21 Feb 2021 20:55:52 ()51	n 🖻	al		۵	٥	
SOAP OData WebSocket		etst	Employee	Gervice	API for me	anaging employee ser	nces	1.0	22 Feb 2021 19:48:46 (IS1		at		•	0	
HOUGHAR															ere to

- 3. Select **API Portal** and select the required communities. The default community is public and all users have access to this community.
- 4. Click **Publish**.

The API is published to API Portal.

For more information, see the Publish APIs section in the *webMethods API Gateway User's Guide*.

How Do I View the published API?

You can view the published API in API Portal Gallery.

> To view the API in API Portal

1. Log on to API Portal and click **API gallery** in the navigation bar.

The API gallery appears.

WEBMETHODS API Portal	API gallery	API packages	App gallery				4-
Iome APS gallery						Back	1
API gallery					API group		
(IEST)							
EmployeeServi	ce.js						
API for managing emplo services	oyee						
₽ BETA							
View details >	69 - C						
Copyright © 2014 - 2020 Softwa Ind/or its subsidiaries and/or its			A inc., Reston, VA, USA,		Privacy Terr	S softwar	100

2. Click **View details** of your API to view API details.

Try an API

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How Do I Request API Key to Access a Protected API?

When you have enforced an API with the Identify and Authorize policy with API Key, your consumers have to follow these steps to get access to your APIs.

The Identify & Authorize policy is used to identify the application, authenticate the request based on policy configured and authorizes it against all applications registered in API Gateway.

To request an API key

- 1. Log on to API Portal and click API gallery.
- 2. Click **View details** for the required API. The details of the selected API appear.
- 3. Click Get access token to request an access token to access and use the API.

This option is available only for the latest API version.

WEBMETHODS API Portal	API gallery	API packages	App gallery	Support	Geere			4-
Home / API gallery / Di About Employeesterios ja ani bertata API tesouces API tesouces API tesouces API componenta Other attitutos		Employe	eeServio	ce.json	f⊠	Version 1.0 (Beta) What's next? Bupport forum Get access token Unfollow that API Expert API as	/ Bac	
API documents API policies Access API ruttridis infromation Latest posts Tity APIn	API for managing	imployeeServic employee services employee services	ejson		✓ Edit	Download Client SDK	0	
		0112200				List of followers	0	

The access tokens are supplied to the client by the resource owner.

How Do I Test a REST API in API Portal?

When you have enforced an API with the Identify and Authorize policy with API Key, your consumers have to follow these steps to get access to your APIs in order to test them. If you have specified an Approval Configuration in API Gateway, the access tokens are automatically approved if the Identify and Authorize policy is applied with OAuth, JWT, or API Key.

> To test a REST API

- 1. In the **API gallery** page, click **View details** for the required API and click **Try API**.
- 2. Select the required stage of the API that you want to test, in the Environment field.

The applications associated with the selected stage appear in the **Applications** field.

3. Select an **Application** to test.

The associated resources appear.

4. Select a resource.

The methods associated with the resource that can be tested appear.

5. Click a method and type a value for the path parameters and a query parameter and its corresponding value.

EmployeeService.json					
Sendbox Application	POST + Htp.//SAG-	204MH2 5555 Systemas Constrained Service, porch 1 (c) with			- SCND
Aa01 (*					
IT MEDIACES	Request Pereneters Authoriza	rfon Headers (1) Body			Clear
et	1.382.55.5.5				
Paul	Authorization type	GAuth 2.0	- Available to No tobers a		
(Part.	Toere name		The Editors a	1.00.00	
rt/(prtid)	Grant hose				
Ulpetid/uploadimage		Authoritian Cade	*		
rt/fiedbyStatus	Authorization UPL	18ps./SAG-9207MH2:SS43/Involve/pail.epigateway.caut	N2/authorize		
rUfindByTaga	Access token UPL	Https://SAG-R20YMHC.SSAD/Involve/pub.apigateway.ceut	12/getAccessToken		
ore/inventory	Redirect (RL/s)				
ione/ordier	annes series	Titles //deepportal99 ear all segrats/apportanel/v1/o	all Contained		
ione/ordec/(orderid)	Clievil (0	30540cmb-7963-454c-8596-7eveR4007bcd			
HET .	Client secret				
en/(usenname)	Minamidal (
en/createWithAmay	Scope(s)				
ser/createWithList			2		
set/liogin	Credentials in	As Bosic authorization beadw	141		
tuogol/res		Get token			
		Same School I			

- 6. In the **Authorization** tab, select the required **Authorization Type** and provide the corresponding API key to identify and validate your identity.
- 7. Type in the required **Header names** and corresponding values in the **Headers** tab and click **Send**.

The request and the response of the API appear.

API Gateway saves the details of access requests made to use an API and reports the data required to analyze the performance and usages of APIs through the **API Analytics** dashboard.



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How Do I View API Analytics?

You must enable the Transaction Logging policy to capture the analytics data of APIs. For information on enabling the policy, see "How Do I Enable Transaction Logs?" on page 24.

> To view API analytics

1. Go to **APIs**, select your API from the list of APIs, and click the **Analytics** tab.

You can view the performance analytics data of the selected API.



The tab displays the data for events incurred in last 12 hours.

2. Select **Custom** and select the period that you want to view analytics and click **Apply filter**.

The **Analytics** dashboard is refreshed based on your input criteria.

For more information, see the API Analytics section in the *webMethods API Gateway User's Guide*.

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Quick Start Cheat-sheet

X	Install	Install API Gateway	Install API Portal
	Create API	Create API from a JSON file	View API Details
J.	Secure API	Enable Identify & Authorize Policy	Enable Transaction Logging
	Publish API	Configure API Portal as Destination	Publish to API Portal
	Consume or Test API	Test API	
	Analyze API	View API Analytics	