# Installing an Esia Galaxy server

# Installation

# Requirements

To **MINIMUM** (depending on the number of services), a server or VM with :

- 4 cores (64 bits)
- 4 GB RAM
- 30 GB of disk space
- Debian 12 Bookworm 64-bit (amd64) Telechargeable here
- The Esia Mercury server must have HTTPS access to this Galaxy server.

Here is the link for the step-by-step installation of Debian. When selecting software, I advise you to uncheck everything except '**SSH server**'.

⊘ debian 12
Sélection des logiciels
Sélection des logiciels          Actuellement, seul le système de base est installé. Pour adapter l'installation à vos besoins, vous pouvez choisir d'installer un ou plusieurs ensembles prédéfinis de logiciels.         Logiciels à installer :         environnement de bureau Deblan         GNOME         bureau GNOME Flashback         Cinnamon         LXDE         LXDE         LXQE         LXQE
Capture d'écran Continuer

# Adding the esia repo

In order to install Galaxy on your server, you need to add our repository to the list of trusted repositories on your server. To do this, simply enter the following commands.

#### сору

```
echo "deb http://stable.repository.esia-sa.com/esia bookworm
contrib non-free" >> /etc/apt/sources.list
wget -0- "http://stable.repository.esia-sa.com/esia/gnupg.key" |
apt-key add -
```

### Install packages

Enter the following commands:

#### сору

apt-get update
apt-get install esia-galaxy-base -y

# For remote access to your Galaxy

### **Via Windows**

- via ssh cmd
- PuTTy
- Cygwin
- WinSCP

Example on **PuTTy** Téléchargeable here. Once it has been installed and launched, follow the steps below:

- In the Host Name (or IP address) field, enter the IP address of your Galaxy server.
- In the Port field, enter 22 if it is not already entered.
- Tick SSH.
- Click Open.

🔀 PuTTY Configuration	
Number of the second secon	Basic options for your PuTTY session          Specify the destination you want to connect to         Host Name (or IP address)       Port         example.com       22         Connection type:       Rlogin • SSH • Serial         Load, save or delete a stored session       Saved Sessions         Default Settings       Load         Delete       Delete         Close window on exit:       • Never         Always       Never
About	Open Cancel

The login and password to be entered are those entered for the user created when you installed your **Debian 11 bullseye**.

⊘ debian 12	
Créer les utilisateurs et choisir les mots de passe	
Un compte d'utilisateur va être créé afin que vous puissiez disposer d'un compte différent de celui du superutilisateur (« root »), pour l'u Veuillez indiquer le nom complet du nouvel utilisateur. Cette information servira par exemple dans l'adresse d'origine des courriels émis a ou se sert du nom complet. Votre propre nom est un bon choix. Nom complet du nouvel utilisateur :	tilisation courante du système. ainsi que dans tout programme qui affiche
esia	
Capture d'écran	Revenir en arrière Continuer

# Via Mac or GNU/Linux

- Open a command line terminal
- Type the following command :

сору

ssh \$USERNAME@\$IP

**\$USERNAME** corresponding to the user login and **\$IP** the IP address of your VM.

Example:

```
elessar@julien-esia-pc ~ $ ssh esiauser@10.12.0.203
```

The authenticity of host '10.12.0.203 (10.12.0.203)' can't be established. ECDSA key fingerprint is SHA256:vB+p7UwKmXbdrQDctldkEI5sJIFqz4TdbAK4j8jyqJ4. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added '10.12.0.203' (ECDSA) to the list of known hosts. esiauser@10.12.0.203's password:

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/\*/copyright.

```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.
```

\*\*\*\*\* Welcome to Esia Galaxy !!! \*\*\*\*\*

```
With root permissions. You can configure your server with command "esia-
configure".
```

```
* Network with esia-configure -S net
* Users with esia-configure -S user
* Alerting mail with esia-configure -S mail
```

For example for a first setup :

```
* esia-configure -S user -A add -u galaxy -e jdoe@example.com -P
* esia-configure -S mail -u alert@example.com -P -r
smtp.mail.example.com:465
* esia-configure -S net -M static -i eth1 -a 10.12.0.201 -m 255.255.255.0 -g
10.12.0.254 -n 8.8.8.8
```

For more help, you can :

```
* run esia-configuration --help
* visit page http://wiki.esia-sa.com
* send mail to support@esia-sa.com
* call +32 (0) 42 87 75 80 or +33 (01) 86 95 80 41
```

esiauser@debian-buster:~\$

## Get root(s) rights

Depending on the configuration of your Debian system :

#### Using su :

```
esiauser@debian-buster:~$ su -
Password:
root@debian-buster:/home/esiauser#
```

#### Using sudo :

```
esiauser@debian-buster:~$ sudo -i
Password:
root@debian-buster:/home/esiauser#
```

Note that the password is different depending on the user:

- With su, the password is that of the 'root' user.
- With sudo, the password is that of the current user (esiauser in my example).

# Configuring the Galaxy for the first time

The command **esia-configure** command on your **Esia Galaxy** to perform the configuration operations required for your server to function correctly. This command allows you to :

- Create and manage future administrators (root group in the interface) of your esia.
- Configure your network interface.
- configure an SMTP server to send alerting emails.

Users managed by **esia-configure** are those who will be able to access the Esia web interface. To configure Debian users (SSH connection for example). Use the basic GNU/Linux commands:

- change the root password : passwd
- change the user password (user with esiauser login) passwd esiauser

This tutorial explains the main uses of **esia-configure**. For more advanced use, see the :

#### сору

esia-configure --help

# Creating the first user IDs

I recommend that you start by creating 2 user IDs, 1 for yourself and one for your Esia Infinity server. The syntax is :

#### сору

esia-configure -S user -A add -u \$LOGIN -e \$EMAIL -P

The options are :

- 1. S user (Section) to specify that you want to act on the user section
- 2. A add (Action add) to specify that you want to add a user
- 3. u \$LOGIN (User) replace \$LOGIN with the desired user.
- 4. e \$EMAIL (Email) replace \$EMAIL with the email address of the desired user.
- 5. P (Prompt password) to enter the user password securely. (The -p \$PASS option, used in certain cases, will keep the password in the history of commands entered).

Examples for creating an Infinity user and a jdoe user :

```
root@debian-buster:/# esia-configure -S user -A add -u jdoe -e
jdoe@example.com -P
Password:
Confirm password:
Do you want to add user jdoe,jdoe@example.com with root permissions
Do you wish to apply this ? (y,n) y
root@debian-buster:/#
root@debian-buster:/# esia-configure -S user -A add -u infinity -e
infinity@example.com -P
Password:
Confirm password:
Do you want to add user infinity,infinity@example.com with root permissions
Do you wish to apply this ? (y,n) y
```

If your Galaxy can already be reached on the web (IP address and/or urls already configured), the user jdoe can now connect and you can integrate your Esia Galaxy into your Esia Infinity server (with the infinity login).

### Configuration of the email alerting system

Before starting, you need an SMTP mail server capable of relaying the mails generated by your Esia server. This mail server must of course be reachable by Esia. To access this mail server, the Esia server will need to know :

- the email address that the Esia server will use to send these emails. (Example: no-reply@example.com or alert@example.com)
- the IP or domain name of your relay mail server.
- SMTP port used (25, 465, ...).
- an authentication login if necessary.
- the password corresponding to the login if necessary.

The command syntax is :

#### сору

esia-configure -S mail -f \$EMAIL -r \$HOST:\$PORT -u \$LOGIN -P

Not all parameters are mandatory. They correspond to :

- -S mail (Section) to specify that you wish to act on the mail section
- f \$EMAIL (From) replace \$EMAIL with the email address assigned to the server (Example: noreply@example.com)
- r \$HOST:PORT (Relayhost) replace \$HOST with the url of your mail server (smtp.example.com) and \$PORT with the port (25,465, ...)
- 3. u \$LOGIN (User) replace \$LOGIN with the desired user.
- 4. P (Prompt password) to enter the user password securely. (The -p \$PASS option, used in certain cases, will keep the password in the history of commands entered.)

Example:

```
root@debian-buster:/# esia-configure -S mail -f alert@example.com -r
smtp.example.com:465 -u alert -P
Password:
Confirm password:
This settings will be set :
From changed => alert@example.com
Relayhost: => smtp.example.com:465
User changed => alert
Pass changed
Do you wish to apply this ? (y,n) y
root@debian-buster:/#
```

Now test your SMTP connection Test sending emails.

### Server network configuration

Always use the command **esia-configure**.

The possible syntaxes are :

```
esia-configure -S net -M static -i $IFACE -a $IP -m $MASK -g $ROUTER -n
$DNS1,$DNS2
esia-configure -S net -M static -i $IFACE -a $IP -m $MASK
esia-configure -S net -M static -i $IFACE -g $ROUTER
esia-configure -S net -n $DNS1,$DNS2
```

The parameters are :

- 1. S net (Section) to specify that you want to act on the net section.
- 2. M static|dhcp (Mode) to specify whether the interface is to be configured as static or dhcp.
- 3. i \$IFACE (Interface) network interface to configure (eth0, ...).
- 4. a \$IP (Address) is the IP address assigned to the network interface.
- 5. m \$MASK (Mask) is the subnet mask corresponding to the IP address (255.255.255.0, ...).
- 6. g \$ROUTER (Gateway) is the gateway or router used to exit the network.
- 7. n \$DNS1,\$DNS2 (Nameservers) is the dns server(s) to be used. (List separated by « , » the first being given priority).

Warning: if you are using an SSH connection, changing the network configuration may cause the connection to be lost (possible crash of the current terminal). You must then reconnect to the new IP address.

Example :

```
root@debian-buster:/# esia-configure -S net -M static -i eth0 -a
192.168.1.10 -m 255.255.255.0 -g 192.168.1.1 -n 192.168.1.1,8.8.8.8
#Generate configuration is :
##For /etc/network/interfaces
iface lo inet loopback
auto eth1
allow-hotplug eth1
iface eth1 inet static
    address 10.12.0.203
   netmask 255.255.255.0
    broadcast 10.12.0.255
auto eth0
allow-hotplug eth0
iface eth0 inet static
    address 192.168.1.10
   netmask 255,255,255.0
```

gateway 192.168.1.1

```
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```

```
##For /etc/resolv.conf
domain esia.local
search esia.local
nameserver 192.168.1.1
nameserver 8.8.8.8
```

#If you apply, your ssh connection could be lost
#Do you wish to apply this ? (y,n) y

# Go to your Esia main web page and add the licence

After the update, connect to your Esia server and refresh your browser cache (ctrl +F5 in Firefox). The menu button bugs will be corrected. Once this is done, you will notice two error messages in your Esia:

```
Error Esia program not started
```

and

Licence not found. click here to add a licence file

[	A Erreur le programme Esia n'est pas démarré
Γ	A Licence non trouvée. cliquez ici
l	pour ajouter un fichier licence

These 2 error messages are linked, the Esia daemon cannot start until the licence is activated.

To activate it, simply :

- 1. Click on the link here in the error message.
- 2. Click on the button load the licence file.
- 3. Click on the button Apply

BONJOUR VACRANT	Accueil + A propos		
		Erreur le programme Esla n'est pas démarré      Licence non trouvée. cliquez ici     pour ajouter un fichier licence	
LICENCE			
Charger le fichier de licence			
esia.lic			
Appliquer			

The licence error message disappears. But Error Esia program not started is still present. See next step.

#### Wait for the Esia daemon to restart or launch it manually

At this stage, either :

- Wait a few minutes (between 0 and 5 minutes)
- Run the following command:

сору

service esia restart

The error message in the interface will disappear.

# Integrating a Galaxy into an Infinity/Mercury

# Adding the Galaxy node

To do this, you need to add a 'Galaxy' node

- 1. Go to the node administration page (jagged wheel in the menu).
- 2. Click on the 'Add a new node' button (in the 'Nodes' tab, top right button to the left of the printer icon).

Ø		ETAT DES 0 1 0 ETAT DES 0 1 0 0 4
	BONJOUR ESIA-02 Accueil + Administration	2 0 0 1
	🍘 NOEUDS 🎨 GROUPES DE NOEUDS 🏷 PLUGINS 🚊 UTILISATEURS 🎎 GROUPES 🛓 DROITS 🤊 LOCALISATIO	
	NOEUDS	Q ⊕ Ⅲ ≪ < 1 to 1 (1) > >>
	NOM DU NOEUD <sup>©</sup> GROUPE <sup>©</sup> TYPE DE NOEUD <sup>©</sup> ADRESSE IP	° DESCRIPTION ° NOMBRE DE SERVICES ° ACTION
€C	cloud server 127.0.0.1	serveur interne 7 🔍 🔍 🗊
0		
۲		
۲		

- 3. Configure your node in the same way as all other nodes.
  - Give it a name.

- Configure an IP address
- $\circ\,$  Be careful to choose the type of node: Galaxy.

AJOUTER UN NOEUD			(
INFORMATIONS GÉNÉRALES			
Nom du noeud	Type de noeud	Croupe	
Galaxy	Access Point	▲ galaxy ×	
	ga		
Adresse IP	<u>Ga</u> laxy		
10.12.0.201	none		
Description			
INFORMATIONS SNMP			
Version SNMP			
none	×		
			Ajouter

- 4. Configure the connection parameters to the Galaxy server.
  - $\circ \,\, \text{A URL}$
  - $\circ$  A port
  - $\circ\,$  A login configured (on the Esia Galaxy) using the 'esia-configure' command line or the web interface.

AJOUTER UN NOEUD	$\odot$
CONFIGURATION	
URL de connexion :	http://10.12.0.201
Port de connexion :	80
Utilisateur :	galaxy
Mot de passe :	
Retour Sauver	

5. This setting is saved in the node's "Advanced settings" under the name API. You can change it later.

				Mise à jour avec succès			
alaxy 🔘							
MODIFICATION DU NOEUD	PARAMÈTRES AVANCÉS	SERVICES	ALERTES	PATTERN DE SERVICES			
Ajouter une configuration av	ancée Select an Option	* Ај	jouter				
		PARAMÈTRES	AVANCÉS			A	CTION
API					Ê		

6. You can now view your Galaxy in the Node Administration page and click on the small magnifying glass to view Galaxy status and/or configure/add services.

			UDS 🏷 PLUCINS										
	NOEUDS									🕞 🖨 🎹 « <	1 to 2 (2)	> >>	•
۲	NOM DU	NOEUD <sup>©</sup>	GROUPE	≎түре	DE NOEUD	A	ORESSE IP	DESCRIPTION	0	NOMBRE DE SERVICES	0	ACTION	
€ C	Galaxy	ga	alaxy	galaxy		10.12.0.201				0	<b>R</b> 0 t	1	
0	cloud			server		127.0.0.1		serveur interne		7	۵ ک	r	

## Galaxy node pages

On your Infinity, when you click to view your Esia Galaxy node, you go directly to the 'Service Status' tab. Here you can see :

- The 'Information' table containing status information on Galaxy equipment and services and a direct access button.
- The 'Resources' table containing access times to the Galaxy web interface and database.
- Graphs showing the performance of the computer running the Galaxy.
- Graphs showing the status of nodes and the Galaxy service.

You'll also see the usual 'Service Status' table, where you can see which monitoring services have been added.

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	BONJOUR ESIA-02 Accueil > Noeuds > galaxy	y › Galaxy			🚨 🔍 🌒 🔒
	GALAXY				un 🕄 🗹 🖉 🖉
		ÉT	AT DE GALAXY	Noeud : Galax	1
	100 - 80 - 60 - 40 - 20 -	· · · · ·		Adresse IP : IC Groupe : galax Nombre de se Description :	nzador rrvices : 0
	25-0	09 27-09 29-09 0	1-10 03-10 05-10 07-10 09-1		
0	TATS DES SERVICES	QUE I RAPPORT	QUES ALERTES EN COURS	5	
	INFORMATIONS		CHARGE DU PROCESSEUR		ETAT DES NOEUDS
	Galaxy :	Accéder			
۲	Nombre d'équipements :	3	0 1 100		
	Nombre de services :	17	MÉMOIRE RAM - SWAP		
<b></b>	Nombre de type d'équipements :	2			OK ALERTE CRITIQUE INCONNU
£ 💦	RESSOURCES		32 5		ETAT DES SERVICES
2025	Interface WEB	0.001s			
	Base de données	0.009292s			
			0 <b>24</b> 100		OK ALERTE CRITIQUE INCONNU
	ETAT DES SERVICES				
	SERVICE	≎ status	OERNIÈRE EXÉCUTION	0	INFORMATIONS <sup>©</sup> ACTION <sup>©</sup>

The Current Alerts tab lets you view your Galaxy's alerts page as if you were there.

Ø		ETAT DES NOEUDS	o	1	0 0	ETAT DES SERVICES	6	1 0	• 4
	BONJOURESIA-02 Accuell > Noeuds > galaxy > Galaxy							2	
<u> </u>	GALAXY							📮 🤇	) 🗹 🕹 🥮
	ÉTAT DE GALAXY	N	loeud : Galax	(					
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$\bigcirc$	0 etats des services $0$ historique $0$ rapport $1$ graphiques $1$ alertes en cours $0$ groupes de normalized de la cours $0$ groupes de normalized de la cours de	EUDS							
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۲	Squid server			Critique	•		Mém	noire - RAM	

The "Node groups" tab allows you to add services to monitor the status of a group of nodes.

Ø		ETAT DES 0 1 0 ETAT DES 0 1 0 4
	BONJOUR ESIA-02 Accueil > Noeuds > galaxy > Calaxy	
	CALAXY	
	ÉTAT DE GALAXY	Noeud : Calaxy
		Groupe galaxy Nombre de services : 0 Description :
€ C	25-09 27-09 28-09 01-10 02-10 05-10 07-10 08-1	
0	🛞 ETATS DES SERVICES 🕘 HISTORIQUE 🕘 RAPPORT 🔊 CRAPHIQUES 🛓 ALERTES EN COURS 📽	OEUDS
	• •	NOM DU GROUPE °
	server	

You can view the newly added group supervision services directly in the service status.

$\bigcirc$	🛞 ETATS DES SERVICES 🕘 HISTORIQU	JE I RAPPORT	QUES 🛕 ALERTES EN COURS 📽 o CROUPES DE NOEUDS	
	INFORMATIONS		CHARGE DU PROCESSEUR	ETAT DES NOEUDS
	Galaxy :	Accéder		
۲	Nombre d'équipements :	3	0 1 100	
	Nombre de services :	17	MÉMOIRE RAM - SWAP	
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500	RESSOURCES		0 32 100 0 5 100 ESPACE DISQUE	ETAT DES SERVICES
12-2-4 <sup>1</sup>	Interface WEB	0.001s		$\bigcirc$
	Base de données	0.009292s		
			o 24 100	OK ALERTE CRITIQUE INCONNU
	ETAT DES SERVICES			
	SERVICE	≎ status		INFORMATIONS <sup>¢</sup> ACTION <sup>¢</sup>
	Etat du groupe - server			۲.

# **Adding services**

There are currently 3 monitoring plugins that can be applied to a Galaxy.

- The CHECK\_API\_ALERT plugin for checking whether alerts are present on the Galaxy.
- The CHECK\_API\_GROUPNODE\_STATE plugin for checking the status of groups of nodes (see above to see how to add it simply).
- The CHECK\_API\_NODE\_STATE plugin for monitoring the status of any node based on its name.

On the Galaxy node's "Service Status" page, in the top right-hand corner, you can click on the icon (hand with toothed wheel) to add new services.

	BONJOUR ESIA-02 Accueil > Noeuds > gala	xy › Galaxy		
	GALAXY			
		É	AT DE GALAXY	Noeud : Galaxy
	100- 80 - 60 - 40 - 20 -		· · · · · · · · · ·	Groupe (galaxy Nombre de services : 0 Description :
	25	-09 27-09 29-09 0	1-10 03-10 05-10 07-10 09-1	
0	ETATS DES SERVICES     HISTORI	QUE I RAPPORT	QUES 🛕 ALERTES EN COURS 📽 🖓 GROUPES DE NOEUDS	
	INFORMATIONS		CHARGE DU PROCESSEUR	ETAT DES NOEUDS
	Galaxy :	Accéder		
۲	Nombre d'équipements :	3	0 % 100	
	Nombre de services :	17	MÉMOIRE RAM - SWAP	
	Nombre de type d'équipements :	2		OK ALERTE CRITIQUE INCONNU
٤)	RESSOURCES		32 5	ETAT DES SERVICES
6-T-5	Interface WEB	0.001s	0 % 100 0 % 100	
	Base de données	0.009292s		
			0 <b>24</b> 100	OK ALERTE CRITIQUE INCONNU

Using the service name filter, with the word "API", we can see our 3 Galaxy plugins.

MODIFIER GALAXY	×
Calaxy 🔘	N
MODIFICATION DU NOEUD PARAMÈTRES AVANCÉS SERVICES ALERTES PATTERN DE SERVICES	
RECHERCHER	
Utiliser les champs de recherche pour trouver les plugins associés ) votre noeuds. Par exemple: taper "windows" pour afficher les plugins liés à Microsoft Windows ou selectionner HP dans les fabricants.	
Par non api     Par type de plugin     Select an Option     Par fabricant     Select an Option     Par tag	
PLUCINS Configurer Ajout rapide	
Nom: Etat global       Nom: Etat du groupe       Nom: Etat du noeud         Nom du plugin: CHECK_API_ALERT       Nom du plugin: CHECK_API_GROUPNODE_STATE       Nom du plugin: CHECK_API_NODE_STATE         Type: CHECK       Type: CHECK       Type: CHECK         Tag:       Tag:       Tag:	

To add the CHECK\_API\_ALERT plugin, simply tick it and then click on 'Quick add'.

MODIFIER GALAXY		×	
Galaxy 🔘		$\bigcap$	
MODIFICATION DU NOEUD PARAMÈTRES AVANCÉ	SERVICES ALERTES PATTERN DE SERVICES		
RECHERCHER			
Utiliser les champs de recherche pour trouver les plugins associés ) votre noeuds. Par exemple: taper "windows" pour afficher les plugins liés à Microsoft Windows ou selectionner HP dans les fabricants.			
Par nom api Par type de plugi	Select an Option    Par fabricant Select an Option   Par tag		
PLUGINS	Configurer	Ajout rapide	
Nom: Etat global Nom du plugin: CHECK_API_ALERT Type: CHECK Tag:	Nom: Etat du groupe       Nom: Etat du noeud         Nom du plugin: CHECK_API_GROUPNODE_STATE       Nom du plugin: CHECK_API_NODE_STATE         Type: CHECK       Type: CHECK         Tag:       Tag:	۲	
Nom du service: CHECK_API_ALERT Intervalle: 5 minutes	•		

If you wish to monitor the status of a particular node, you will need to click on the "Configure" button.

MODIFIER GALAXY2			
Galaxy2 O Modification du noeud paramètres avancés services alertes pattern de services			
RECHERCHER			
Utiliser les champs de recherche pour trouver les plugins associés ) votre noeuds. Par exemple: taper "windows" pour afficher les plugins liés à Microsoft Windows ou selectionner HP dans les fabricants.			
Par nom     api     Par type de plugin     Select an Option <ul> <li>Par fabricant</li> <li>Select an Option</li> </ul>	* Par tag		
PLUGINS	Configurer Ajout rapide		
Nom: Etat global       Nom: Etat du groupe         Nom du plugin: CHECK_API_ALERT       Nom du plugin: CHECK_API_GROUPNODE_STATE         Type: CHECK       Type: CHECK         Tag:       Tag:	Nom: Etat du noeud Nom du plugin: CHECK_API_NODE_STATE Type: CHECK Tag:		
	Nom du service: CHECK_API_NODE_STATE		
	Intervalle: 5 minutes -		

Enter the name of the node to be monitored.

MODIFIER GALAXY (	×
Galaxy 🔘	
MODIFICATION DU NOEUD PARAMÈTRES AVANCÉS SERVICES ALERTES PATTERN DE SERVICES	
CONFIGURED	
CONFIGURER	
Nom du service: CHECK_API_NODE_STATE Intervalle 300 🐑 secondes Priorité 4 🔻	
Paramètres du service	
Tester les paramètres	
Ajouter	

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