Password Safe 23.2 Resource Broker Installation and Configuration

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Password Safe Cloud Resource Broker Installation and Configuration Guide

This document explains how Password Safe Cloud uses resource brokers within resource zones to manage resources across segmented networks, and how to configure resource zones. By configuring resource zones effectively, you have centralized control over resource allocation, enhanced security, and the ability to meet compliance standards, providing you with peace of mind and a smoother resource management experience.

A resource zone is a group of resources on your network. You can have a maximum of 51 resource zones to meet the requirements for how your network is segmented; however, one zone for your entire network is sufficient. At least one resource zone is required. Password Safe Cloud creates a default resource zone called **Default**, which is a catch-all for all domains and workgroups in your network, and cannot be edited.

Password Safe Cloud uses resource brokers to communicate with the systems in your resource zones. A resource broker is a bundle of software that contains all of the services and components required for Password Safe Cloud to interact with your on-premises servers using TCP 443 for communication.

You must download the **Resource Broker Installer** from the Password Safe Cloud portal and install the broker on a Windows Server 2019 x64 or greater system in your network. Each resource zone must have at least one resource broker installed, but we recommend you install two or more for efficiency and redundancy of functionality. You may install up to 200 resource brokers across all of your zones. All 200 may be in one zone or dispersed across each of your zones. You cannot generate an install key or run the installer once this threshold is reached.

Note: Installing a resource broker on Windows 2016 x64 is supported; however, Windows 2019 x64 is recommended.

A resource zone uses a collection of resource brokers to handle the following four core Password Safe functions. Azure uses a roundrobin technique to communicate with the resource brokers within the zone to handle these functions.

- Authentication against LDAP/Active Directory: Allows authentication into Password Safe against your local LDAP/Active Directory domains.
- Asset and Account Discovery: Uses a discovery scanning agent to discover assets and accounts in your network.
- Credential Management: Changes passwords or SSH keys on a scheduled or on-demand basis.
- Session Proxy: Acts as a proxy to allow a standard user to open SSH or RDP sessions on systems in your network.

For more information on the services that are bundled with a resource broker, please see <u>"Troubleshoot Resource Broker</u> Issues" on page 17.

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Resource Broker Installation Prerequisites

Resource brokers require software, hardware, and system resources as detailed below.

Component	Requirement
Operating System	Windows Server x64 2016 (minimum)
	Windows Server x64 2019
	Windows Server x64 2022 (recommended)
	Note: Server Core edition is not supported.
Processor	4 cores
Memory	16GB
Disk	100MB (for Resource Broker software)
	64GB (for local caching of sessions)
	Note: 64GB allows for 14 days worth of sessions, assuming about 200 RDP and 200 SSH sessions per day, where the average session time is about one hour per session. RDP sessions would be 4.2GB per day; SSH sessions would be 0.3GB per day.
Server Requirements	Microsoft .NET Framework version 4.7.2 on Windows Server 2016
	 Must be preinstalled manually, or internet connectivity must be present to allow for dynamic installation.
	• For this method, IE Enhanced Security must be disabled from Server Manager.
	TLS 1.2
	 If the resource broker installation is successful, then this is already enabled and no changes are needed.
	 If the installation is unsuccessful and exhibits the error described in the TLS Configuration section, then see the resolution provided there.
	Note: If a web proxy is between the resource broker and Azure, the resource broker install will likely fail.

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Install a Resource Broker

Each resource zone must have at least one resource broker installed on a Windows 2019 x64 or Windows 2022 x64 server in your network. If your deployment has only one resource zone, which is **Default**, you must install at least one resource broker in the **Default** zone. We recommend installing two or more resource brokers in each resource zone for work distribution and redundancy. You can install 200 resource brokers across all of your zones. All 200 may be in one zone or dispersed across each of your zones. You cannot generate an install key or run the installer once this threshold is reached.

Note: If using a proxy or firewall, allow traffic from the resource broker outbound on port 443 before installation. External traffic includes:

• <yoursite>.ps.beyondtrustcloud.com or the IP this URL points at

Download and Install Resource Broker

- 1. From the left menu in BeyondInsight, click Configuration.
- 2. Under Privileged Access Management Agents, click Resource Zones.
- 3. Click Show Install Key.

BeyondInsigh	t Configuration st > Privileged Access Management Agents > Resource Zones
Resource Zones	
Zones Brokers	
Filter by	
Ŧ	
Create New Resource	e Zone 🛃 Download Installer 🥬 Show Install Key
26 items	Description
Resource zone	Description
Default	Default Zone
Installer Key	
This is your installer key:	
	C

Close

5

4. Click the **Copy** button to copy the installer key. The installer key is required for step 9.

Regenerate



5. Click Download Installer.

BeyondInsight	Configuration Privileged Access Management Agents > Resource Zones
Resource Zones	
Zones Brokers	
Filter by	
τ	
Create New Resource Zor	ne Download Installer 🤌 Show Install Key
26 items	
Resource Zone	Description
	an later francia finance from
1111	
Default	Default Zone

- 6. Copy the downloaded **BeyondTrust.Agents.Bootstrapper.exe** file to the Windows server where you would like to install the resource broker, and then run the file.
- 7. Click Install.

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b	BeyondTrust Resource Bro Bundle - 23.	ker	

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8. Click Next on the welcome screen.

		Install	Close
BeyondTrust Resource Brok	er · Setup	_	□ ×
b	Welcome to the E Resource Broker Setup Wizard	BeyondTru -	st
	The Setup Wizard will ins Broker - Next to continue or Canc	tall Beyond Trus I on your compi el to exit the S	t Resource uter. Click letup Wizard.
	Back	Next	Cancel

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- 9. Paste the **Install Key** that you copied in step 3 into the **Install Key** field, and then click **Next**.
- × Install key Please enter the install key to continue. Install Key: Г <u>B</u>ack <u>N</u>ext Cancel \times Select a zone Select a zone Please select a zone to continue. Zone: defaultzone (defaultzone) \sim Back Next Cancel 🛃 BeyondTrust Resource Broker - 📒 Setup X License Agreement read the following license agreement carefully SOFTWARE LICENSE AND SUBSCRIPTION ^ AGREEMENT IMPORTANT - PLEASE REVIEW CAREFULLY THE TERMS OF THIS SOFTWARE LICENSE AND SUBSCRIPTION AGREEMENT. BY CLICKING 'ACCEPTED AND AGREED TO," CUSTOMER AGREES TO THESE TERMS AND CONDITIONS. This Software License and Subscription Agreement (this "Agreement") is a contract between BeyondTrust Corporation, a Delaware corporation I accept the terms in the License Agreement Print Cancel Back Next

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11. Check the box to accept the license agreement terms, and then click **Next**.

10. Select a resource zone from the Zone list, and then click Next.

12. Click **Next** to install to the default folder or click **Change** to install to a different folder, and then click **Next**.

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Destination Fold	er efault folder o	click Chang			
Install BeyondTrust Resource Bro	iker -	to:	:		
C:\Program Files\BeyondTrust\R	esource Broke	r\			
<u>C</u> hange					
	Ba	ik <u>N</u> α	ext	Cance	el
BeyondTrust Resource Broker -	S	etup	-		×
Install Bevond	<mark>Frust</mark> Re	source	Brok.		
Click Install to begin the installat your installation settings. Click C	tion. Click Bacl	c to review c the wizard.	or change	any of	
	Back	Instal		Cance	el
🔀 BeyondTrust Resource Broker - 💷) S	etup	_		×
Cor Res Set	npleted t source Br tup Wizar	he Beyoı oker - d	ndTrus	t	•
Click	the Finish but	ton to exit t	he Setup	Wizard.	
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13. Click **Install** to begin the installation.

14. Click **Finish** to complete the Setup Wizard.

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15. Click Close on the Installation Successfully Completed screen.



Close

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16. Go the BeyondInsight home page to validate the dynamic dashboard has updated the **Resource Zones** and **Resource Brokers** tiles for this newly installed resource broker.

Update a Resource Broker

You can update resource brokers from the **Brokers** grid on the **Resource Zones** page. Resource brokers are in one of two update states, as displayed in the **Update** column:

- Up to date
- Update available

For brokers that have an update available, click the vertical ellipsis for the broker, and then select **Update Resource Broker**. A confirmation message appears, stating that the update is queued for installation.

BeyondInsigi	nt Configuration	urce Zones	🚽 Quick Naw	igation e
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Zones Brokers				
Filter by				
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				C 0
14 Items DNS Name	Resource Zone	Wession	Update	
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and the second second	10.000	23.2.0.1729	Update available (23.3.0.178 📥 Download Resource	e Broker Logs
And in case of the local diversion of the local diversion of the local diversion of the local diversion of the	101	23.3.0.1770	Update available (23.3.0.178 Update Resource Br	roker
	100.0	23.3.0.1770	Update available (23.3.0.1783)	
		22.20.1722		

Once the update is installed, the Update column displays Up to date for that broker.

Note: When a resource broker is **Up to date**, there is no option to update the resource broker from the broker's vertical ellipsis menu.

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Manage Resource Brokers

From the **Brokers** grid on the **Resource Zones** page, you can check the health status for your resource brokers. Each of the services for a specific resource broker checks into Password Safe Cloud independently with a heartbeat every 5 minutes. You can also unregister and delete resource brokers from this page.

- 1. From the left menu in BeyondInsight, click Configuration.
- 2. Under Privileged Access Management Agents, click Resource Zones.
- 3. Select the Brokers tab.
- 4. Look at the Status column for the resource broker to view its health status. A warning symbol appears if one of the services misses two heartbeat intervals (hasn't checked in for 10 minutes). A green check mark displays if all of the services for that broker have checked in as healthy.
- 5. To view the details for the services on a specific broker, click the vertical ellipsis button for the broker, and then click **View Details**.

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Resource Zones					
Zones Brokers					
Filter by					
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14 items				0	Q
DNS Name	Resource Zone		Update		
-		23.3.0.1783	Up to date	۲	1
and the second second	10-10-1	23.2.0.1729	Update available (23.3.0.1783)	4	1
		23.3.0.1770	Update available (23.3.0.1783) One or mo	re services have reported	d as unit
		23.3.0.1770	Update available (23.3.0.1783)	۲	1
		23.3.0.1770	Update available (23.3.0.1783)	A	1
		23.3.0.1770	Update available (23.3.0.1783)	A	÷
		23.3.0.1770	Update available (23.3.0.1783)	۲	1
H A Page 1	of 1 🕨 対	25 • items per page		Showing Items 1-14	4 of 1

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6. You can review the version, the time the service last updated, and the health status for each service on the broker.



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7. To delete a resource broker, you must manually uninstall it from the system where it was installed. This automatically unregisters the resource broker from the zone. To remove it from the **Resource Zones** page, click the vertical ellipsis button for the broker, select **Unregister Resource Broker**, and then click **Delete** on the confirmation message that appears.

Download Resource Broker Logs

From the Brokers grid on the Resource Zones page, you can request and download resource broker log files.

- 1. From the left menu in BeyondInsight, click Configuration.
- 2. Under Privileged Access Management Agents, click Resource Zones.
- 3. Select the Brokers tab.
- 4. Click the vertical ellipsis button for the broker, and then select **Download Resource Broker Logs**.

BeyondInsigh	Configuration > biblieged.dcccss.Management.dgests > Resource Zones			
Resource Zones				
Zones Brokers				
Filter by				
т				×
				C 🗘
14 items				
DNS Name	Resource Zone	Version	Update	Status
	101100	23.3.0.1783	Up to date	o 🚺
	1.00	23.2.0.1729	Update available (23.3.0.178	View Details
		23.3.0.1770	Update available (23.3.0.178	Unregister Resource Broker
		23.3.0.1770	Update available (23.3.0.178	Download Resource Broker Logs
		23.3.0.1770	Update available (23.3.0.178ay	ð 👝 👖

- 5. A pop up message confirms the download is preparing, and the logs download to your device as one compressed file.
- 6. Open the compressed file to view the log files available and select the log file to view. Log files are in plain text format.

Configure Resource Zones

Create a Resource Zone

One resource zone is required for your environment. This is the built-in **Default** zone. The **Default** zone is a catch-all for all domains and workgroups in your network and cannot be edited. You can create a maximum of 50 additional resource zones for your environment.

To create a new resource zone:

- 1. From the homepage in BeyondInsight, click the Configure Zones tile.
- 2. Click Create New Resource Zone.

BeyondInsight	Configuration Privileged Access Management Agents > Resource Zones
Resource Zones	
Zones Brokers	
Filter by	
T	
Create New Resource Zon	e 🛃 Download Installer 👂 Show Install Key
26 items	
Resource Zone	Description
10000	an later for all feature loss
11mm	
Default	Default Zone

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- 3. Enter a **Name** for identifying the resource zone. This can be up to 64 characters and cannot contain spaces.
- 4. Enter a meaningful **Description**.
- 5. Under Domains, select a domain from the list.

Create Resource Zone			
Name 🕜			
Eastern-Zone			8
Description (optiona	al)		
Eastern-Zone			8
		٦	
Domains (0)	Workgroups		
Select from the list to this Resource 2	st of available do Zone.	mains to assign the	m
I	Deselect All	Add Domain	Ð
Create Resourc	ce Zone Dis	card Changes	

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Tip: A domain or LDAP server is used for anything that Password Safe needs to obtain from a directory, such as authentication, directory queries, directory credentials, binding credentials, etc. Domains and LDAP servers that have already been discovered in Password Safe and are not already associated with a resource zone are listed. You can manually add a domain or LDAP server that has not yet been discovered as follows:

- 1. Click Add Domain +.
- 2. Enter the domain or LDAP server name in the **Domain** box.
- 3. Click Add Domain.

Create Resource Zone
Name 🕢
Description (optional)
Domains (0) Workgroups
Select from the list of available domains to assign them to this Resource Zone.
Deselect All Add Domain 📀
Add Domain
Domain
Add Domain Discard

Note: If the selected domain has already been added to the resource zone, the following error message displays:

① The domain has already been added to the resource zone. <u>Dismiss</u>

- 6. Do not select or enter any Workgroups. Instead, allow Password Safe to automatically create a workgroup using the name of the resource zone once the zone is created. A workgroup is used to segment functionality within Password Safe Cloud to specific managed systems. Existing workgroups that are not already associated with a resource zone are listed.
- 7. Click Create Resource Zone.

Edit and Delete Resource Zones

You can edit or delete resource zones as follows:

- 1. On the **Resource Zones** page, click the vertical ellipsis button to the right of the resource zone in the grid.
- 2. Select Edit Resource Zone or Delete Resource Zone.

Note: Editing a resource zone provides the same options as creating a resource zone, as documented in the steps above. You cannot delete a resource zone that has resource brokers associated with it. You must unregister all resource brokers from the zone first.

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Troubleshoot Resource Broker Issues

Error: "The client and server cannot communicate, because they do not possess a common algorithm"

Summary

When trying to install the Resource Broker Bundle, after entering the install key, you receive a communication error indicating "*The client* and server cannot communicate, because they do not possess a common algorithm". The following exception is indicated in the install log:

Failed to execute SetComboboxZonesCustomAction System.AggregateException: One or more errors occurred. ---> System.Net.Http.HttpRequestException: An error occurred while sending the request. ---> System.Net.WebException: The underlying connection was closed: An unexpected error occurred on a receive. -> System.ComponentModel.Win32Exception: The client and server cannot communicate, because they do not possess a common algorithm at System.Net.SSPIWrapper.AcquireCredentialsHandle(SSPIInterface SecModule, String package, CredentialUse intent, SecureCredential scc) at System.Net.Security.SecureChannel.AcquireCredentialsHandle(CredentialUse credUsage, SecureCredential& secureCredential) at System.Net.Security.SecureChannel.AcquireClientCredentials(Byte[]& thumbPrint) at System.Net.Security.SecureChannel.GenerateToken(Byte[] input, Int32 offset, Int32 count, Byte []& output) at System.Net.Security.SecureChannel.NextMessage(Byte[] incoming, Int32 offset, Int32 count) at System.Net.Security.SslState.StartSendBlob(Byte[] incoming, Int32 count, AsyncProtocolRequest asyncRequest) at System.Net.Security.SslState.ForceAuthentication(Boolean receiveFirst, Byte[] buffer, AsyncProtocolRequest asyncRequest) at System.Net.Security.SslState.ProcessAuthentication(LazyAsyncResult lazyResult) at System. Threading. ExecutionContext. RunInternal (ExecutionContext executionContext, ContextCallback callback, Object state, Boolean preserveSyncCtx) at System. Threading. ExecutionContext. Run (ExecutionContext executionContext, ContextCallback callback, Object state, Boolean preserveSyncCtx) at System. Threading. ExecutionContext. Run (ExecutionContext executionContext, ContextCallback callback, Object state) at System.Net.TlsStream.ProcessAuthentication(LazyAsyncResult result) at System.Net.TlsStream.Write(Byte[] buffer, Int32 offset, Int32 size)at System.Net.ConnectStream.WriteHeaders(Boolean async)

Cause

If the .NET framework version is less than 4.6, the **SchUseStrongCrypto** registry key defaults to **0**. This key must have a value of **1** to use TLS 1.2. If .NET is greater than 4.6, this registry key defaults to **1** without having to make changes to it.

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Resolution

Set the SchUseStrongCrypto (DWORD) registry key found under HKLM\SOFTWARE\Microsoft\.NETFramework\v4.0.30319 to a value of 1 to force the use of TLS 1.2, and then restart the system.

Note: If the SchUseStrongCrypto registry key does not exist, you must create it.

Resource Broker Service Details

A resource broker bundle installs the following services on the Windows server where you run the bootstrapped install file:

- Resource Broker Gateway
- Resource Broker Listener
- Resource Broker Management Agent
- Password Services
- Password Services Framework Agent
- Connector Services Agent
- Directory Services
- Discovery Scanner
- Session Monitoring

We have outlined the details for each of these services below.

Resource Broker Gateway

- · Service properties:
 - Service name: bt_resourcebrokergateway_agent
 - Display name: BeyondTrust Resource Broker Gateway Agent
- Acts as the local services communication hub for all zone and agent requests.
 - Proxies all requests down to the directory, password, and session monitoring services from the resource broker listening agent (described in next section).
 - Proxies all requests up to the Azure Relay Hybrid Connection in the PS Cloud instance.
- Executes password tests and password changes for managed systems and managed accounts.
- Handles the initial resource broker registration and configuration.
- Contains platform-specific modules.
- Sends heartbeat to cloud every 5 minutes.
- Utilizes PS Cloud identity service as the API authority. All requests to this service receive a token from the PS Cloud identity service.
- Log files for this service are located in C:\Program Files\BeyondTrust\Resource Broker\ResoureBrokerGateway\logs.

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For more information on Azure Relay Hybrid Connections, please see Azure Relay Hybrid Connections protocol at https://docs.microsoft.com/en-us/azure/azure-relav/relav-hvbrid-connections-protocol.

Resource Broker Listener

- · Service properties:
 - Service name: bt resourcebrokerlistener agent
 - Display name: BeyondTrust Resource Broker Agent
- Acts as a reverse proxy for all requests from Password Safe Cloud for a resource zone through the Azure Relay Hybrid Connection in a round-robin process.
- Forwards requests to the Resource Broker Gateway.
- Listens on a zone-specific hybrid connection for resource-specific requests, such as password tests and directory queries.
- Listens on an agent-specific hybrid connection for target-specific requests, such as session monitoring.
- · Sends heartbeat to cloud every 5 minutes.
- Log files for this service are located in C:\Program Files\BeyondTrust\Resource Broker\ResoureBrokerListener\logs

Resource Broker Management Agent

- · Service properties:
 - Service name: bt resourcebrokermanagment agent
 - Display name: BeyondTrust Resource Broker Management Agent
- · Handles resource broker upgrades and log uploads.

Password Services

- Service properties:
 - Service name: bt passwordservices agent
 - Display name: BeyondTrust Password Services Agent
- Executes password tests and password changes for managed systems and managed accounts.
- Contains platform specific modules.
- Sends heartbeat to cloud every 5 minutes.
- Utilizes PS Cloud identity service as the API authority. All requests to this service receive a token from the PS Cloud identity service.
- Log files for this service are located in C:\Program Files\BeyondTrust\Resource Broker\PasswordServices\logs.

Password Services Framework Agent

- · Service properties:
 - Service name: bt passwordservicesframework agent
 - Display name: BeyondTrust Password Services Framework Agent

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• Performs the same actions as the Password Services agent, but specifically handles vSphere and SAP platforms.

Connector Services Agent

- Service properties:
 - Service name: bt_connectorservices_agent
 - Display name: BeyondTrust Connector Services Agent
- Sends events for forwarding connectors.

Directory Services

- · Service properties:
 - Service name: bt_directoryservices_agent
 - Display name: BeyondTrust Directory Services Agent
- Executes the following Active Directory or LDAP actions:
 - Directory queries
 - Directory credentials tests
 - Group enumeration
 - User and group management
 - Authentication
- Sends heartbeat to cloud every 5 minutes.
- Utilizes PS Cloud identity service as the API authority. All requests to this service receive a token from the PS Cloud identity service.
- Log files for this service are located in C:\Program Files\BeyondTrust\Resource Broker\DirectoryServices\logs.

Discovery Scanner

- Service properties:
 - Service name: btdiscoverysvc
 - Display name: BeyondTrust Discovery Service
- Schedules and executes Discovery Scans.
- Is auto-configured by obtaining the configuration via the Resource Broker Gateway.
- Communicates directly to PS Cloud via the client certificate that Event Services uses for Central Policy.
- · Requests bearer token from PS Cloud identity service for its initial configuration.

Note: The scanner obtains the configuration upon startup only. Once it begins using Central Policy, it doesn't need to continue requesting the configuration.

· Log files for this service are located in C:\Program Files\BeyondTrust\Discovery\logs.

Session Monitoring

- Service properties:
 - Service name: btPBPSSM
 - Display name: BeyondTrust Session Monitoring
- Session monitoring proxy for SSH and RDP sessions.
- · Sessions are proxied through the local agent.
- The session is associated with a broker that responds in a zone round robin.
- Active session monitoring (locking + termination) are proxied from PS Cloud to the resource broker.
- Session I/O logs are are written locally to the resource broker and when a session is complete, the I/O logs are copied to your customer storage account in Azure.
- Session replay in PS Cloud is done directly from your customer storage account in Azure.
- Sends heartbeat to cloud every 5 minutes.
- Log files for this service are located in C:\Program Files\BeyondTrust\Resource Broker\Session Manager\logs.

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