

WebYaST

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WebYaST User Guide



WebYaST User Guide

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Introduction

WebYaST is a Web-based remote console for controlling appliances based on SUSE® Linux Enterprise. WebYaST provides a standardized and user-friendly interface to configure the appliance “black box” environment. Whereas automation - wherever applicable - is the default procedure in the appliance environment, WebYaST is needed to perform some maintenance tasks that cannot be automated.

The set of available WebYaST modules is a subset of the YaST functionality available on SUSE® Linux Enterprise Server or SUSE® Linux Enterprise Desktop. Some WebYaST modules do not use the same code as the respective YaST modules and their functionality may differ. Besides, WebYaST can provide modules which are not available in YaST on SUSE Linux Enterprise Server or SUSE Linux Enterprise Desktop, for example the WebYaST Status module.

This guide is intended for users who want to access, configure, and monitor their appliances with WebYaST. For information about preparing an appliance equipped with WebYaST and configuring WebYaST capabilities, see the *WebYaST Vendor Guide*.

1.1 Supported Browsers

WebYaST supports the following Web browser clients:

- Mozilla Firefox, version 3.6.x
- Microsoft Internet Explorer, version 8.x

NOTE: Unsupported Browsers

Unsupported browsers are not blocked. If an unsupported browser is used, the user is warned by a message in his browser. It is recommended to update the browser in that case. The message is shown on all WebYaST pages, unless the user acknowledges and disables the message.

1.2 Additional Documentation and Resources

Many chapters in this manual contain links to additional documentation resources. These include documentation that is available on the system as well as documentation available on the Internet.

For an overview of the documentation available for your product and the latest documentation updates, refer to <http://www.novell.com/documentation>.

1.3 Reporting Bugs and Feedback

Please ask your appliance vendor how to report bugs and give feedback.

1.4 Documentation Conventions

The following typographical conventions are used in this manual:

- `/etc/passwd`: directory names and filenames
- *placeholder*: replace *placeholder* with the actual value
- `PATH`: the environment variable `PATH`
- `ls, --help`: commands, options, and parameters
- `user`: users or groups

- **Alt, Alt + F1**: a key to press or a key combination; keys are shown in uppercase as on a keyboard
- *File, File > Save As*: menu items, buttons
- *Dancing Penguins* (Chapter *Penguins*, ↑Another Manual): This is a reference to a chapter in another manual.

Initial System Setup

The first time you log into an appliance via WebYaST, you need to configure basic settings in a sequence of configuration dialogs to complete the initial system setup. You can always return to the previous screen by clicking the *Back* button.

NOTE: Initial System Setup on SLE11

SLE11 systems are typically configured before WebYaST is used. Initial system setup using WebYaST is not performed on those systems.

NOTE: Custom Setup Sequence

The initial setup sequence can be customized by the vendor. The following workflow is just an example, it can differ from the system setup sequence in your appliance.

Procedure 2.1 *Logging In and Completing the Initial Setup*

- 1 Open a browser that is supported by WebYaST and enter the appliance's URL including the port number.
- 2 In the *Username* and *Password* fields, enter your login credentials for the host and click *Login*.
- 3 If the initial system setup was not completed yet, the *Set up the system* button is displayed. Click it to perform the initial setup.

- 4 Choose the *WebYaST Language* and click *Next*.
- 5 Read the end user license agreement (EULA). The English text is shown by default. You can choose from the available translations by changing the current language used by the WebYaST interface.

If you agree to the terms, choose *Yes, I agree to the license agreement*. You may be asked to read and accept more than one EULA. If you do not agree to the license terms, you will not be allowed to continue through the basesystem setup workflow.

- 6 Click *Next* to access the *Administrator Settings*.

To set the system administrator's password, enter a password into *Password* and repeat it in *Confirm Password*. Click *Save*.

To configure an e-mail address to forward the administrator's mail to, enter it into *Forward mail to* and click *Save*.

- 7 Click *Next* to access the system's *Network* settings.

For automatic configuration using DHCP, select the *Automatic* option from the *Configuration mode* drop-down menu. For information about manual configuration, see Section 4.7, “Configuring Network Settings” (page 17).

WARNING: Changing IP Address or Hostname

The change in network configuration is done immediately after clicking the *Next* button. If the hostname or IP address is changed, it may be necessary to change the URL in the browser before you can continue.

- 8 Click *Next* to access the system's *Time* preferences.

Choose the general *Region* and the specific *Timezone*. The lower part of the screen displays the time and date currently set on the system.

To set time and date manually, select *Manually configure time* and edit the *Time* and *Date* entries.

To synchronize system time with a network time server, select *Synchronize via Network Time Protocol (NTP)*.

- 9 Click *Next* to access the system's *Mail Settings*.

In *Outgoing mail server*, enter the URL of the SMTP server to be used.

In *Transport Layer Security*, choose whether encryption (TLS) should be used.

Enter your credentials for the SMTP server: *User name* and *Password*. Confirm the password by entering it twice.

- 10 Click *Next* to access the system's *Registration*.

You are asked for the information the registration server needs. Enter your *Email* address, *System Name* (a human-readable string describing the system), and your *SLES Registration Code*.

To display all information that is sent to the registration server, click *Details*.

- 11 Click *Next* to finish the initial setup.

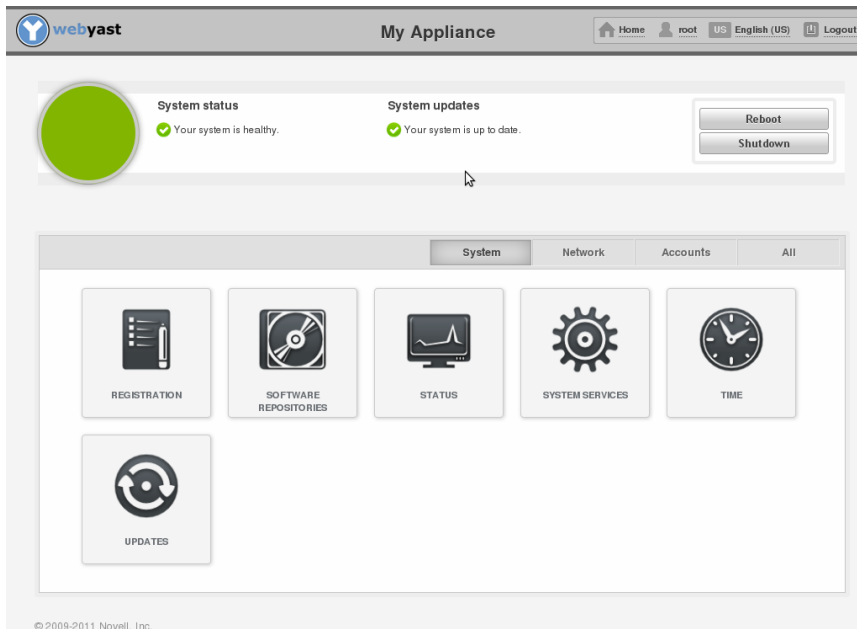
NOTE: Resuming Interrupted Initial Setup

The intermediate settings are stored during the initial setup sequence. If the initial setup is interrupted and resumed later, all previously made settings are remembered.

WebYaST Control Panel

After performing the initial setup as described in Chapter 2, *Initial System Setup* (page 5), the WebYaST control panel is shown when you log into an appliance with WebYaST. The control panel contains the following parts:

Figure 3.1 *WebYaST Control Panel*



3.1 The Header

The header in the top part of the WebYaST control panel screen shows the name of your appliance, hostname, your username, and the selected WebYaST interface language. You can find the *Logout* link in the upper right corner for secure logout.

NOTE: Changing the Interface Language

The language of the WebYaST interface (locale) is automatically selected according to the browser settings. It can be also changed manually by clicking the language name in the header and selecting a new language in the list.

3.2 The System Status Area

The overall status of the system is indicated by the big circle in the left. This circle integrates the status information from the two main sections to the right (the circle is green if both sections are green):

System status

The left indicator shows the health of the system. If it is green, the system is healthy. The health information is determined by data from the *Status* module and the user-defined limits set there. For more information about the *Status* module, see Section 4.4, “Monitoring System Status” (page 15).

System Updates

The right indicator shows the status of system updates. If it is green, the system is up to date and no action is necessary. If updates are available for installation, the indicator turns red.

To install available updates, click the link showing information about the updates to start the WebYaST *Updates* module. With this module, you can see the list of available updates and choose which updates to install. For more information about the *Updates* module, see Section 4.3, “Managing System Updates” (page 15).

Both fields are periodically updated. The default update interval is 5 minutes.

NOTE: Changing Status Update Intervals

For changing the default status update intervals, see the vendor documentation.

3.3 Rebooting and Shutting Down

You can find buttons for rebooting and shutting down the appliance just right of the system status area of the main screen.

To reboot or shut down the appliance, click *Reboot* or *Shutdown* and confirm the action with *OK*. You will be logged out from the system.

3.4 The Configuration Area

In the bottom part of the control panel, icons of WebYaST modules are shown. Click these icons to start individual modules. For more information about individual modules, see Chapter 4, *WebYaST Configuration Modules* (page 13).

When you log in, only frequently used WebYaST modules are shown. To show all available WebYaST modules, click *All*. You can also show only modules related to system, network or user accounts by clicking the appropriate buttons.

WebYaST Configuration Modules

This chapter describes all WebYaST configuration modules and their usage. The modules can be accessed from the configuration area of the WebYaST interface, see Section 3.4, “The Configuration Area” (page 11).

NOTE: Online Module Description

The question mark icon in the header of every module provides relevant online documentation.

NOTE: Concurrent Use of Configuration Modules

If a configuration module is used by two or more users at the same time, and one of the users changes and saves the configuration, a warning message is shown to other users and their configuration is updated.

4.1 Configuring Firewall

The *Firewall* WebYaST module allows you to configure firewall. The firewall can be turned on and off. Individual services can be blocked or allowed. To configure the firewall, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Firewall* module.
- 2 Enable or disable the firewall using the *Enabled* or *Disabled* buttons in the header. The green highlighted button indicates the current status of the firewall.

- 3 The *Allowed services* and *Blocked services* groups show allowed and blocked services. Click any service to move it from one group to another.

If you want to read description of any service, stop the mouse pointer over it and wait for two seconds.

- 4 Click *Save* to apply changes.

NOTE: Blocking Required WebYaST Services

If a required service (webyast and webyast-ui) is about to be blocked, a warning message is shown when saving the configuration. This is done to prevent the user from blocking the access to WebYaST itself.

4.2 Configuring Time Settings

The *Time* WebYaST module allows you to configure time and date on the target system. To configure time and date, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Time* module.
- 2 Choose the general *Region* and the specific *Timezone* from the drop-down lists.
- 3 If the system's hardware clock is set to UTC (Universal Time Coordinates), activate the *Hardware clock is set to UTC* option. If the hardware clock is set to the local time, the option should be inactive.
- 4 To set the current time manually, select *Manually configure time* and edit the *Date* and *Time* entries.

To synchronize system time with a network time server, select *Synchronize via Network Time Protocol (NTP)* and enter hostname or IP address of an *NTP server*.

- 5 Click *Save*.

NOTE: Logout After Changing System Time

The login time is limited to 2 hours. Therefore, if you change the system time by a large value, your session will automatically expire.

4.3 Managing System Updates

The *Updates* WebYaST module displays a list of available system updates. Use the list to select the updates you want to install.

To update the system, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Updates* module.
- 2 If the system is up to date, click *Back*.
- 3 Use the checkboxes to select the updates that you want to install.
- 4 Click *Update*.

Alternatively, you can update your appliance from the command line with `ssh` and the `zypper dup` command.

4.4 Monitoring System Status

The *Status* WebYaST module displays status information collected by the `collectedd` daemon, for example: *Network*, *Memory* and *Disk* usage, and *CPU* load. For each type of information, status icon and name is displayed. Click the name to display detailed status information. The specific data shown may be different in your appliance.

For these numeric data, it is possible to set limits. For more information about limits, see Section 4.4.1, “Setting Status Limits” (page 16). If the actual value exceeds this limits, the system is considered unhealthy and the status icon and the health indicator in the control panel turns red, see Section 3.2, “The System Status Area” (page 10).

The *System Messages* section shows system logs from the `/var/log/messages` file. Click *System Messages* to show the messages. Use the green arrows to navigate through the messages.

4.4.1 Setting Status Limits

To set the limit values for status data, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Status* module.
- 2 Click *Edit limits* at the bottom of the screen.
- 3 Click the type of data you want to edit to expand it.
- 4 From the drop-down menus, select the type of limit you want to set and enter the appropriate numeric value to the corresponding field.
- 5 Click *Save* and *Back*.

4.5 Managing System Services

The *System Services* WebYaST module allows you to manage system services available on the target system. To manage the system services, follow these steps:

NOTE: Configuring the List of System Services

The list of services available in the *System Services* module is configurable. For more information, see the vendor documentation.

- 1 Log into the WebYaST interface of the target system and start the *System Services* module.
- 2 A list of available system services is shown. Using the *Filter Services* drop-down menu, you can limit the list to show only the running, not running, dead, started on boot, or not started on boot services. Using the *Quick Search*, you can search services according to their names and descriptions.

- 3 For each service, a status icon, name and a short description are shown. You can expand the information shown by clicking the little triangle on the left. A longer description, detailed status information and *Start/Stop*, *Restart*, and *Start on Boot/Do Not Start on Boot* buttons are shown in the expanded view.

To change both the current status and the on-boot status (enable or disable for the current runlevel) press *Start* or *Stop* button.

To restart a service without changing its on-boot status, press *Restart*.

To change only the on-boot status (enable or disable for the current runlevel) press *Start on Boot* or *Do Not Start on Boot* button.

The result of the requested status change is shown under the status buttons.

- 4 If you are finished, click *Back*.

4.6 System Registration

The *Registration* WebYaST module displays the registration status of your system and allows you to register it. To register the system:

- 1 Log into the WebYaST interface of the target system and start the *Registration* module.
- 2 You are asked for the *Mandatory information* the registration server needs. The needed information depends on the installed products. You will be asked repeatedly for any missing but needed information until it is supplied.
- 3 More detailed information is shown under *Details*. Not all information sent to the registration server is shown here, usually only architecture, CPU type and timezone.
- 4 Click *Save*.

4.7 Configuring Network Settings

The *Network* WebYaST module allows you to configure the network on the target system. To configure the network, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Network* module.
- 2 In the header, select the configuration mode. You can choose between *Automatic* (if you want to configure the network automatically via DHCP) or *Manual* configuration. The selected mode is highlighted in green.
- 3 To configure the network automatically via DHCP, select the *Automatic* configuration mode. Enter *Hostname*, *Domain*, and deactivate the *Change Hostname by DHCP* option to ensure a static host name with DHCP.
- 4 To configure the network manually, select *Manual* configuration mode. Under *DNS configuration*, enter the *Hostname*, *Domain*, and specify *Name servers* and *Search domains* to use.

Under *IP configuration*, enter *IP address* and *Subnet mask/Prefixlen*. The prefix should be specified in the CIDR /*nn* format, where *nn* is a number between 0 and 32. Specify the *Default route*.

- 5 Click *Save*.

WARNING: Changing IP Address or Hostname

The change in network configuration is done immediately after clicking the *Next* button. If the hostname or IP address is changed, it may be necessary to change the URL in the browser before you can continue.

4.8 Enabling LDAP Authentication

The *LDAP* WebYaST module allows you to enable authentication via LDAP. Once configured, LDAP users are available in roles management and LDAP users are able to log in WebYaST. To enable LDAP authentication, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *LDAP* module.
- 2 Check the *Enable LDAP Authentication* option.
- 3 Set the *LDAP Server Address* and *Base DN* as provided by your administrator. It is possible to acquire the Base DN from the server with the *Fetch DN* button.

- 4 Check *Secure Connection* if a secure connection should be used.
- 5 Click *Save*
- 6 If you are using LDAP together with Kerberos, use the *Kerberos* WebYaST module to configure Kerberos. For more information, see Section 4.9, “Enabling Kerberos Authentication” (page 19).

4.9 Enabling Kerberos Authentication

The *Kerberos* WebYaST module allows you to enable authentication via Kerberos client. To enable Kerberos authentication, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Kerberos* module.
- 2 Check the *Enable Kerberos Authentication* option.
- 3 Set the *Default Domain*, *Default Realm*, and *KDC Server Address* as provided by your administrator.
- 4 Click *Save*.

4.10 Enabling Active Directory Authentication

The *Active Directory* WebYaST module allows you to enable authentication of Active Directory users. Once configured, Active Directory users are available in roles management and Active Directory users are able to log into WebYaST. To enable Active Directory authentication, follow these steps:

- 1 Before setting Active Directory authentication, ensure that the system time is correct, preferably by NTP synchronization. Ensure that the hostname does not change - either configure DHCP to not change host names for a given IP address or set a fixed host name in the network settings.

- 2 Log into the WebYaST interface of the target system and start the *Active Directory* module.
- 3 Check the *Enable Authentication of AD users* option.
- 4 Enter *Active Directory Domain* to be used. If the machine is not a member of the given domain, you will be asked for *Administrator User Name*, *Password* and *Machine Account*.
- 5 Click *Save*.

4.11 Managing Software Repositories

The *Software Repositories* WebYaST module allows you to manage software repositories. You can view the list of software repositories, edit them, or add new repositories.

To view the list of software repositories, edit or delete them, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Software Repositories* module.
- 2 The list of available software repositories is shown. For each repository, its status icon, name and URL are shown. Using the *Filter repositories* drop-down menu, you can limit the list to enabled, disabled, or all repositories. You can also limit the repositories shown in the list by entering a string in *Quick Search*.
- 3 Click any repository in the list to view detailed information.

Detailed view contains *Alias*, *Name*, and *URL* of the repository. The latter two fields are editable. The status of the repository and of its autorefresh are shown. Both can be enabled or disabled. You can also enable or disable keeping of downloaded packages.

- 4 To save the changes, click *Save*. To delete the selected repository, click *Delete*.

To add a new repository, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Software Repositories* module.

- 2 Click *New Repository*.
- 3 Enter *Alias*, *Name*, and *URL* of the repository to be added. Select whether the repository should be enabled, whether its autorefresh should be enabled and whether downloaded packages should be kept.
- 4 To save the changes, click *Save*.

4.12 Managing Users

The *Users* WebYaST module allows you to manage local non-system users. You can view the list of users, edit them, or add new users.

To view the list of users, edit or delete users, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Users* module.
- 2 The list of local non-system users is shown. For each user, its user name and full name is shown. You can limit the users shown in the list by entering a string in *Filter*.
- 3 Click any user in the list to view detailed information.

In the *Login Settings* tab, you can view and edit user's *Full Name* and *Login Name*. You can also edit the user's *Password*. The new password must be confirmed in *Confirm Password*.

In the *Groups* tab, you can view and edit *Groups* and the *Default Group* the selected user belongs to. You can edit groups manually or select them using the *Manage Groups* and *Select Default Group* buttons.

In the *Advanced* tab, you can view and edit user's *Home Directory*, *Login Shell*, and *UID Number*.

In the *Roles* tab, you can manage user's roles. Click the *Manage Roles* button and click individual roles to move them between *Selected Roles* (active) and *Available Roles* (inactive).

- 4 To save the changes, click *Save*. To delete the selected user, click *Delete*.

To create a new user, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Users* module.
- 2 Click *New User*.
- 3 In the *Login Settings* enter user's *Full Name*, *Login Name* and *Password*. The password strength is indicated by the color bar. The password must be confirmed in *Confirm Password*.

In the *Groups* tab, you can add *Groups* and the *Default Group* the new user belongs to. You can add groups manually or select them using the *Manage Groups* and *Select Default Group* buttons. If not edited, the default group `users` is used.

In the *Advanced* tab, you can edit user's *Home Directory*, *Login Shell*, and *UID Number*. If not edited, default values are used.

In the *Roles* tab, you can manage user's roles. Click the *Manage Roles* button and click individual roles to move them between *Selected Roles* (active) and *Available Roles* (inactive).

- 4 To save the changes, click *Save*.

Using the *Manage Groups* link, you can access the *Groups* WebYaST module directly.

4.13 Managing Groups

The *Groups* WebYaST module allows you to manage local user groups (both system and non-system). You can view the list of groups, edit them, or add new groups.

To view the list of groups, edit or delete groups, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Groups* module.
- 2 The list of local user groups is shown. You can limit the groups shown in the list by entering a string in *Filter*.
- 3 Click any group in the list to view detailed information. You can view and edit *Group Name*, *Group ID*, and comma-separated list of *Members*.

To edit the list of members, you can use the *Manage Members* button. It shows a dialog with two lists of users, *Selected Members* and *Available Members*. Click any member to move it from one list to another. Save the changes with *OK*.

- 4 To save the changes, click *Save*. To delete the selected group, click *Delete*.

To create a new user group, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Groups* module.
- 2 Click *New Group*.
- 3 Enter *Group Name* and comma-separated list of *Members*.

To edit the list of members, you can use the *Manage Members* button. It shows a dialog with two lists of users, *Selected Members* and *Available Members*. Click any member to move it from one list to another. Save the changes with *OK*.

- 4 To save the changes, click *Save*.

Using the *Manage Users* link, you can access the *Users* WebYaST module directly.

4.14 Configuring Mail Settings

The *Mail Settings* WebYaST module allows you to configure a server for outgoing mail (SMTP). To configure the SMTP server, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Mail Settings* module.
- 2 In *Outgoing mail server*, enter the URL of the SMTP server to be used.
- 3 In *Use secure connection (TLS)*, choose whether encryption (TLS) should be used. The available options are: *Disabled*, *If available*, and *Always*.
- 4 Enter your credentials for the SMTP server: *User name* and *Password*. Confirm the password by entering it in *Confirm password*.

- 5 You can test the mail settings by entering an e-mail address in *Send test mail to* and pressing *Send Mail*. The test mail will be also sent when clicking *Save*.
- 6 Click *Save*

4.15 Configuring Roles

The *Roles* WebYaST module allows you to view and configure user roles. To create and configure roles and to assign users to roles, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Roles* module.
- 2 On the *Assign Permissions* tab, a table showing all available permissions and roles is shown. Permissions are in rows, roles in columns. You can click permissions to collapse or expand detailed permissions. You can collapse all permissions with *Collapse all*.
- 3 To create a new role, click *Create Role*, enter its desired *Name* and click the *Create Role* button.
- 4 Assign individual permissions to roles by checking them in the *Assign Permissions* table.
- 5 On the *Assign Users* tab, you can assign users to specific roles. The role containers are in the left. The alphabetically sorted list of users is on the right. To assign a user to a specific role, drag the user name to be assigned from the right to a role container on the left. Users can have more than one role, in such a case, a user is granted union of all permissions granted by his roles.

To remove user from a role, move the cursor over the user name in a role container and click the little cross.

You can search for specific users in the list using the search bar in the header.

- 6 Click *Save* to save the changes.

NOTE: Changing User Rights

After user rights are changed in the role management you should logout and login again to ensure that all changes take effect.

4.16 Configuring Administrator Settings

The *Administrator Settings* WebYaST module allows you to set password for the system administrator (root) and the e-mail address. To configure administrator settings, follow these steps:

- 1 Log into the WebYaST interface of the target system and start the *Administrator Settings* module.
- 2 To change the administrator password enter it in *New Password* and repeat it in *Confirm Password*. Click *Save*.
- 3 To configure an e-mail address to forward administrator's mail to, enter it into *Forward system mail to* and click *Save*.
- 4 To change only the administrator's mail, click *Save Mail Only*. To change both the administrator's password and the mail or the password only, press *Save*.



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