

FL8663001

Revision 02 (2025-03-13)

APP-ISAGRAF

RELEASE NOTES

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Revision history			
No	Date (yyyy-mm-dd)	Author	Comments
00	2023-09-29	Resologi	App-isagraf 2.4.0 release (reference version for Dainsy 4.0.3)
01	2024-02-28	Resologi	App-isagraf 2.4.1 release (reference version for Dainsy 4.0.4)
02	2025-03-13	Resologi	App-isagraf 2.4.3 release (reference version for Dainsy 4.1.0)

Documentary references	
No	Description
FL8658001	DAINSY Linux release notes

Terms and acronyms	
No	Description

Acronyms and icons



Warning



Necessary preliminary steps



Reference to operating principles



Procedure completed



Future article



Tip or recommendation

Understanding emphasis in the document

Example Representative of Linux or DAINSY technical terminology.

Example Represents a Linux command line.

Example Represents the content of a file or the result of a Linux command line.

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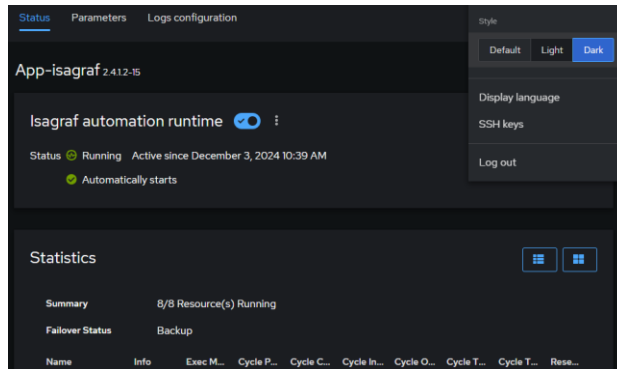
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1 APP-ISAGRAF 2.4.3

1.1 Feature updates

1.1.1 cockpit-dainsy#18 introduce the light/dark theme.

The cockpit panel can now be displayed in light or dark by selecting the style in the session menu.



1.1.2 dainsy#204 keep the firewall profile on uninstall.

When the application is removed, maintain its firewall profile on the system to avoid corrupting the firewall configuration.

1.1.3 dainsy#237 using the `dainsy` beaver historian feature.

Data published in the dictionary now uses the new historian functionality introduced in Daisy Beaver.

A screenshot of a history table titled 'History of app_isagraf_ixl_channels_count'. The table has columns for Time, Value, Quality, Description, and Source. The data shows several entries with values ranging from 7 to 9 and quality of 'Good'. A 'Display limit' of 10 is shown at the top right. An 'OK' button is at the bottom left.

Time	Value	Quality	Description	Source
> 2024-12-03T15:39:57.569Z	8	Good		app-isagraf 2024-12-03T15:39:57.569Z
> 2024-12-03T15:39:57.438Z	9	Good		app-isagraf 2024-12-03T15:39:57.437Z
> 2024-12-03T15:39:57.407Z	8	Good		app-isagraf 2024-12-03T15:39:57.407Z
> 2024-12-03T15:39:57.276Z	9	Good		app-isagraf 2024-12-03T15:39:57.276Z
> 2024-12-03T15:39:57.188Z	8	Good		app-isagraf 2024-12-03T15:39:57.188Z
> 2024-12-03T15:39:55.719Z	7	Good		app-isagraf 2024-12-03T15:39:55.719Z
> 2024-12-03T15:39:55.719Z	8	Good		app-isagraf

2 APP-ISAGRAF 2.4.1

2.1 Feature updates

2.1.1 app-isagraf#60 clean shutdown the app-s8000 application

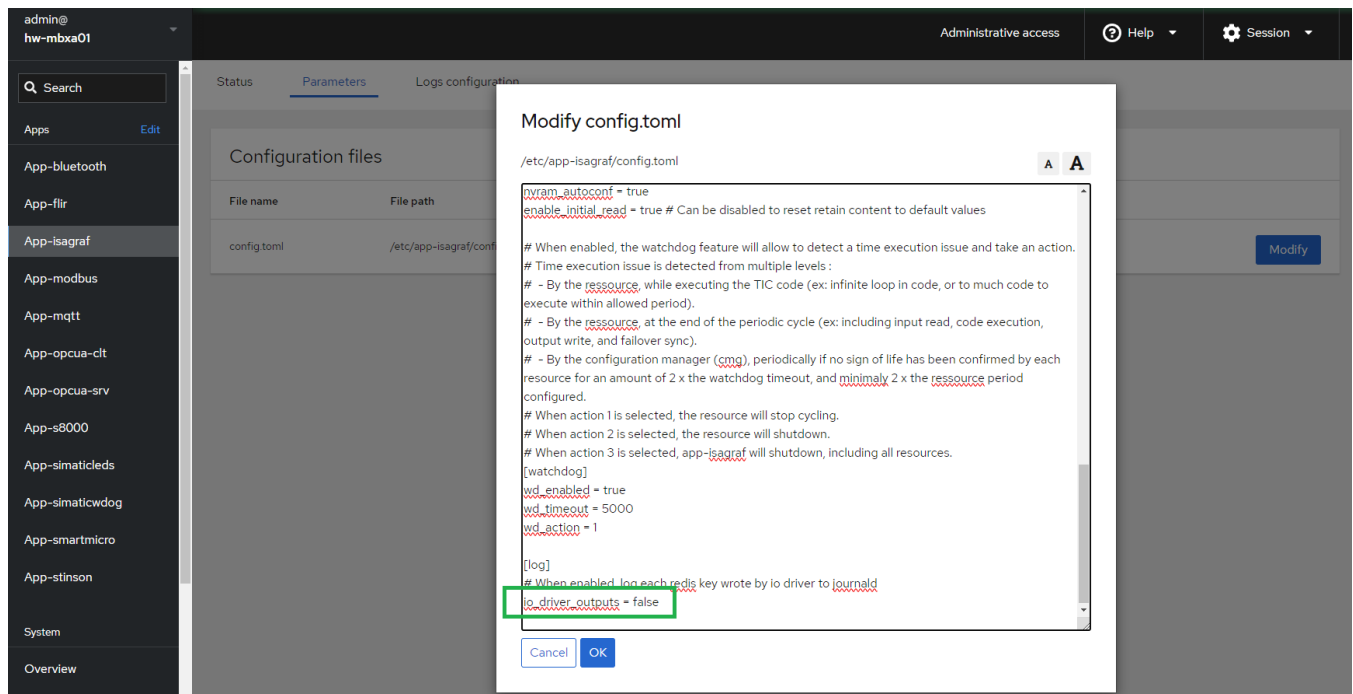
When the `app-s8000` application is installed on DAINSY, it is started and stopped by `app-isagraf` because it depends on it. Shutting down `the app-s8000` now happens properly, without killing the process abruptly. This change was necessary to introduce a new feature: `app-s8000#20` (new performance statistics variables).

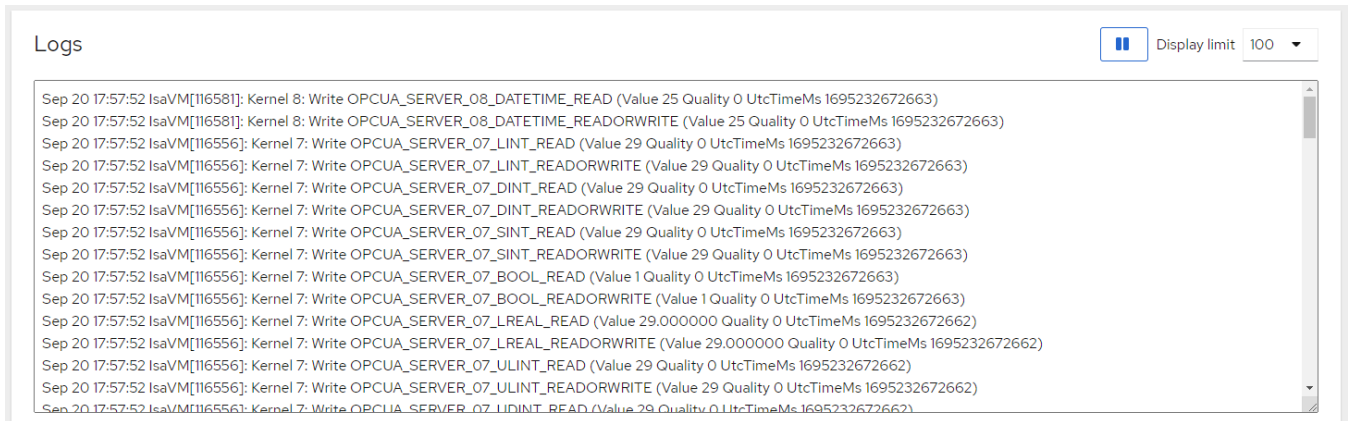
3 APP-ISAGRAF 2.4.0

3.1 Feature updates

3.1.1 app-isagraf#54 trace Redis write operations.

For debugging purposes, it is now possible to display Redis write traces in logs. When the setting is enabled, traces are published at the NOTICE level.



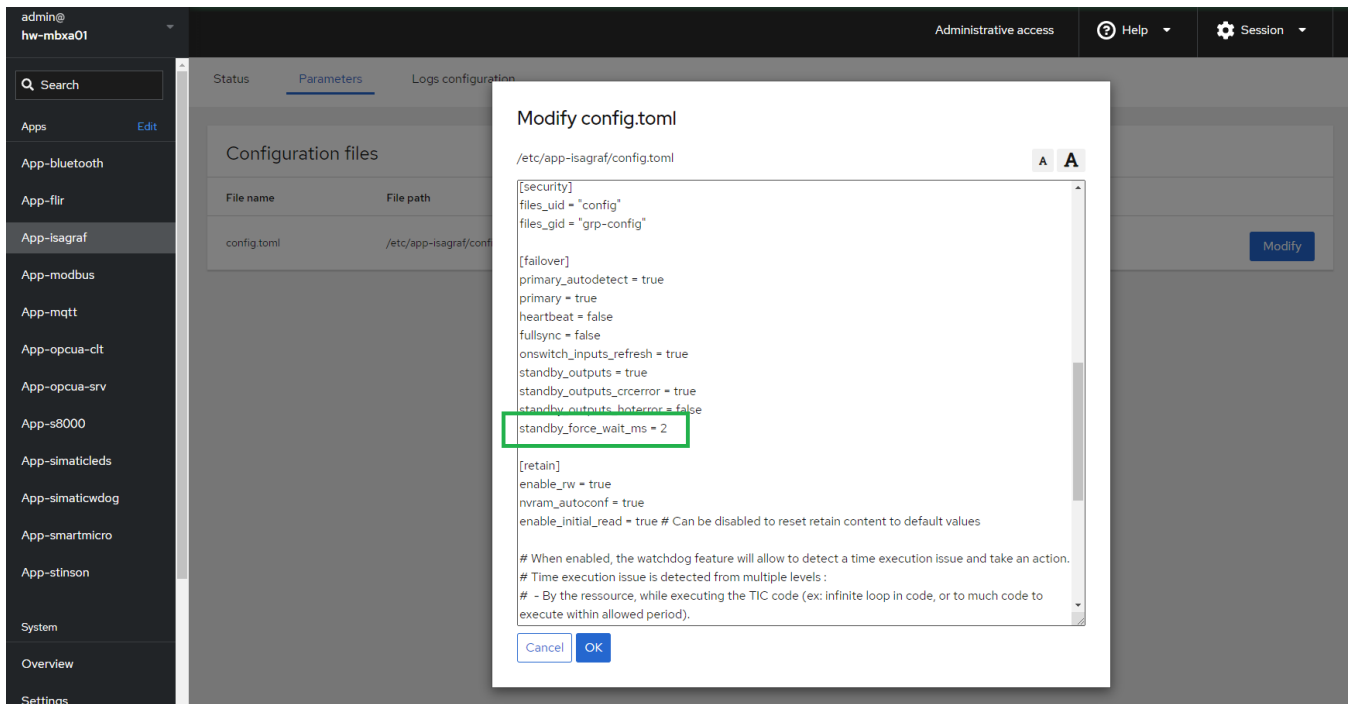


3.1.2 app-isagraf#55 fixes incomplete Redis cleanup when application is closed by software watchdog.

When the application was shut down by the ISaGRAF software watchdog, cleanup of Redis database variables under the ISaGRAF control was not correctly accomplished. Now this behavior is fixed.

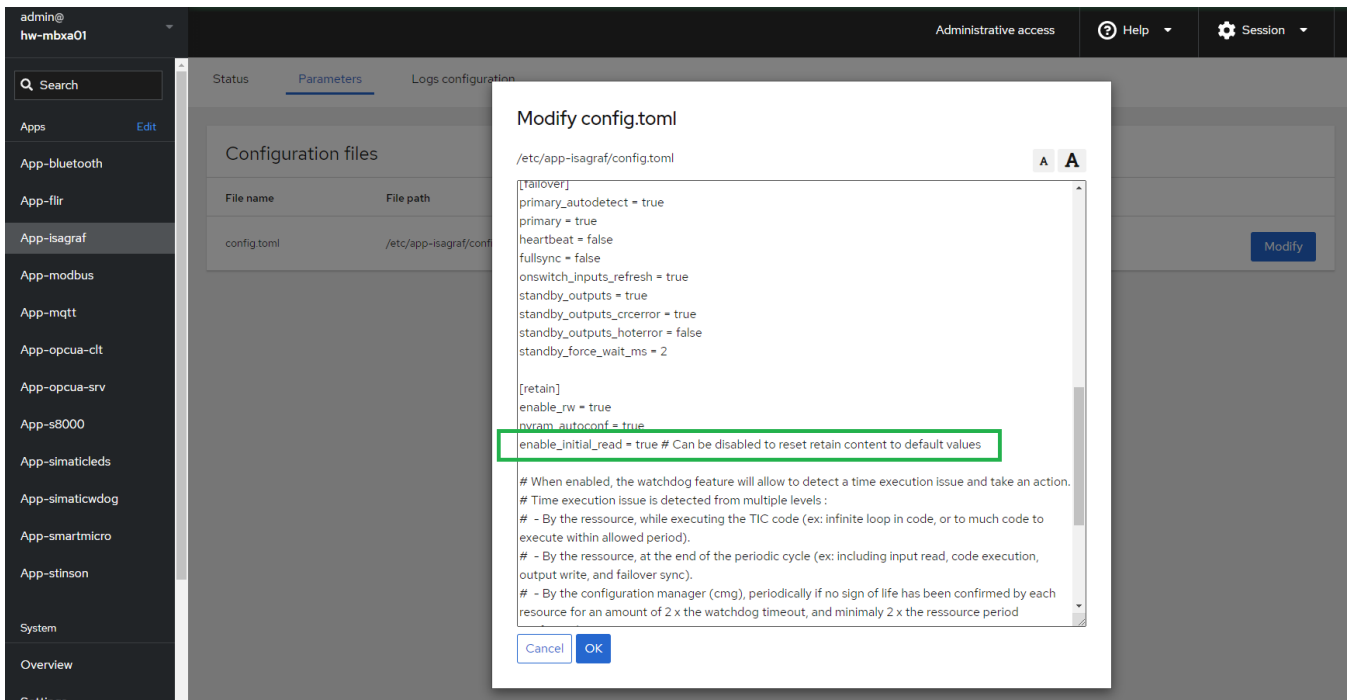
3.1.3 app-isagraf#56 limit CPU usage on backup unit.

When the system is configured with redundancy, the *app-isagraf* service running on the standby unit consumes a lot of CPU. To reduce this consumption at the expense of a small increase in cycle time, a parameter has been added to the configuration file. When it is 0, the previous behavior is applied. The default is now 2ms.



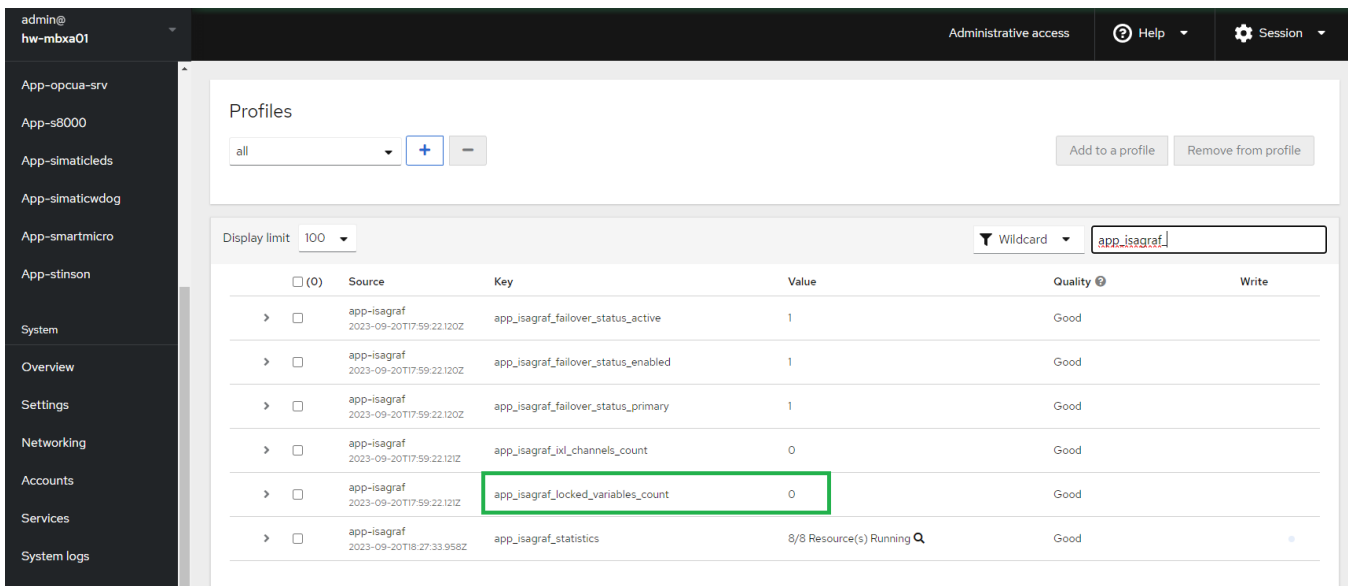
3.1.4 app-isagraf#58 reset the retain memory to default.

When an ISaGRAF application uses RETAIN memory for saving values in case of a power failure and it uses NVRAM media for saving, it can be difficult for the user to reset the device to the default values. To make it easier to reset, a setting was added to the configuration file to bypass the first read of RETAIN memory when app-isagraf starts. Once the application is restarted, the NVRAM is rewritten using the default values configured in the project. The parameter must then be returned to its original state to return to normal production behavior.



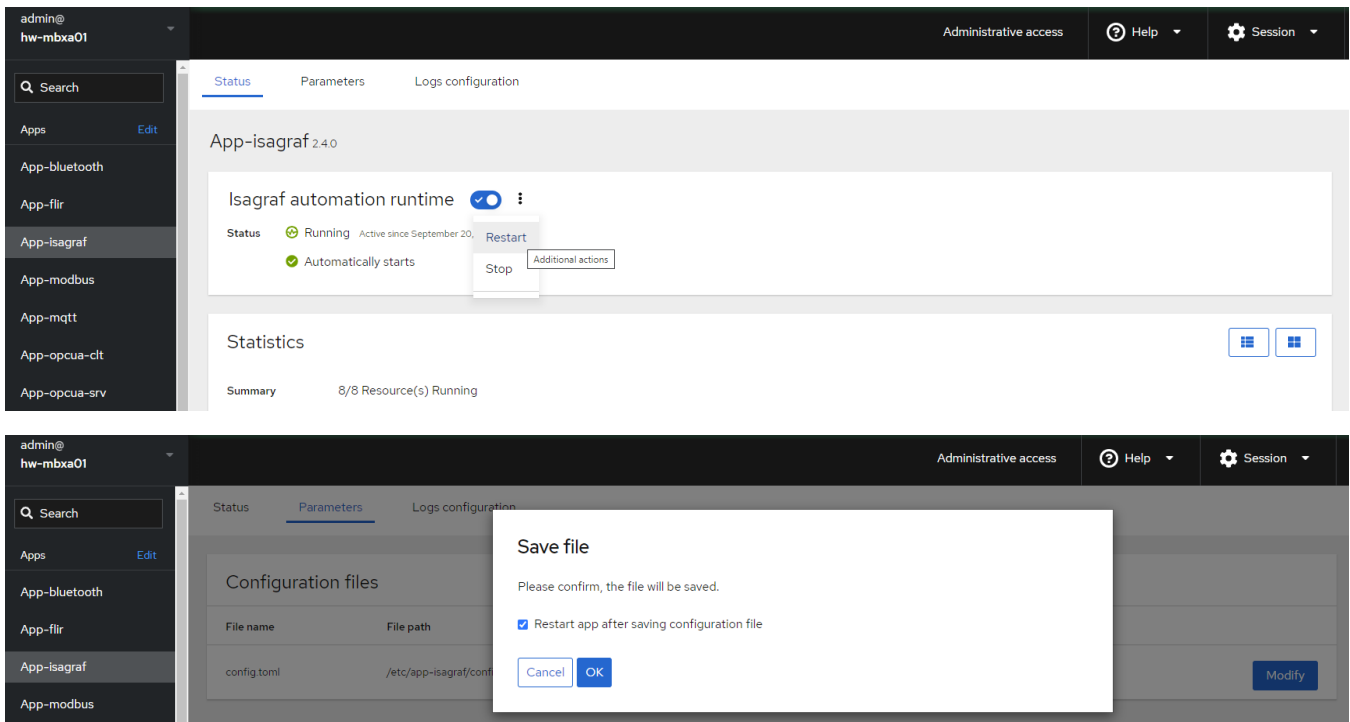
3.1.5 app-isagraf#59 writes the total number of locked variables to Redis.

This new functionality allows the user to obtain the quantity of variables locked in the ISaGRAF runtime. It includes the sum of all locked variables, for all resources, whether they are internal or I/O variables.



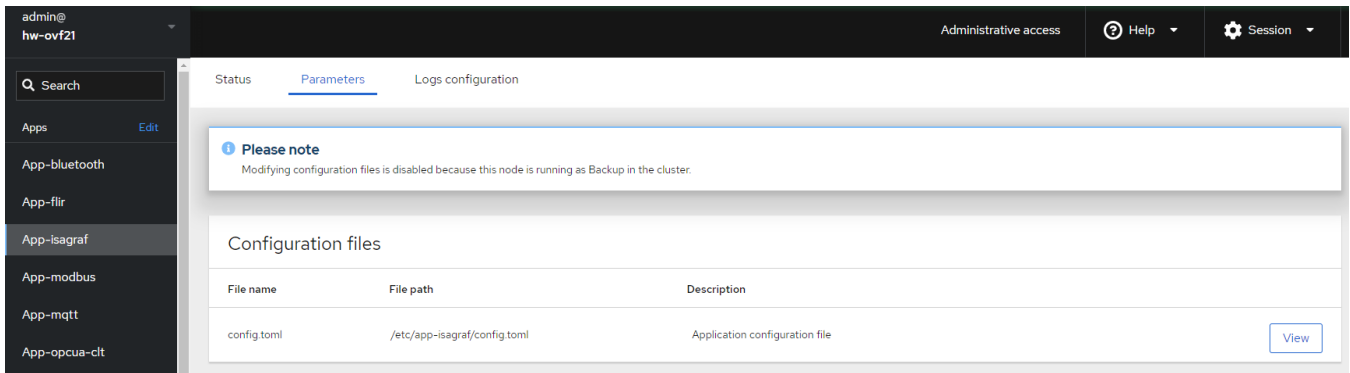
3.1.6 cockpit-app-base#19 make it easier to restart the application.

It is now possible to stop, start, activate, or deactivate the service from the Status tab. In addition, when a configuration file is modified and requires a restart of the application for the change to be applied, the user is asked to respond to the restart action if desired.



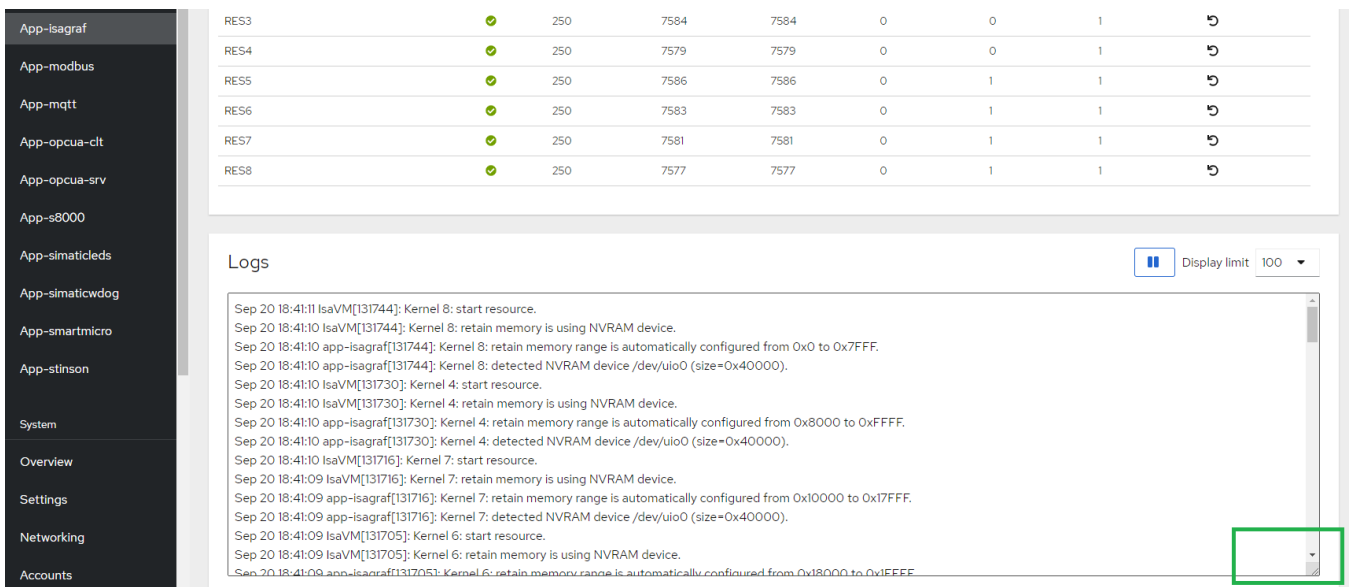
3.1.7 cockpit-app-base#21 does not allow modification of configuration files from the backup unit.

Modification of configuration files is now prohibited on the backup unit of a redundant system because the modification conflicts with the *cluster-sync* synchronization tool.



3.1.8 cockpit-app-base#24 allow resizing of logs section.

The user can now extend the size of the logs section.

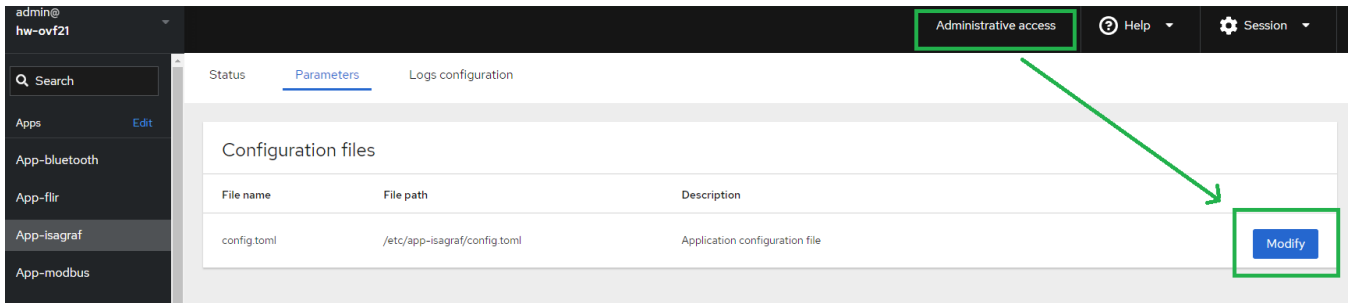


3.1.9 cockpit-app-base#25 manages configuration files permissions.

File access security is now enforced according to the following policies.

- Reading files is always allowed for members of the `grp-config` security group or by super-users who have activated cockpit administrative mode.
- Modification of files deployed in the `/config` folder is allowed for members of the `grp-config` security group or by super-users who have activated cockpit administrative mode.

- Modification of files deployed in other folders is allowed by supers-users who have activated cockpit administrative mode.



3.1.10 dainsy#185 use of control groups (v2) by the creation of dedicated slice for the application.

With the release of DAINSY 4.0.3, the use of control groups is now possible and allows better sharing of machine resources between the installed applications. App-isagraf is now identified in a dedicated slice under the "app" tree and will have guaranteed access to resources according to the distribution established by the DAINSY policy.

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