Loadbalancer.org ADC Portal

Version 1.0.3

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1. Introduction

The ADC Portal is an ultra-secure, cloud-based ADC management platform that enables ADCs from multiple vendors to be centrally monitored and managed. ADCs from F5, Citrix Netscaler, Progress Kemp and Loadbalancer.org are currently supported.

Enhance Visibility

The ADC Portal provides a single consolidated view of all load balancing assets, wherever they are located. Key information such as the operational state, HA status, software version and IP address of all ADCs can easily be viewed. ADCs can be grouped and organised using custom Namespaces and Tags to simplify management. One-click access to any ADC's WebUI directly from the Portal is also provided whether the ADC is located locally or in a completely different network.

Improve Security

The Portal simplifies security management in multiple ways. Continuous, real-time CVE (Common Vulnerabilities and Exposure) monitoring of all ADCs ensures that any issues found are highlighted and can be promptly dealt with. SSL certificates installed on each ADC are also monitored and any that have expired or are expiring soon are highlighted. Software update notifications to inform when a new version is available for each ADC is coming soon.

Automate Tasks

ADC backups can be scheduled to run once or on a daily, weekly, monthly or annual cadence. Each backup is encrypted and securely stored in the ADC Portal and can be easily viewed, restored, downloaded for storage elsewhere or deleted. The ability to schedule other tasks including software updates is coming soon.

2. Technology

The ADC Portal is built on a zero-trust security model and uses full end-to-end encryption. This approach ensures that all data within the Portal is always encrypted (both at rest and in transit) using a unique pair of organisation and account private keys. This means that no one can ever see or read your data, and that all data encryption and decryption occurs within your own environment.

2.1. Communication

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All communication takes place via a secure WebSocket protocol (WSS) with mTLS. With mTLS, the client is required to present its certificate to the server (and visa versa). Hence mutual certificate authentication occurs. This double layer of authentication provides an additional layer of protection against impersonation attacks. And it is only once this two-way authentication has taken place that a secure connection is established, leading to the exchange of data.



Within this encrypted WSS channel, there are two methods of communication:

Event-driven requests

Explicitly defined requests are sent as events to the Shuttle for added security and efficiency.

Remote HTTP proxy

This is a WARP-enabled, remote HTTP proxy to your network. It allows you to see the WebUI of each appliance and provides a facility to manage it over an encrypted connection across the Loadbalancer.org ADC Portal network.

2.1.1. WARP

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WARP is a proxy that helps you connect to the internet while simultaneously optimizing and securing (i.e. encrypting) your connection, giving you access to you appliance, no matter where you are.

2.1.2. PGP Encryption for Extra Security

In addition to the secure WebSocket encryption outlined above, the Portal also contains a second layer of security: PGP encryption.



Once the initial mTLS handshake has been completed, the Shuttle then creates its own PGP keys, which are then used for communication and verification with the ADCs. However, before data can be transferred from the client to the Shuttle, it must first pass through an intermediary key. This Certificate Chain enables the receiver to verify that the sender and all Certificate Authorities are trustworthy.

Every user needs not only their own private key, but also a copy of the organisation key to read the data that's coming in from the Shuttle. This means new users will need to be invited by the organisation to register, and actively given a copy of the organisation key (as well as activating their own private user key). In this way it is the organisation who is the owner of everything - not the user.

And with the potential for multiple levels of encryption using different keys, it would be almost impossible to decrypt what is imprinted on the public key without also being in possession of a private key. In this way, if someone were to compromise or intercept the messages being transmitted by the Shuttle, break the TLS encryption and obtain the encrypted PGP data, they would still need the Shuttle's private key to be able to read it.

In this way, data communications are sent via the Shuttle which acts as an intermediary or sidecar agent. but the Shuttle is unable to read these messages. Its only role is to act as a vector to forward this information when, and only when, the private and public keys match.

2.2. ADC Communication Services & Methods

As discussed above, the Shuttle is a key component in ADC portal communication. In addition, the gateway service is used on Loadbalancer.org appliance and API calls are used with 3rd party appliances.

Shuttle Service

A Shuttle can be provisioned as a standalone Linux instance running the Shuttle service or as a Loadbalancer.org ADC appliance with its Shuttle service enabled.

Gateway Service

The gateway service applies to Loadbalancer.org ADC appliances only. When enabled, it's used to gather Loadbalancer.org appliance details and pass them to a Shuttle. It also enables appliance backups and other remote tasks to be run.

Vendor Specific API Calls

Used to gather details for ADC appliances from 3rd party vendors and pass them to a Shuttle. API calls are also used to control ADC appliance backups and other remote tasks.

2.3. Connection Options

There are a number of ways that the connection to the ADC Portal can be provided. The sections below describe each option.

2.3.1. Single Shared Connection with Single Dedicated Shuttle

All Portal communication is handled by a dedicated Shuttle separate from all load balancing workload.



- Requires a single shared connection to the ADC Portal.
- Requires a single Shuttle, this can be either:
 - A Standalone Shuttle.
 - A dedicated Loadbalancer Enterprise appliance with the Shuttle service enabled.
- All appliances communicate with the ADC Portal via the standalone Shuttle/dedicated loadbalancer.org ADC.

ឱ Note	If the Shuttle is to be used to monitor & control ADCs in remote subnets, those subnets must be configured on the Shuttle (subnets can be configured for the standalone Shuttle only). For more information, please refer to Network Topology. Alternatively, an additional Shuttle can be added to each remote subnet to serve those ADCs.
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- The Gateway service on each Loadbalancer.org appliance must be enabled.
- The API must be enabled on all non Loadbalancer.org appliances.

2.3.2. Single Shared Connection with Single Non-Dedicated Shuttle

All Portal communication is handled by a designated Loadbalaner.org appliance in addition to its own load balancing workload.



- Requires a single shared connection to the ADC Portal.
- Requires a single Shuttle the Shuttle service on a Loadbalancer.org ADC must be enabled.
- All appliances communicate with the ADC Portal via the Shuttle service on the chosen ADC.

8 Note

The Shuttle should be deployed in a subnet that has access to all ADCs to be monitored & managed. If this is not possible, an additional Shuttle can be added to each remote subnet to serve those ADCs. Alternatively, a standalone Shuttle with all remote subnets configured can be used as described in Single Shared Connection with Single Dedicated Shuttle.

- The gateway service on each Loadbalancer.org appliance must be enabled.
- The API must be enabled on all non Loadbalancer.org appliances.

2.3.3. Multiple Connections and Multiple Non-dedicated Shuttles (Loadbalancer.org ADCs Only)

Each Loadbalancer.org appliance handles its own Portal communication in addition to its own load balancing workload.



- Each appliance has its own connection to the Portal.
- The gateway and Shuttle services on each Loadbalancer.org appliance must be enabled.

3. Getting Started

3.1. Account Creation

(1) Important If a new user requires access to an existing organisation, the user must be created within that organisation. For more details, please refer to User Management.

1. Navigate to the ADC Portal home page (https://portal.loadbalancer.org) and click the Create account link.



2. Enter the email address to be associated with the new account and click Create account.



3. An activation email will be sent to the email address provided to verify and complete your registration. Open the email and click on the link to start the account activation process.

8 Note

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If the activation email doesn't arrive, be sure to check in any spam folders. The activation email will come from portal@loadbalancer.org.

바 LOADBALANCER	Activate account
	First name* Harry Last name* Smith Password* Confirm password*
Smart. Flexible. Unbreakable.	Next

4. Provide a first and last name, set a password, and click Next.

마니 LOADBALANCER	Activate account
	its validation, and therefore requires that you download and store it in a safe place. <u>IbUserPrivate.key</u>
Smart. Flexible. Unbreakable.	Complete Account Activation

5. Download the private key for the new account by clicking on the download link. Be sure to store the key in a safe place.



6. Once the account's private key has been downloaded, the **Complete Account Activation** button can be clicked to complete the activation process.



7. Once clicked, you'll be prompted to enter details about the organisation.

Smart Elevible Unbreakable	Add your organization To use the Loadbalancer portal you will need to add some organization details. Organization Name* Loadbalancer.org Contact Number* ±44 ✓ 1234567890 Format: 1234567890	à
Smart. Flexible. Unbreakable.	Next	

8. Enter the name and contact phone number for the organisation and click Next.

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바 LOADBALANCER	Organization Private Key Your key is unique to you. Password recovery depends on its validation, and therefore requires that you download and store it in a safe place.
	bOrgPrivate.key
Smart. Flexible. Unbreakable.	Continue To Portal

9. Download the private key for the new organisation by clicking on the download link. Enter the account password when prompted.

(1) Important Resetting user passwords *requires* the organisations's private key. It's important to store the key file in a safe location.

10. Once the organisation's private key has been downloaded, the **Continue To Portal** button can be clicked to finish the process.



Once clicked, the ADC Portal Dashboard will be displayed.

4. ADC Portal Dashboard

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The ADC Portal Dashboard provides a clear and concise overview of all ADC appliances, actions and alerts. It also enables easy navigating directly to any area that requires attention. The Dashboard has six main panels to enable quick and easy access to key areas of the Portal.

4.1. Accessing the Dashboard

The Dashboard is displayed by default after logging in to the Portal. It can also be accessed at any time by clicking on **LOADBALANCER** | PORTAL in the main menu bar at the top of the screen.



4.2. Menu Options

Symbol	Purpose
ILDADBALANCER PORTAL	Access the ADC Portal Dashboard
\bigoplus All \sim	Filter by Namespace, default is all
\bigcirc Services \checkmark	The Services menu - ADCs / Scheduler / Storage / Security
Q Search	Search across all ADC Portal content
Y	View and change ADC Portal subscription options
Ŕ	Access the latest ADC Portal news
$2 \sim$	Create and view support tickets, view ADC Portal service status, provide feedback and access this documentation
\bigcirc \checkmark	The Portal menu - Organisation / Account / Resources / Logout

4.3. ADC List

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Once ADCs have been added to the Portal, the ADC list provides a comprehensive, easy to access overview. It shows the operational and HA status of each appliance and displays key information such as IP address, port and software version. The ADC list can be accessed from the ADCs panel in the Dashboard.

ADC
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5. Account & Organisation Management

5.1. Account

5.1.1. Settings

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To change the account name, contact details or password:

- 1. Click the *Portal* menu icon in the top right corner of the main menu bar and select *Account*.
- 2. Using the menu to the left, select *Settings*.

∃< Accounts	Account Settings	
မ္မိ Single Sign-on (SSO)	HS	
Two-Factor Authentication	First name*	
Recovery	Harry	
(i) Settings	Last name* Smith	
	Contact Number* +44 Format: (+)1234567890 Email* harry@example.com Password Confirm password Leave fields blank if not changing the password	
	Update Settings	0

3. Update the required settings.

1 Note To change the password you'll be prompted to enter your current password.

4. Click Update Settings.

5.1.2. Recovery

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If at any point you forget your password and need to reset it, you will need your user account and organisation private keys. Both keys must be download as part of the sign-up process but can also be downloaded from the ADC Portal at any time.

To download the private keys:

- 1. Click the *Portal* menu icon in the top right corner of the main menu bar and select *Account*.
- 2. Using the menu to the left, select *Recovery*.



- 3. Click the IbUserPrivate.key link to download the user account private key.
- 4. Enter your password when prompted and click Submit.
- 5. Click the **IbOrgPrivate.key** link to download the organisation private key.
- 6. Enter your password when prompted and click Submit.
- 7. Save both private keys in a safe place.

5.1.3. Single Sign-On (SSO)

SSO can be enabled for each ADC Portal account. SSO simplifies Portal access by utilising login credentials from another system. SSO can be enabled using Google Workspace, Azure AD or SAML (depending on subscription level) protocols.

To configure SSO:

- 1. Click the *Portal* menu icon in the top right corner of the main menu bar and select *Account*.
- 2. Using the menu to the left, select Single Sign-on (SSO).

∃< Accounts	Single Sign-on (SSO) Settings		
ළං Single Sign-on (SSO)	Select a SSO client to use for Portal log	in	
Two-Factor Authentication	G Google	Connect	
C Recovery	🔥 Azure AD	Connect	
ලි Settings			
			•

3. Select the relevant **Connect** button and enter the credentials for the account to be used.

4. Follow the steps to complete the process.

 Note
 To configure SAML for the organisation, please refer to Security Assertion Markup Language (SAML).

5.1.4. Two Factor Authentication (2FA)

2FA can be enabled for each ADC Portal account. 2FA requires a unique code in addition to the user's password. This code is supplied to the user via an SMS text message or via an authenticator app such as Google or MS Authenticator.

To configure 2FA:

- 1. Click the Portal menu icon in the top right corner of the main menu bar and select Account.
- 2. Using the menu to the left, select Two-Factor Authentication.



3. Select the relevant Setup button and follow the steps to configure 2FA.

5.2. Organisation

When the first user account is created, the organisation is also created and configured.

5.2.1. User Management

Additional user accounts can be added to the organisation. Permissions granted to each user are based on the role(s) allocated either directly to the user or via group membership and the permissions configured for those role(s).

To add a new user:

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- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the Users panel:

- If this is the first user to be added, click Invite Users.
- if users already exist, click Manage my users.
 - Click the Add user button.
- 3. The Add User form will be displayed:

ల్లి User Management	• User details Email*	
E Security	tom@example.com	
Namespaces	Confirm email* tom@example.com	
산 Subscriptions	 Roles 	
Billing Coming Soon	Groups	
Coming Soon	 Send invite 	
ලි Settings	Ready	

- 4. Specify and confirm the *Email address* of the new user, then click Next.
- 5. Select the required *Role(s)* and click **Next**.
- 6. If any groups have already been configured, select the required Group(s) and click Next.

8 Note	At least one role or group must be selected.
8 Note	For more information on roles and groups, see Roles & Groups below.

- 7. Copy the **one-time passcode** as instructed and enable (check) the checkbox to confirm this was done.
- 8. Click Next, then click Submit.
- 9. Enter your password and click **Submit**. An email with an invitation link will be sent to the email address specified.
- 10. Send the **one-time passcode** to the new user to enable them to complete the enrolment process.

To delete a user:

- 1. Click the three dots menu next to the user to be deleted.
- 2. Click **Delete**, then click **Confirm** to delete the user.

1 Note

5.2.1.1. Roles & Groups

Roles

Roles define a set of permissions that can be assigned to users. Three roles are included by default:

- Owner full access to all data and settings.
- Maintainer full access to all data and settings except for user, group, role and account settings where read
 only access is provided.
- Viewer read only access to all data and settings.

In addition, custom roles can be configured either from scratch or by duplicating one of the default roles and then customizing permissions to suit specific requirements.

To create a new role from scratch:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the Users panel:
 - If there are currently no users defined, click Invite Users.
 - if users already exist, click Manage my users.
- 3. Select the *Roles* tab.
- 4. Click the Add Role button.
- 5. The Add Role form will be displayed:

≡ <	🖫 Organis	sation	Add Role	
÷	User Managemer	nt	Role details Role name*	
•	Namespaces		Role management	
5	Subscriptions	Coming Soon	Ready	
Ç	Licensing	Coming Soon		
ම	Settings			
			Cancel Back Next	0

6. Specify an appropriate *Role name*, e.g. Manage Schedules and click Next.

7. Under the Role Management section either click Expand all or expand the relevant section(s) individually.

∃< ⊡≗ Organisation % User Management	 Role details Role name: Manage Schedules Edit > Role management 					
						Expand all
Namespaces	ADCs					>
	Backups					>
Billing Coming Soon	Scheduler					~
Dicensing Coming Soon		Create	Read	Update	Delete	Select all
② Settings	Add or list schedules Update or delete a schedule			 ✓ 	 ✓ 	
	Certificates					>
	Cancel Back Next					Q

- 8. Select the required permissions. In the example above, all permissions related to schedules have been granted.
- 9. click Next, then click Submit.

To create a role by duplicating an existing role:

- 1. In the User Management form select the Roles tab.
- 2. Click the three dots menu next to the role to be duplicated.
- 3. Click Duplicate.
- 4. Specify a name for the new role and click Next.
- 5. Under the *Role Management* section either click **Expand all** or expand the relevant section(s) individually.
- 6. Customise the required permissions.
- 7. Click Next, then click submit.

To delete a role:

- 1. Click the three dots menu next to the role to be deleted.
- 2. Click **Delete**, then click **Confirm** to delete the role.

Groups

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A group can have one or more associated roles and each group can contain multiple users. This enables user permissions to be assigned based on group membership.

To create a group:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the Users panel:
 - If there are currently no users defined, click Invite Users.
 - if users already exist, click Manage my users.
- 3. Select the *Groups* tab.
- 4. Click the Add Group button.
- 5. The Add Group form will be displayed:

∃< 🖳 Organisation	Add Group	
ළු User Management	 Group details Group name* 	
😨 Security	Manage Schedules	
Mamespaces	Select roles	
싼 Subscriptions	Select users	
Billing Coming Soon	Ready	
Licensing Coming Soon		
ලි Settings		
	Cancel Back Next)

6. Specify an appropriate Group name, e.g. Manage Schedules and click Next.

Ξ	< 🖫 Organisation	Add Group	
مح	^g User Management	Group details Group name: Manage Schedules	
₩	 Security Namespaces 	 Edit > Select roles (optional) 	
צ	y Subscriptions	Owner Maintainer	
E	Billing Coming Soon	Viewer Manage Schedules	
ę	Settings	Select users Ready	
		Cancel Back Next	0

- 7. Select the role(s) to be associated with the group (this can be done later if preferred), then click Next.
- 8. Select the user(s) that will be members of the group (this can be done later if preferred), then click Next.
- 9. Click Submit.

As an example, if multiple users were associated with the default Viewer role when first created, they would have read only access to all data and settings. If you wanted to allow those users to configure and manage schedules, they could be made members of the **Manage Schedules** group created above. Since the **Manage Schedules** role created above is associated with this group and provides full permissions to all scheduler related functionality, this would grant the required permissions.

To delete a group:

- 1. Click the three dots menu next to the group to be deleted.
- 2. Click **Delete**, then click **Confirm** to delete the group.

5.2.2. Security

5.2.2.1. Portal Activity Audit Log

Auditing enables Portal admin users to track events occurring on the Portal. Tracked information includes date/time, user, activity type and activity description (session log).

To view the audit log:

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- 1. Click the Portal menu icon in the top right corner of the main menu bar and select Organisation.
- 2. Using the menu to the left, select *Security*.

≡>	Security	Auditing			
20	کے Auditing	Q Search.			
E.	🛈 SAML 🔐	Session time	User	Activity type	Session log
۲		01/11/2024 16:19:25	Harry	Scheduler	Scheduler adc Created
쩐		01/11/2024 16:18:44	Harry	Scheduler	Scheduler adc Created
		01/11/2024 16:18:01	Harry	\land Backup	Backup ADC1 Created
P		01/11/2024 16:17:51	Harry	\land Backup	Backup ADC1 Created
ø		01/11/2024 13:45:05	Harry	Scheduler	Scheduler adc Created

- 3. In the Security menu select Auditing to display the audit log.
- 4. To order by a particular column, click the column heading. The sort order (ascending or descending) is indicated by the arrow. Click the column heading again to change the sort order.

5.2.2.2. Security Assertion Markup Language (SAML)

SAML enables Portal login using a SAML identity provider's single sign-on functionality.

To enable SAML login for the organisation:

- 1. Click the Portal menu icon in the top right corner of the main menu bar and select Organisation.
- 2. Using the menu to the left, select Security.
- 3. In the *Security* menu select *SAML*.

≡>	Security	SAML
20	Auditing	What is SAML?
 •	⊙ SAML	SAME allows login through your SAME identity provider single sign-on functionality.
\oplus		Entity ID/ Audience URL
坯		https://portal.loadbalancer.org
		Issuer ID https://portal.loadbalancer.org
P		Single Sign-On URL https://portal.loadbalancer.org/api/v1/accounts/auth/saml/callbact
Ø		Name ID Format EmailAddress
		If your SAML identity provider supports automatic configuration, you can download the config in XML below.
*		Next

- 4. Copy the data required using the links provided and paste this into the relevant fields in your chosen SAML provider's configuration screen.
- 5. Click Next.
- 6. Copy the Metadata URL from your SAML provider and paste this into the field provided in the ADC Portal.
- 7. Click Submit.

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8 Note
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If you need any assistance configuring SAML, please contact our support team.

5.2.3. Namespaces & Tags

Namespaces allow ADCs to be organised into user-defined groups to simplify management. Each ADC can reside in one Namespace at a time, ensuring a clean and efficient structure. In addition, up to 30 user-defined tags can be added to each ADC to help organize your infrastructure more effectively. Namespaces can be added as detailed below, Tags are specified and created when ADCs are added to the Portal.

For example, Namespaces could be used to indicate where ADCs are located and Tags could be used to indicate which support team is responsible for the ADC. All ADCs in a particular location could then be viewed by selecting the relevant Namespace using the Namespaces dropdown and all ADCs supported by a particular team could be found by specifying the relevant Tag in the ADC search box.

Namespaces and Tags are allocated when ADCs are added to the Portal. They can also be modified later if required by editing the ADC - for more information, see ADC Actions Menu.

To add a new namespace:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the Namespaces panel, click View my Namespaces.
- 3. Click the Add namespace button.
- 4. The Add Namespace form will be displayed:

∃< 🐏 Organ	nisation	Add namespace		
ුසු User Manager	ment	Name*	í	
E Security		L		
Hamespaces				
쌉 Subscriptions				
Billing	Coming Soon			
₽ Licensing	Coming Soon			
ලි Settings				
		Cancel		

5. Specify a *Name* for the new namespace and click Add.

To delete a namespace:

- 1. Click the three dots menu next to the namespace to be deleted.
- 2. Click Delete, then click Confirm to delete the namespace.

5.2.4. Subscriptions

To view the organisation's current ADC Portal subscription:

1. Click the *Subscriptions* menu icon in the top right side of the main menu bar.

All features that are included are listed under each subscription level.

If you want to change your subscription, click the relevant **Contact Sales** button to open a chat window and discuss your requirements. Alternatively, email sales@loadbalancer.org.

5.2.5. Billing

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This functionality is coming soon.

5.2.6. Licensing

This functionality is coming soon.

5.2.7. Settings

To update the organisation's name or telephone number:

- 1. Click the *Portal* menu icon in the top right corner of the main menu bar and select *Organisation*.
- 2. Using the menu to the left, select Settings.

≡< ∰∎ Organisation	Organisation Settings
පී User Management	Organisation Name*
R Security	Contact Number*
Namespaces	+44 ~ 1234567891 Format: 1234567890
싼 Subscriptions	Organisation ID
Billing Coming Soon	110
Licensing Coming Soon	
♂ Settings	
	Update Settings

- 3. Update the Organisation Name and Contact Number as required.
- 4. Click Update Settings.

6. Shuttle Management

As mentioned in Technology, a Shuttle is required to enable ADCs to communicate with the ADC Portal.

6.1. Adding a Shuttle

6.1.1. Standalone Shuttle

A standalone Shuttle is a dedicated Linux instance that runs the Shuttle service. The instance requires **wget** and **curl** to be installed to allow the required installation files to be downloaded.

Step 1 - Prepare the Linux instance

1. Deploy a new Linux instance that will be used as the standalone Shuttle.

2. Ensure that wget and curl are installed.

Step 2 - Configure the Shuttle

- 1. Click LOADBALANCER | PORTAL in the Portal's main menu bar to view the dashboard.
- 2. In the *ADCs* panel:
 - If there are currently no ADCs, click **Connect an ADC**.
 - Using the menu to the left, select Shuttle Management.
 - If ADCs have already been added, click View my ADCs.
 - Using the menu to the left, select Shuttle Management.
 - Click the Add Shuttle button.
- 3. Click the Add button for the Standalone Shuttle.

∃< ADCs	15 Standalone Shuttle	,
🖽 Overview	Connection method	
😂 List	Token ~	
Shuttle Management	 Linux environment The Shuttle shell script works under Linux, simply copy the token into your terminal and run it. It will automatically install all the resources required. Requirements Curl token Copy the following token and run it in your shell environment: sudo bash -c "\$(curl -fsSL http://lbshuttle.sh/install.sh)" & lbsidecar -adopt=ZMgqtCeptdEQXsPFw79VIWWW C 	
	Connection	
	Cancel Back Next	Q

- 4. Copy the installation command/token as directed using the copy link provided.
- 5. The Standalone Shuttle form will now display Waiting for adoption...
- 6. Run the copied command/token on the Linux instance via the console or an SSH session.
- 7. When the command completes successfully, the following message will be displayed:

```
> Installation complete
```

Successfully initiated adoption process. Please visit the Portal to complete the adoption process.

Step 3 - Adopt the Shuttle

- 1. In the Shuttle Management form, click the **Adopt** button for the new Shuttle to complete the Shuttle adoption process.
- 2. Once adopted, the Shuttle name and other attributes can be changed if required. For more information, please refer to Shuttle Actions Menu.
 - Note To continue and add an ADC to the Portal, please refer to ADC Management.

6.1.1.1. Network Topology

As mentioned in Connection Options, if the Shuttle does not have network access to all ADCs, a subnet for each remote ADC must be defined. This configures a static route on the Shuttle to enable access to the remote subnet.



To add a new subnet:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the dashboard.
- 2. In the ADCs panel, click View my ADCs.
- 3. Using the menu to the left, select Shuttle Management.
- 4. Click the three dots menu to the right of the relevant standalone shuttle and select Edit Shuttle.
- 5. Ensure that the *Subnets* tab is selected, then click the **Add Subnet** button.

∃< ADCs	Add Subnet	
E Overview	Label* Subnet-192.168.100.0	
😂 List	Subnet*	
😴 Shuttle Management	192.168.100.0/24	
	O Use existing gateway Create new gateway Gateway* 192.168.64.250	
	Cancel Submit	0

- 6. Specify a suitable label (name) for the subnet, e.g. Subnet-192.168.100.0.
- 7. Enter the subnet address, e.g. 192.168.100.0/24.
- 8. To create a new gateway, select Create new Gateway and specify the Gateway IP address.

9. Click Submit.

∃< ADCs	Edit Shuttle			,
E Overview	Q Search			192.168.64.250 ~
😂 List	S	Gateway		
🚀 Shuttle Management		IP address 192.168.64.250		
		192.168.100.0/24 Subnet ID: 2/Subnet-192.168.100.0		
	Overview Subnets Security			
	Q Search			Add subnet
	Label	CIDR	Gateway	
	-	192.168.64.0/18	192.168.64.1	÷
	Subnet-192.168.100.0	192.168.100.0/24	192.168.64.250	÷
	Cancel Submit			0

Once created, a graphical representation of the subnet and associated gateway will be displayed:

Repeat these steps to add additional subnets as required.

To delete a subnet:

- 1. Click the three dots menu next to the subnet to be deleted.
- 2. Click **Delete**, then click **Confirm** to delete the subnet.

6.1.2. Loadbalancer Enterprise

A Loadbalancer.org Enterprise ADC with the Shuttle service enabled can also be used as a Shuttle.

1 Note For more details, please refer to Connection Options.

Step 1 - Prepare the Enterprise Appliance

- 1. If required, deploy a new Loadbalancer.org Enterprise Appliance that will be used as the Shuttle.
- 2. Using the Enterprise appliance's WebUI, navigate to Local Configuration > Portal Management.
- 3. Enable (check) the *Shuttle Enabled* checkbox.



4. Click Update.

- 5. Restart the Gateway and Shuttle services using the buttons in the "Commit changes" box at the top of the screen.
- 6. Using the Enterprise appliance's WebUI, navigate to *Local Configuration > Security*.
- 7. Set the *Appliance Security Mode* to **Custom** and click **Update**. This will enable shell commands via the WebUI.

Step 2 - Configure the Shuttle

- 1. Click LOADBALANCER | PORTAL in the Portal's main menu bar to view the Dashboard.
- 2. In the ADCs panel:
 - If there are currently no ADCs, click **Connect an ADC**.
 - Using the menu to the left, select *Shuttle Management*.
 - If ADCs have already been added, click View my ADCs.
 - Using the menu to the left, select *Shuttle Management*.
 - Click the Add Shuttle button.
- 3. Click the Add button for the Loadbalancer Enterprise.
- 4. Select the required Connection Method.
 - If Credentials is selected:
 - Click Next.
 - The Loadbalancer Enterprise Portal form will now display Waiting for adoption....
 - Using the Enterprise appliance's WebUI, navigate to Local Configuration > Portal Management.

Adopt Appliance		
Adoption Submitted	no	
Portal Email	email@domain.com	0
Portal Password		0
		Begin Adoption

- Enter the Portal Email and Portal Password for the Portal account.
- Click Begin Adoption.
- "Adoption Initiated" will be displayed in the blue information box.
- If Token is selected:

≡≻	时 Loadbalancer Enterprise	^
	Connection method	
8	Token	
À	token Copy the following token and run it in your loadbalancer's shell environment:	
	Ibsidecar adopt=BXGvwpytYJeYA3Pzm5Jckage	
	Connection	
		~
	Cancel Back Next	1

- Copy the installation command/token as directed using the copy link provided.
- The Loadbalancer Enterprise Shuttle form will now display Waiting for adoption....
- Using the Enterprise appliance's WebUI, navigate to *Local Configuration > Execute Shell Command*.
- Paste the installation command/token into the execute shell command field as shown below.

lbsidecar --adopt=BXGvwpytYJeYA3Pzm5Jckage

Execute shell command

- Click Execute shell command.
- Once the command has executed successfully, the following message will be displayed on the appliance WebUI:

Successfully initiated adoption process. Please visit the Portal to complete the adoption process.

Step 3 - Adopt the Shuttle

15

1. Return to the ADC Portal.

≡>	14	Loadbalancer	Enterprise	
=	Ø	Connection method Method: credentials		
8		Edit >		
A.	•	Connection These shuttle(s) have bee NOTE: These might not be	n added in the last few seconds. the shuttles you are looking for!	
		Name	Endeavour Expeditioner IX	
		Address Port	192.168.111.146 25565	
			Adopt	
				~
	R	eturn to shuttles list		0
	8 N	lote	Multiple Shuttles may be	displayed if others have been configured but not yet adopted.

- 2. Click the Adopt button for the Shuttle. The Shuttle will be displayed in the Shuttle Management list.
- 3. Once adopted, the Shuttle name and other attributes can be changed if required. For more information, please refer to Shuttle Actions Menu.

S Note To continue and add an ADC to the Portal, please refer to ADC Management.

6.1.3. Loadbalancer Endurance

The ability to use a Loadbalancer.org Endurance appliance as a Shuttle is coming soon.

6.2. Viewing & Managing Shuttles

To view all shuttles:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the ADCs panel, click View my ADCs.
- 3. Using the menu to the left, select *Shuttle Management*.
- 4. All existing Shuttles will be listed.

To view/manage a particular shuttle:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the ADCs panel, click View my ADCs.
- 3. Using the menu to the left, select *Shuttle Management*.
- 4. Click the Label (name) of the Shuttle to be viewed, a new information panel will be displayed to the right.

∃< ADCs	😴 Shuttle Manager	ment				Add Shuttle	Challeng	er Vag	rant III 🕴	×
E Overview	Q Search									
😂 List	Shuttle Name	Running status	IP address	Associated ADCs	Namespace		Ov	erview	Subnets	
🚀 Shuttle Management	마. Challenger Vagrant III	-	192.168.111.146		All	:	Locked			6
	1 total				D	iownload CSV	Vendor Adoption Sta Address Port Namespace Version Notes No notes add	tus ed	Ad 192.168.11 2	(1) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
							Tags No tags adde	d		0

- The Overview tab provides a summary of the Shuttle.
- The Subnets tab lists the subnets that the Shuttle is associated with.



6.2.1. Shuttle Actions Menu

1. Click the three dots menu for the Shuttle, the actions menu will be displayed.

∃< ADCs	🛱 Shuttle Management				Ad	d Shuttle
Overview	Q Search					
😂 List	Shuttle Name	Running status	IP address	Associated ADCs	Namespace	
🚀 Shuttle Management	다. Challenger Vagrant III		192.168.111.146		Update Shuttle	:
	1 total				Edit Shuttle	<u>iv</u>
					Remove Shuttle	
	I					

- 2. Select the required action:
 - Update Shuttle
 - Update the Shuttle service to the latest version.



Edit Shuttle

- The Edit Shuttle screen will be displayed. Update the settings as required and click Submit to save.
- Remove Shuttle
 - Remove the Shuttle from the Portal. You'll be prompted to confirm that you want to proceed, click **Confirm** to delete the Shuttle.

8 Note This option will be greyed out if any ADCs are using the Shuttle to communicate with the ADC Portal.

7. ADC Management

7.1. Multi Vendor Support

ADCs from multiple vendors can be adopted (added to the ADC Portal). The table below lists which ADCs are currently supported.

Vendor	Software Versions Supported	Notes
Loadbalancer.org	v8.11.4 & later	
F5	v17.0.0.1 & later	Previous versions may be supported but have not been verified
Kemp	v7.2.55.0.21071 & later	Previous versions may be supported but have not been verified
Citrix	v13.1-48.47 & later	Previous versions may be supported but have not been verified

7.2. Adding an ADC to the Portal

(①) Important There must already be an accessible Shuttle available before an ADC can be added. To add a Shuttle, please refer to Shuttle Management.

Step 1 - Prepare the ADC for Adoption

Loadbalancer.org ADC Appliances:

- 1. Using the WebUI, navigate to *Local Configuration > Portal Management*.
- 2. Ensure that the Gateway Enabled checkbox is enabled (checked).
- 3. Click Update.
- 4. Restart the Gateway and Shuttle services using the restart buttons in the "Commit changes" box at the top of the screen.

All other ADC Appliances:

1. Follow the manufacturers instructions to add a user account that has permissions to make API calls.

2. Note the user credentials as these will be needed when adopting the appliance in the ADC Portal.

Step 2 - Adopt the ADC

- 1. Click LOADBALANCER | PORTAL in the Portal's main menu bar to view the Dashboard.
- 2. In the *ADCs* panel:
 - If there are currently no ADCs, click **Connect an ADC**.
 - In the menu to the left, select *List*.
 - if ADCs have already been added, click View my ADCs.
- 3. Click the **Add ADC** button.

∃< ADCs	Add ADC	0 of 30 ADC connections used
E Overview	🚳 Loadbalancer Enterprise	
😂 List	Loadbalancer Enterprise is designed to be clever, not complex, with flexible deployment and payment options. These fully featured ADCs deliver the highest throughput and unparticipated reliability for critical workloads.	Add
🛒 Shuttle Management	Backup 🖓 Update 🛈 Security insights	
	 Loadbalancer Endurance Loadbalancer Endurance is a next-generation load balancer, built for a cloud- native world. Currently in open beta, Endurance will become a fully commercial offering by the end of 2024. F5 BIG-IP F5 is a multi-cloud application services and security company, committed to bringing a better digital world to life. Although they have diversified their product range, their BIG-IP load balancer remains a core part of their offering. Warp A Backup I Security insights 	Add
	Kemp LoadMaster Progress Kemp LoadMaster ADCs are designed to optimize a wide array of applications with templates and support for web Application servers including SSL and HTTP/2, Microsoft applications and lots more.	Add
	Cancel	0

4. Click the Add button for the type of ADC to be added, for example Loadbalancer Enterprise.

≣>	_I th	Loadbalancer Enterprise
	ŀ	Shuttle details Shuttle* Apollo Expeditioner D: 192.168.110.66
2	••••	API configuration details ADC management details Additional information (Optional) Ready to connect
	(ancel Back Next

- 5. Using the *Shuttle* dropdown, select the required shuttle. If there is only one shuttle available, it will be greyed out and selected automatically as shown above.
- 6. Click Next.

Loadbalancer Enterprise Shuttle details Label: Apollo Expeditioner D Network: Edit > API configuration details	
Username* Ioadbalancer Password* Address*	
9000 C	
ADC management details Additional information (Optional) Additional Back Next	Q

- 7. Enter the *Username* and *Password* for a user account that has permissions to make API calls. For an Enterprise appliance, the "loadbalancer" account can be specified.
- 8. Enter the *IP address* of the appliance being added.

- 9. Leave the *Port* set to the default value (9000).
- 10. Click Next.



- 11. Enter an appropriate Label (name) for the appliance.
- 12. Ensure that the *IP Address* is correct.
- 13. Leave the Port set to the default value (9443).
- 14. Select the required Namespace.
- 15. Click Next.
- 16. Enter any required Notes and Tags to describe the appliance and click Next.

NoteTo create a tag, enter the required name and hit <ENTER>. The tag will appear colored blue
under the *Tags* field. Repeat to specify multiple tags (up to 30).

- 17. Verify all settings, these can be changed if needed using the relevant *Edit* option.
- 18. Click Submit if the details have been specified correctly, the adopted appliance will appear in the list.

7.3. Viewing & Managing ADCs

To view all ADCs:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. A summary of the ADCs already added to the Portal will be displayed in the ADCs panel.
- 3. Click View my ADCs to see details of all ADCs.

4. All existing ADCs will be listed.

To view/manage a particular ADC:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the ADCs panel, click View my ADCs.
- 3. Click the Label (name) of the ADC to be managed, a new information panel will be displayed to the right.

≡< ADCs	😂 ADCs						Add ADC	ADC1		: >	ĸ
Overview	Q Search						1 of 30 ADC connections used				
😂 List	Label	Running status	HA status	Address	Port	Version	Namespace	Warp to AD	c •)
🚀 Shuttle Management	ADC1		•	192.168.111.136	9443	v8.12.1	default :				
	1 total						Download CSV	Overview Locked Vendor Product Running status HA status Address Port Version Serial Notes No notes addet Tags	Shuttle	Enterpris Enterpris 192.168.111.134 944: v8.12: n/i	5 5 6 3 1 1 8

- The Overview tab provides a summary of the ADC.
- The *Shuttle* tab details which Shuttle is being used to connect to the Portal.
- The Insights tab details any security issues (CVEs) found.

7.3.1. Connect to an ADC's WebUI

The Portal enables instant, one-click access to any ADC's WebUI - for ADCs located in connected networks direct access can be used, for ADCs located in other networks WARP (not available with the Free Portal subscription level) can be used.

Using WARP

- 1. Click the Label (name) of the ADC to be viewed, a new panel will be displayed to the right.
- 2. Click Warp to ADC to securely connect to the ADC.
- 3. A new browser tab will open and display the WebUI.

Using Direct Access

- 1. Click the Label (name) of the ADC to be viewed, a new panel will be displayed to the right.
- 2. Click the down arrow on the Warp to ADC button and select Direct access.
- 3. A new browser tab will open and display the WebUI.

7.3.2. ADC Actions Menu

1. Click the three dots menu for the ADC, the actions menu will be displayed.

≡ <	ADCs	😂 ADCs							A	dd ADC
	Overview	Q Search							1 of 30 ADC connect	tions used
8	List	Label	Running status	HA status	Address	Port	Version	Namespa	ice	
Ŵ	Shuttle Management	마 ADC1		•	192.168.111.148	9443	v8.11.4	default	Update now	
		1 total							Backup now	v
									View backups	
									Add schedule	
									View schedules	
									View security risks	
									Edit ADC	
									Remove ADC	
										•
										U

- 2. Select the required action:
 - Backup now
 - A backup of the ADC will be created.
 - View backups
 - All backups for this ADC will be listed.
 - To order by a particular column, click the column heading. The sort order (ascending or descending) is indicated by the arrow. Click the column heading again to change the sort order.
 - To download a backup:
 - Click the three dots menu to the right and click **Download**.
 - Enter your password and click Submit.
 - To delete a backup:
 - Click the three dots menu to the right and click **Delete**, then click **Confirm** to proceed.
 - Add schedule
 - The Create Schedule screen will be displayed.
 - The Product Name is set to the name of the ADC and Schedule Type is set to Backup.
 - Specify the required Date, Time and Occurrence and click Save Schedule.
 - View schedules
 - The Schedules screen will be displayed. Any schedules created for the ADC will be listed.
 - View security risks

- The Security Insights screen will be displayed. Any CVEs for the ADC will be listed.
- Edit ADC
 - The Edit ADC Details screen will be displayed. Update the settings as required and click Submit to save.
- Remove ADC
 - Remove the ADC from the Portal. You'll be prompted to confirm that you want to proceed, click Confirm to remove the ADC.

8. Task Scheduler

The task scheduler allows multiple tasks to be configured and scheduled. Currently, ADC backups can be scheduled. Other tasks including software updates are coming soon. Backups are securely stored in the Portal and can be easily viewed and either restored, downloaded or deleted.

To add a new schedule:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the *Scheduler* panel:
 - If this is the first schedule to be added, click Create a schedule.
 - If schedules already exist, click View my Schedules.
 - Click the Add Schedule button.
- 3. The Create Schedule form will be displayed:

∃< Scheduler	Create schedule	
E Overview	Product Type	
泛 Schedules	Schedule Type	
Pipelines Coming Soon	Backup Image: Constraint of the second sec	
	Cancel Next	Ç

- 4. Specify the required Date, Time and Occurrence.
- 5. Click Next.

∃< Scheduler	Create schedule		
Overview	O Search		
🔂 Schedules			
➡ Pipelines Coming Soon	✓ Name	IP address Port	Backups used
	ADC1	192.168.111.148 9443	3 of 0
	Selected: 1/1 total		Download CSV
	Cancel Back Save Schedule		0

- 6. Using the checkboxes, specify which ADC(s) the schedule should apply to.
- 7. Click Save Schedule, the new schedule will appear in the Schedules list.

≡< Scheduler	🗟 Sche	edules					Add Sched	lule
E Overview	Q Searc	h						
Schedules	Product Type	Product Name	Running status	Scheduled Type	Scheduled Date/ Time	Occurrence	Status	
Pipelines Coming 5	oon ADC	ADC1		backup	01/11/2024 21:00:00	Daily	Pending	:
	1 total						Download	d CSV
							•	0

To delete a schedule:

- 1. Click the three dots menu next to the schedule to be deleted.
- 2. Click Delete Schedule, then click Confirm to delete the schedule.

9. Storage

Backups can be easily viewed and either restored, downloaded for storage elsewhere, or deleted. All backups are encrypted and securely stored in the Loadbalancer.org ADC Portal.

To access storage:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the *Storage* panel:

- If there are currently no backups, click Create a backup.
 - The Create Schedule form will be displayed. For more details, see Task Scheduler.
- If backups already exist, click View my Backups.
- 3. Existing backups will be listed:

∃< Storage	Backups					
Overview	Product Type					
A Backups	Q adc	×				
	Product Name	Product Type	Date & time	File size	Backups used	
	ADC1	ADC	01/11/2024 13:32:15	35961 bytes	4	
	1 total				Download CSV	
					Q)

- 4. In this example, 4 backups have been created for ADC1.
- 5. To view all backups, click on the *Product name*, is this case ADC1.
- 6. Details of all backups will be displayed.

≡< Storage	Backup for ADC1		
🖽 Overview	Q Search		3 of 0 backups used
A Backups	Date & time	File size	
	31/10/2024 14:33:11	35957 bytes	:
	31/10/2024 14:40:46	35970 bytes	:
	31/10/2024 14:43:22	35969 bytes	:
	01/11/2024 13:32:15	35961 bytes	÷
	4 total		Download CSV

To download a backup:

- 1. Click the three dots menu next to the backup to be downloaded.
- 2. Select Download.
- 3. Enter your password in order to decrypt and download the backup and click Submit.
- 4. Note the Backup Archive Password (ADC appliance ID) that is displayed on screen. This is required as a

password for the encrypted file.

To delete a backup:

- 1. Click the three dots menu next to the backup to be deleted.
- 2. Click Delete, then click Confirm to delete the backup.

10. Security

10.1. Security Insights

The ADC Portal provides continuous, real-time CVE (Common Vulnerabilities and Exposure) monitoring of all ADCs and ensures that any issues found are highlighted so that swift action can be taken.

To view security insights for all ADCs:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. The number of risks detected is displayed in the Security Panel.
- 3. Click View my Security insights to view details of any risks found.

Details of all CVEs complete with a recommendation of what action should be taken will be displayed as shown in the example below:

≡< Security	Insights					
E Overview	Q Search					
B Dashboard	Vendor	Operational Risk				
@ Insights	All	High V				
	ADC Name	Security Risk	Operational Risk	Our Recommendation		
	Mail_Server_Box_12	0 246 12 2	High	Update	More Details	:
	M UAT/QAT	0 0 44 1	High	Update	Update ADC	:
	Web, ADFS, SQL 3	0 1 1 4	High	Finding a fix		:
	Web, ADFS, SQL 4	0 0 44 1	High	Visit vendor website		
	Web, ADFS, SQL 5	0 0 1 1	High	Visit vendor website		
	C RDS SF 1	0 5 1 1	High	Visit vendor website		8
	6 Total					
						0

To view security insights for a particular ADC:

լեր

1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.

- 2. In the ADCs panel, click View my ADCs.
- 3. Click the three dots menu next to the ADC to be viewed and select View security risks.

10.2. SSL Certificates

All SSL/TLS certificates installed in each ADC can be viewed from the Portal (not available with the Free Portal subscription level). This enables proactive monitoring to help ensure that expiring certificates are renewed or replaced before they expire.

To view all certificates for a particular ADC:

- 1. Click LOADBALANCER | PORTAL in the main menu bar to view the Dashboard.
- 2. In the Security panel, click View my Security insights.
- 3. In the menu to the left, select *Certificates*.
- 4. Select the ADC you'd like to view.

A summary of all installed certificates is displayed at the top and full details of each is displayed below as shown in the example below:

≡≺	Security		Certificate details	í					
	Overview		1	0	0				
	Dashboard	Coming Soon	Total Certificates	Expiring (30 days)	Expired Certificates				
٩	Insights		Q Search						
I@	Certificates		Common Name	Issuer			Expiry		
			localhost.localdomain	CN=localhost	localdomain,0=Loadbal	ancer.org,ST=Delaware,C=US	30/08/2026 13:44:50	Q	:
			1 total					Downlo	oad CSV
									0

11. Governance & Compliance

Loadbalancer.org is an ISO 13485:2016, ISO 9001:2015, and ISO 27001:2022 certified company, adhering to the principles of security, availability, processing integrity, confidentiality, and privacy.

We hold our Quality Management System (QMS) in high regard and carry out regular security audits and penetration tests internally and with independent third parties.

12. Loadbalancer.org Technical Support

12.1. Accessing Technical Support

If you need assistance or have any questions, please don't hesitate to contact us.

12.1.1. Using Online Chat from the Portal

Click the Intercom icon in the bottom right-hand corner to use the online chat function to communicate with our support team.

12.1.2. Create a Support Ticket from the Portal

To create a support ticket:

- 1. Click the Support menu icon in the top right corner of the main menu bar and select Get Support.
- 2. Click the **Create Ticket** button.
- 3. Select the *Ticket Type* and *Product*.
- 4. Specify the Subject and enter your question in the box provided.
- 5. Click **Submit** to create the ticket.
- 6. Using the menu to the left, select *All Tickets* to view, update or close the ticket.

12.1.3. Email Us

To raise a support ticket via email, send a message to the support team : support@loadbalancer.org.

12.2. Service Status

To view the current status of all portal services:

1. Click the *Support* menu icon in the top right corner of the main menu bar and select *Service Status*.

12.3. Send Feedback

We always welcome your feedback and suggestions.

To provide feedback:

- 1. Click the *Support* menu icon in the top right corner of the main menu bar and select *Send Feedback*.
- 2. Click Next.
- 3. Provide your comments and click **Submit**.

12.4. Documentation

To access this documentation:

1. Click the *Support* menu icon in the top right corner of the main menu bar and select *Documentation*.

IL LOADBALANCER

Visit us: www.loadbalancer.org Phone us: +44 (0)330 380 1064 Phone us: +1 833 274 2566 Email us: info@loadbalancer.org Follow us: @loadbalancer.org

About Loadbalancer.org

Loadbalancer.org's mission is to ensure that its clients' businesses are never interrupted. The load balancer experts ask the right questions to get to the heart of what matters, bringing a depth of understanding to each deployment. Experience enables Loadbalancer.org engineers to design less complex, unbreakable solutions and to provide exceptional personalized support.

