



Procedura di Accensione e Spegnimento Storage OpenStor in Failover

Premesse:

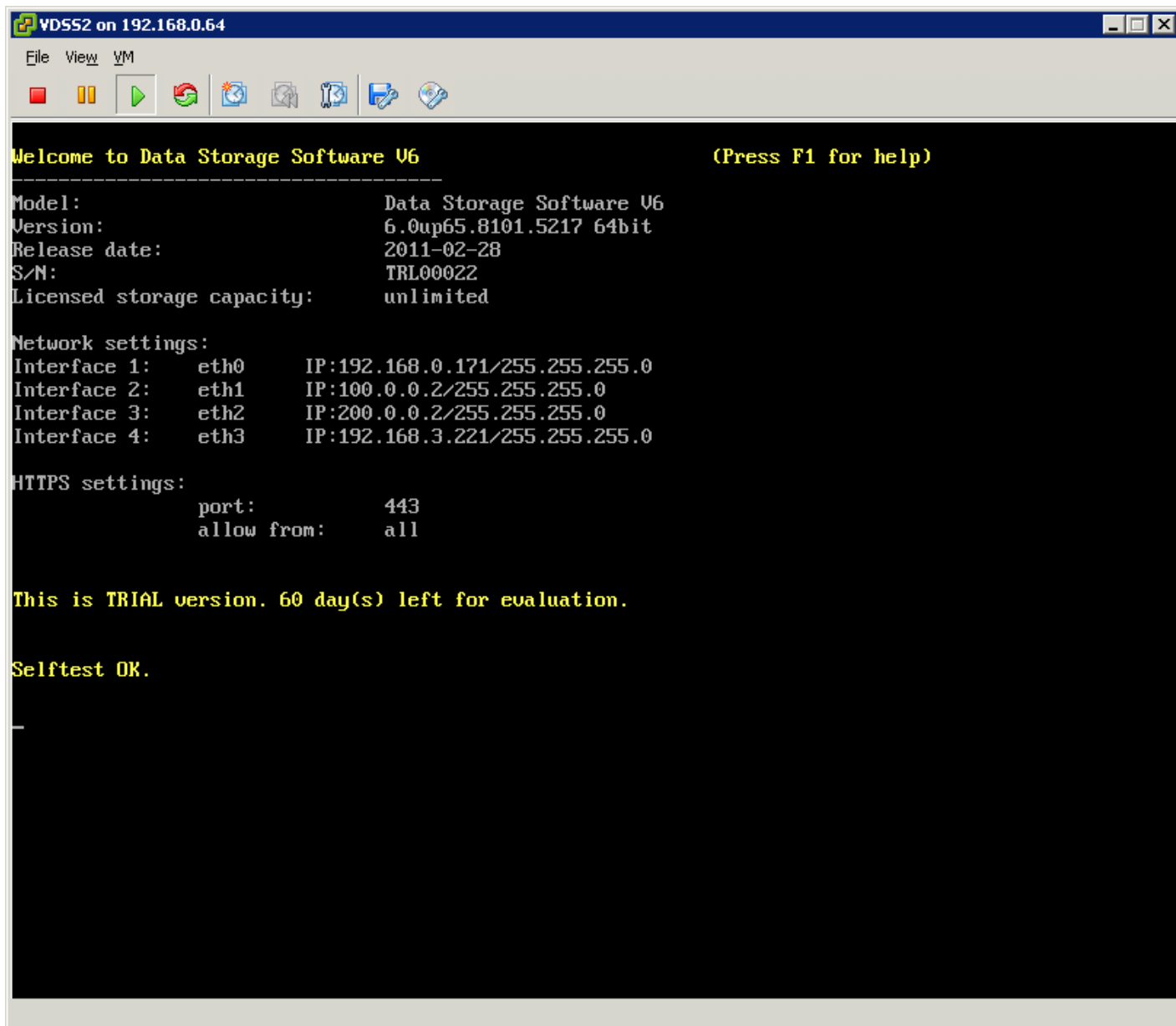
- Lo Storage Primario/Attivo è chiamato **VDSS1**, quello Secondario/Passivo **VDSS2**
- Per "console" si intende la visualizzazione tramite interfaccia IPMI oppure da Monitor collegato allo storage
- Nell'esempio riportato è presente solo 1 Volume iSCSI in replicazione, nel caso di più volumi applicare le operazioni descritte per il singolo per ogni volume in replicazione.
- Tutte le operazioni devono essere effettuate conoscendo approfonditamente lo stato dell'intero sistema Host/Storage, è altresì richiesto che gli storage siano stati configurati per inviare le Email di segnalazione.

Attenzione: per tutti i casi in cui gli storage differiscano come "stato" rispetto a quanto descritto dal presente documento, richiedere l'intervento di un tecnico specializzato OpenStor, un'errata manovra potrebbe causare perdita di dati.

PROCEDURA DI ACCENSIONE



- Avviare lo Storage Secondario VDSS2



- dalla console del VDSS2 attendere fino alla schermata di "welcome"

vdss2 - Data Storage Software V6 - Windows Internet Explorer

https://vdss2/ Errore certificato Google

open-e | ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS DATA STORAGE SOFTWARE V6

LOGIN PANEL

Admin. Level
Full Access

Password

LOGIN

Welcome to Open-E
Data Storage Software (DSS) V6

Data Storage Software V6 - All rights reserved

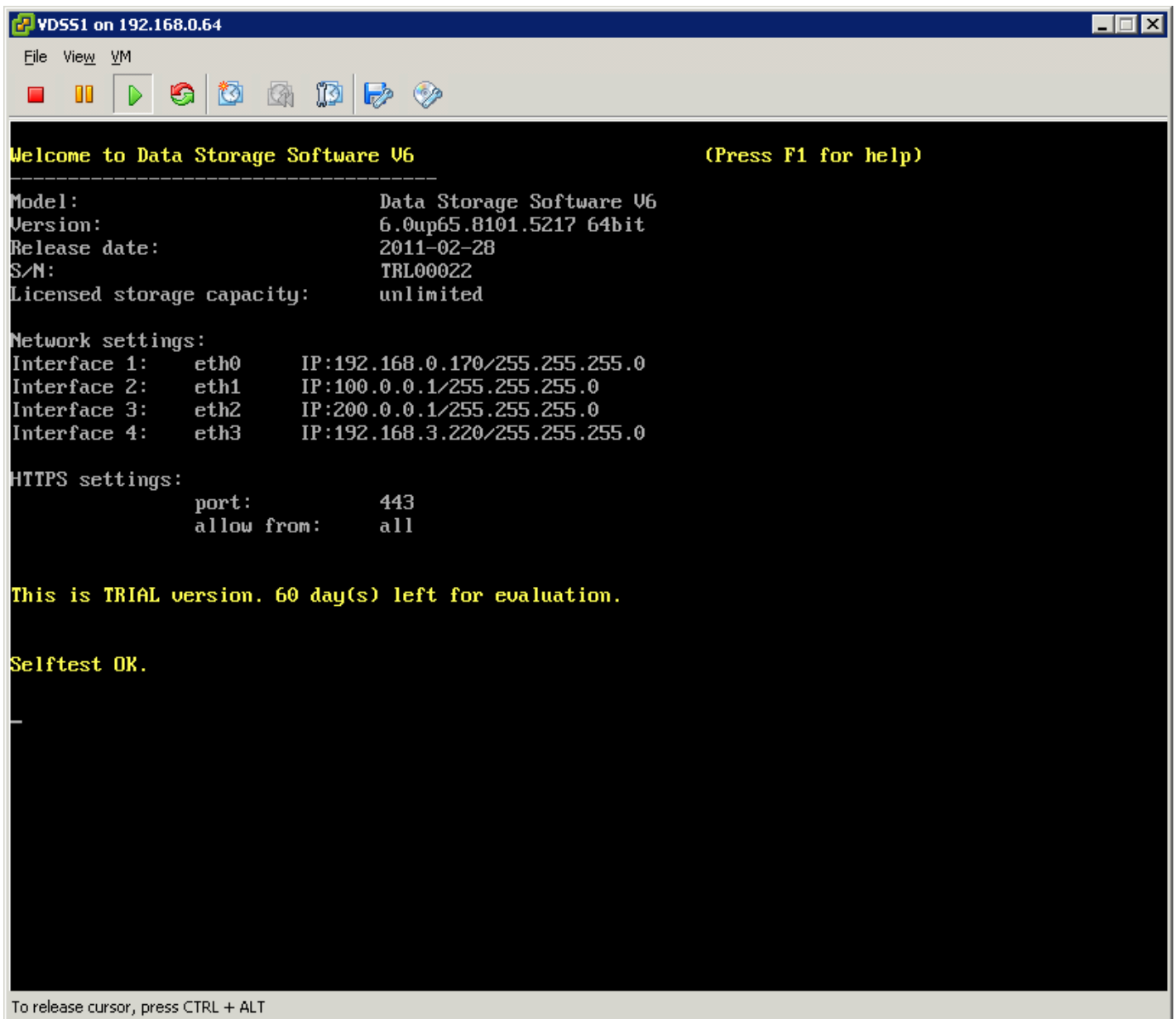
Internet 100%

- Effettuare il login sull'interfaccia WEB del VDSS2

The screenshot shows the Open-e Data Storage Software V6 web interface. The navigation menu includes SETUP, CONFIGURATION, MAINTENANCE, STATUS, and HELP. Under CONFIGURATION, the 'volume manager' menu is expanded, showing options like Vol. groups, Vol. replication, and Volume replication mode. The 'Vol. replication' option is selected, leading to the 'Volume replication mode' configuration page. This page displays a table with columns for Logical Volume, Init, Source, Destination, and Clear metadata. The row for 'lv0000' shows 'done' in the Init column, and the Destination checkbox is checked. Below the table is an 'apply' button. Further down, the 'Mirror server IP' section has an 'IP address' field set to '200.0.0.1' and a 'WAN' checkbox. Another 'apply' button is present. The footer indicates a trial version with 60 days left for evaluation.

Controllare che il volume di replicazione dello storage secondario sia in “**Destination**”

Menu: **CONFIGURATION** -> **volume manager** -> **Vol. replication** -> nel riquadro **Volume replication mode** deve essere spuntato **Destination**



- Avviare lo Storage Primario VDSS1 e attendere fino alla schermata di "welcome"

vdss1 - Data Storage Software V6 - Windows Internet Explorer

https://vdss1/ Errore certificato Google

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Welcome to Open-E
Data Storage Software (DSS) V6

LOGIN PANEL

Admin. Level
Full Access

Password

LOGIN

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Internet 100%

- Effettuare il login sull'interfaccia WEB del VDSS2




Controllare che il volume di replicazione dello storage Primario VDSS1 sia in **“Source”**

Menu: **CONFIGURATION -> volume manager -> Vol. replication ->** nel riquadro **Volume replication mode** deve essere spuntato **Source**

The screenshot shows the web interface for Data Storage Software V6. The browser window title is "vdss1 - Data Storage Software V6 - Windows Internet Explorer". The address bar shows "https://vdss1/". The interface has a top navigation bar with "open-e" logo and "ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS". Below this is a menu with "SETUP", "CONFIGURATION", "MAINTENANCE", "STATUS", and "HELP". The current page is "Vol. replication" under "CONFIGURATION" > "volume manager".

The left sidebar has two sections: "Vol. groups" with a sub-item "vg00" and "Vol. replication" with a sub-item "mirror".

The main content area has a header "Create new volume replication task" and an "Info" message: "No volumes with replication functionality found or all volumes have a task assigned already." Below this is the "Replication tasks manager" section, which contains a table with the following data:

Name	Start time	Action
mirror	2011-07-19 00:53:08	  
Source volume:	lv0000	
Destination volume:	lv0000	
Destination IP:	200.0.0.2	
Protocol type:	Synchronous	

At the bottom of the interface, there is a message: "This is TRIAL version, 60 day(s) left for evaluation." and "Data Storage Software V6 - All rights reserved". The browser status bar shows "Internet" and "100%".

Controllare che il task di replicazione dello storage Primario VDSS1 sia avviato

Menu: **CONFIGURATION -> volume manager -> Vol. replication ->** nel riquadro **Replication Task manager** controllare che il/i task del Volume/i di replicazione siano avviati verificando lo **Start Time**, nell'eventualità che il task non sia avviato premere il relativo pulsante in verde e attendere la comparsa dello **Start Time**.

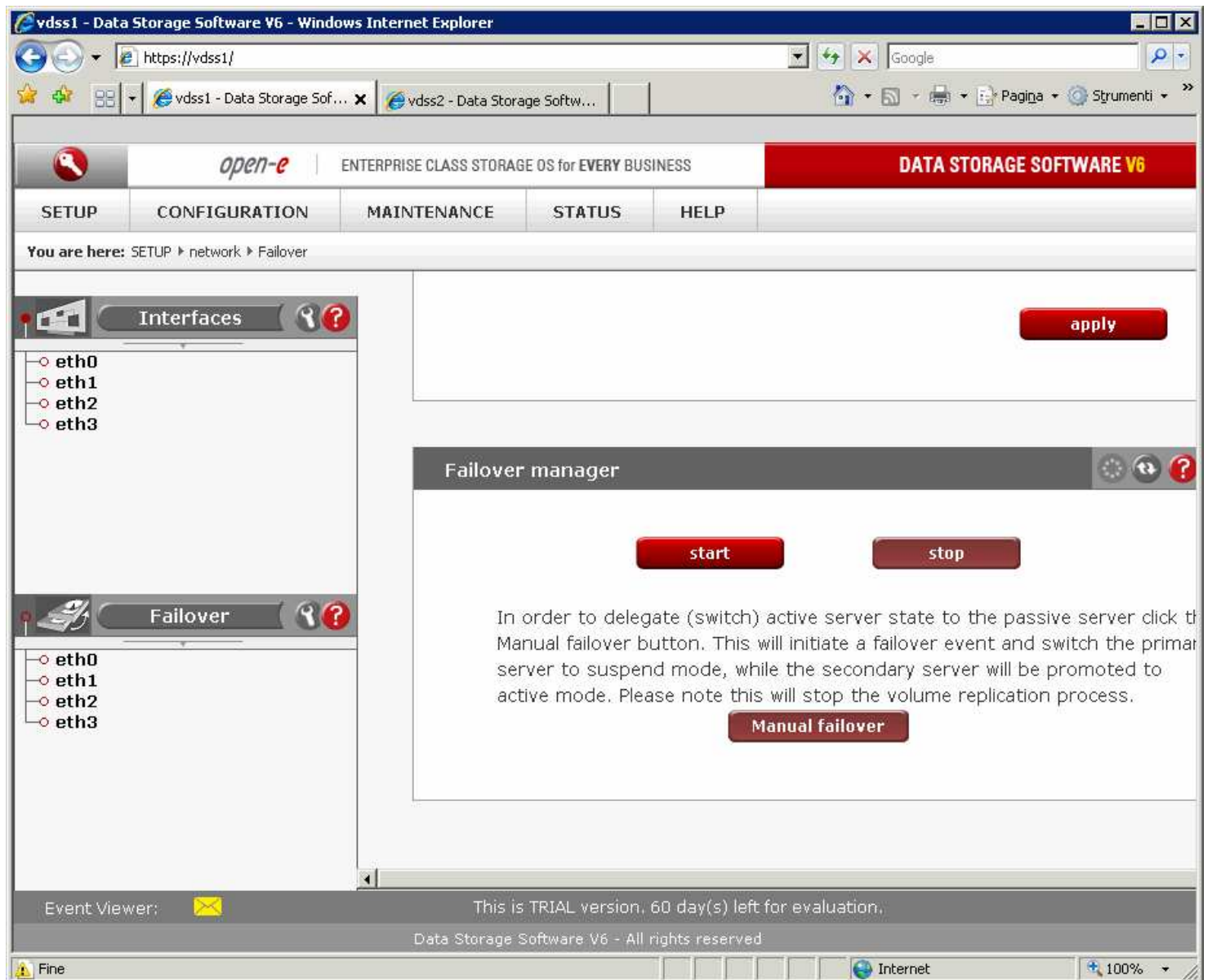
The screenshot shows the web interface for Data Storage Software V6. The navigation menu on the left is expanded to show the 'Failover' option under the 'network' category. The main content area displays the 'Failover status' page, which includes a table for 'Global status' and a list of 'Failover services'.

Names	Status
Global status	
Service running	inactive
Node status	inactive
Ping node group status	unknown
Individual ping node status:	
IP: 127.0.0.1	ok
Failover services:	
iSCSI	on
NFS	off

At the bottom of the interface, there is a message: "This is TRIAL version, 60 day(s) left for evaluation, Data Storage Software V6 - All rights reserved".

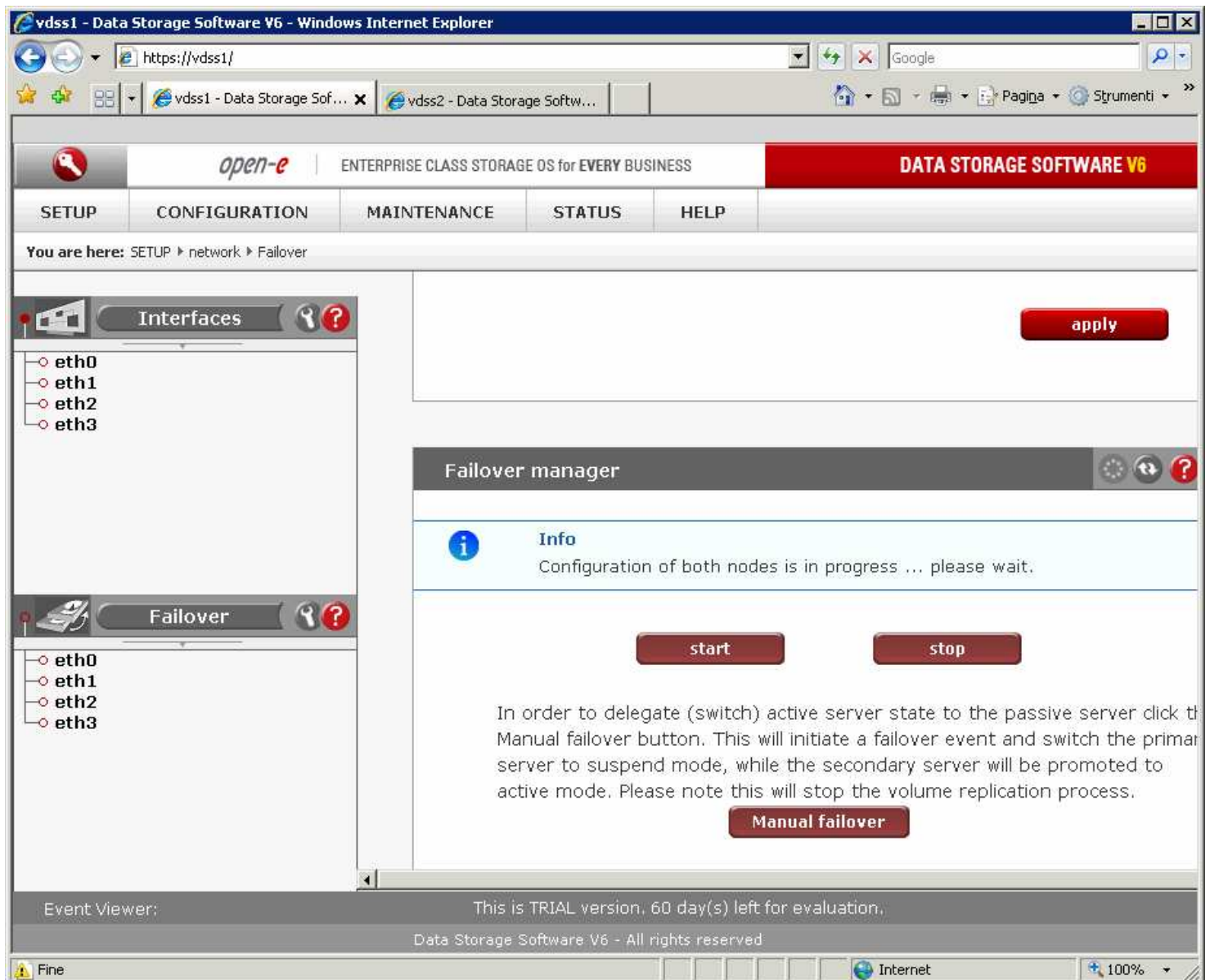
Controllare il servizio di Failover dello storage Primario VDSS1 sia avviato e inattivo

Menu: **SETUP -> network -> Failover ->** nel riquadro **Failover Status** controllare che **Failover services: iSCSI** sia **OK** e **Global Status: Service running** sia **inactive**



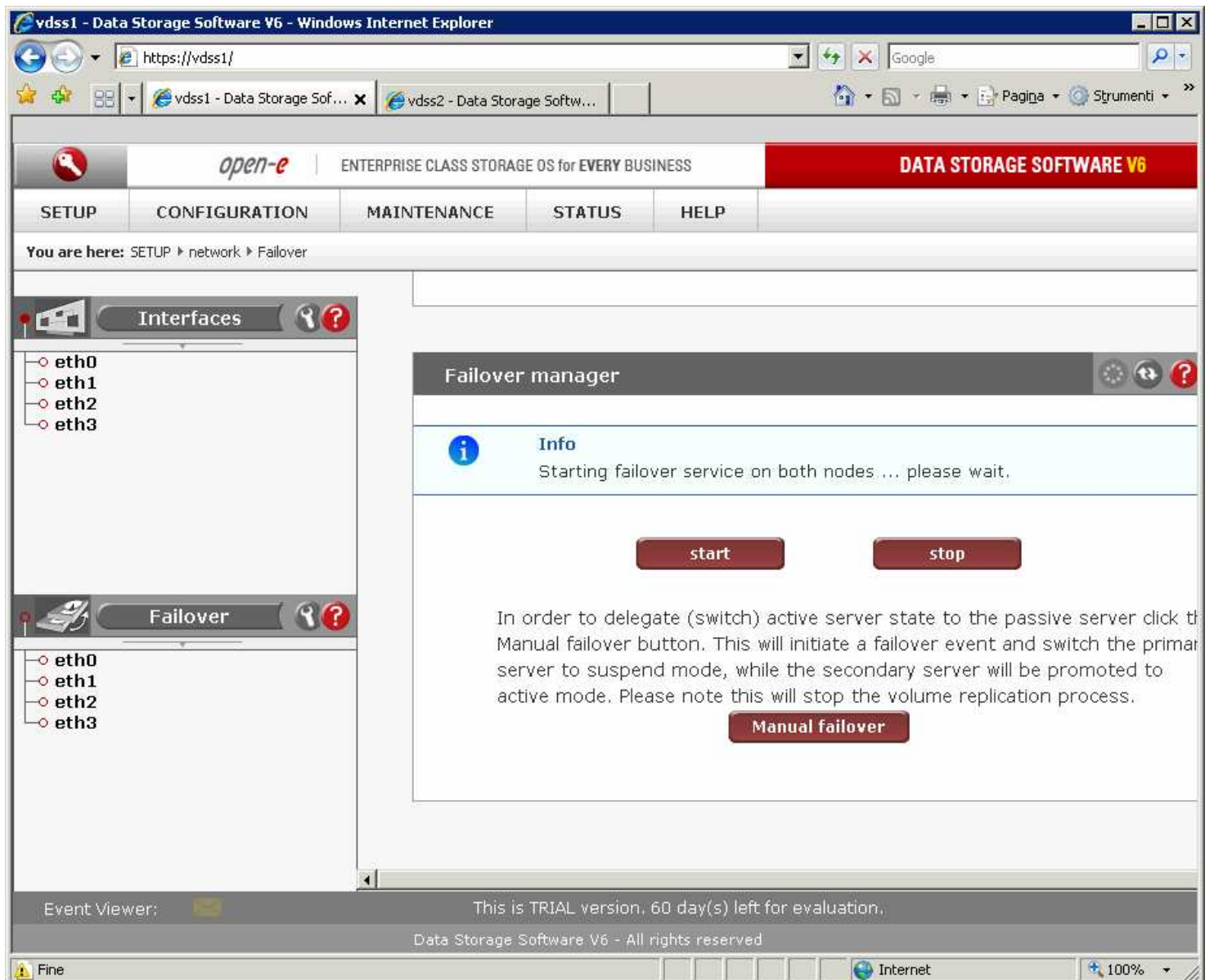
Avviare il servizio di Failover dallo storage Primario VDSS1

Menu: **SETUP** -> **network** -> **Failover** -> nel riquadro **Failover manager** premere il tasto **start**



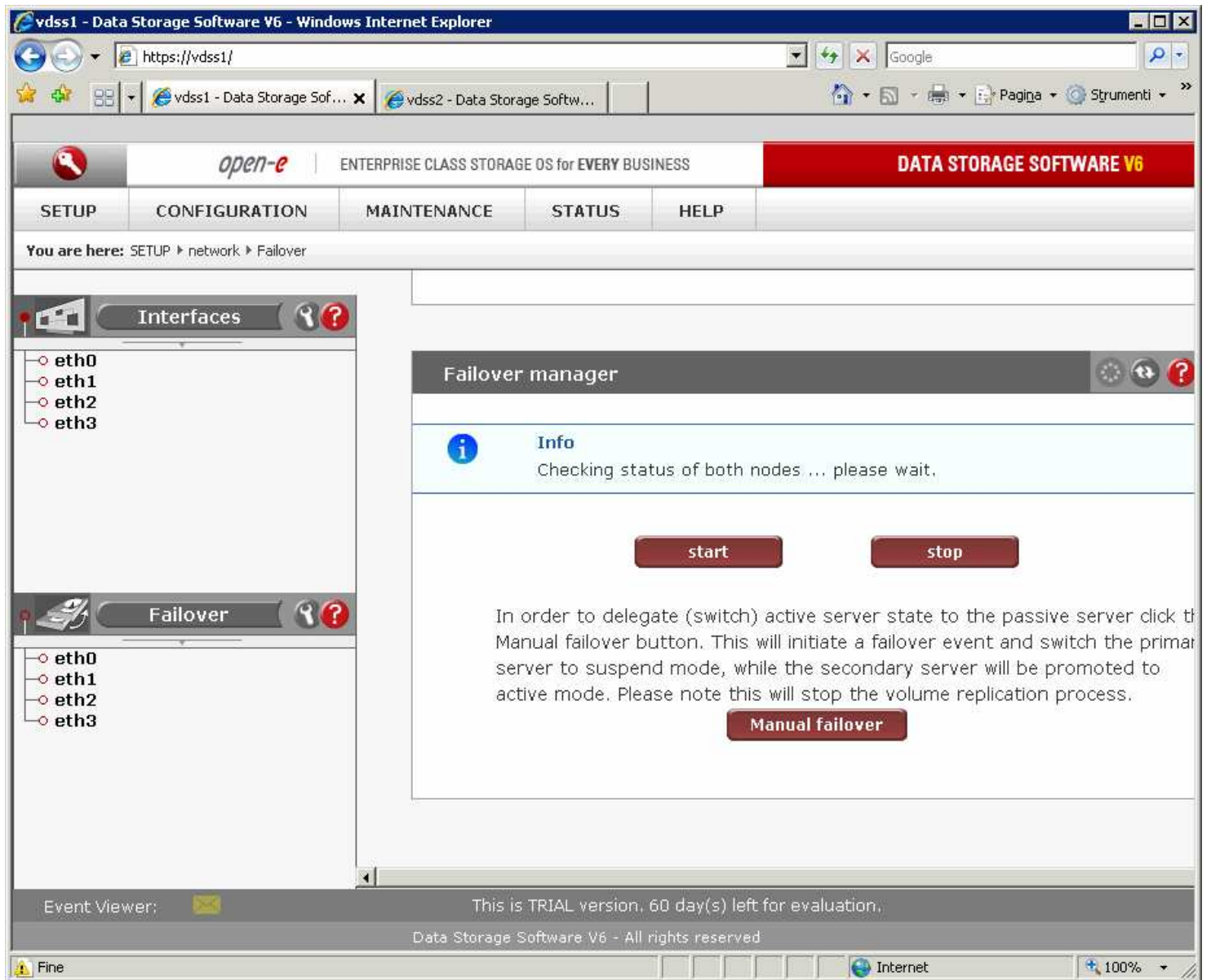
Controllo Prima fase Avvio del servizio di Failover dallo storage Primario VDSS1

Menu: **SETUP -> network -> Failover -> nel riquadro Failover manager**



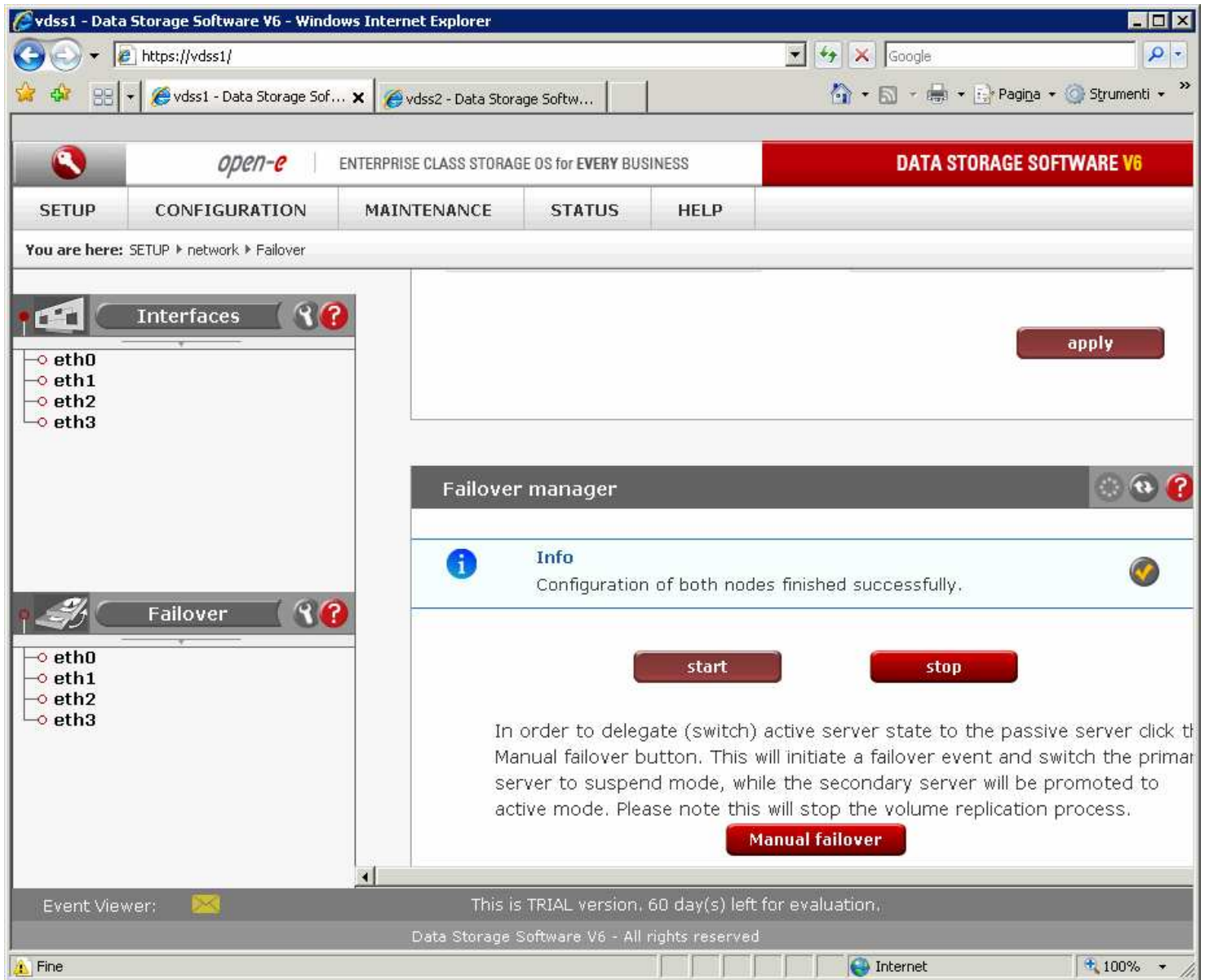
Controllo Seconda fase Avvio del servizio di Failover dallo storage Primario VDSS1

Menu: **SETUP** -> **network** -> **Failover** -> nel riquadro **Failover manager**



Controllo Terza fase Avvio del servizio di Failover dallo storage Primario VDSS1

Menu: **SETUP** -> **network** -> **Failover** -> nel riquadro **Failover manager**



Controllo Avviamento del servizio di Failover dallo storage Primario VDSS1

Menu: **SETUP -> network -> Failover -> nel riquadro Failover manager**

Firefox

vdss1 - Data Storage Software V6 vdss2 - Data Storage Software V6

vdss1 https://vdss1/

open-e ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS DATA STORAGE SOFTWARE V6

SETUP CONFIGURATION MAINTENANCE STATUS HELP

You are here: SETUP > network > Failover

Interfaces

- eth0
- eth1
- eth2
- eth3

Failover

- eth0
- eth1
- eth2
- eth3

Failover status

Names	Status
Global status	
Service running	ok
Node status	primary/active
Ping node group status	ok
Individual ping node status:	
IP: 127.0.0.1	ok
Failover services:	
iSCSI	on
NFS	off
Communication via:	
eth2	ok
eth0	ok
eth1	ok
Task status	
[iSCSI] mirror	running
Connection:	Connected
Source info:	
Logical volume:	lv0000
Consistency:	Consistent
Destination info:	
Logical volume:	lv0000
Consistency:	Consistent
IP address:	200.0.0.2

Event Viewer:

This is TRIAL version. 60 day(s) left for evaluation.

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Controllo sullo stato di funzionamento del servizio di Failover dallo storage Primario VDSS1

Menu: **SETUP -> network -> Failover -> nel riquadro Failover status -> Node status:** deve essere **primary/active**

Firefox

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vdss2 https://vdss2/

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SETUP CONFIGURATION MAINTENANCE STATUS HELP

You are here: SETUP > network > Failover

Interfaces

- eth0
- eth1
- eth2
- eth3

Failover

- eth0
- eth1
- eth2
- eth3

Failover status

Names	Status
Global status	
Service running	ok
Node status	secondary/passive
Ping node group status	ok
Individual ping node status:	
IP: 127.0.0.1	ok
Failover services:	
iSCSI	on
NFS	off
Communication via:	
eth2	ok
eth0	ok
eth1	ok
Task status	
[iSCSI] mirror_reverse	stopped

Failover configuration

Info
While a failover is turned on, you cannot make changes to its configuration.

Enable Failover functionality
Network connection mode:

Event Viewer: This is TRIAL version, 60 day(s) left for evaluation.
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Controllo sullo stato di funzionamento del servizio di Failover dallo storage Secondario VDSS2

Menu: **SETUP -> network -> Failover ->** nel riquadro **Failover status -> Node status:** deve essere **secondary/passive**

PROCEDURA DI SPEGNIMENTO

The screenshot displays the web interface of the open-e Data Storage Software V6. The browser window shows the URL `https://vdss1/`. The interface includes a navigation menu with options: **SETUP**, **CONFIGURATION**, **MAINTENANCE**, **STATUS**, and **HELP**. The current page is titled "Failover manager" and shows a status message: "Info Service is stopping...". Below this message are two buttons: "start" and "stop". A "Manual failover" button is also present. The interface also features a sidebar with "Interfaces" and "Failover" sections, each listing network interfaces: eth0, eth1, eth2, and eth3. At the bottom of the interface, a trial notice states: "This is TRIAL version, 60 day(s) left for evaluation." The browser's status bar shows "Internet" and "100%" zoom.

Prima di procedere allo spegnimento dei 2 storage in Failover, accertarsi di avere effettuato lo Shutdown degli Host, successivamente interrompere il servizio di Failover tramite interfaccia Web del **VDSS1**

Menu: **SETUP** -> **network** -> **Failover** -> nel riquadro **Failover manager**: Premere il tasto **stop** e confermare

Firefox

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vdss1 https://vdss1/

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SETUP CONFIGURATION MAINTENANCE STATUS HELP

You are here: SETUP > network > Failover

Interfaces

- eth0
- eth1
- eth2
- eth3

Failover

- eth0
- eth1
- eth2
- eth3

Failover status

Names	Status
Global status	
Service running	inactive
Node status	inactive
Ping node group status	unknown
Individual ping node status:	
IP: 127.0.0.1	ok
Failover services:	
iSCSI	on
NFS	off
Communication via:	
eth2	unknown
eth0	unknown
eth1	unknown
Task status	
[iSCSI] mirror	running
Connection:	Connected
Source info:	
Logical volume:	lv0000
Consistency:	Consistent
Destination info:	
Logical volume:	lv0000
Consistency:	Consistent
IP address:	200.0.0.2

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Controllo sullo stato di funzionamento del servizio di Failover dallo storage Primario VDSS1

Menu: **SETUP -> network -> Failover ->** nel riquadro **Failover status -> Globe status e Node status:** devono essere **inactive**

Firefox

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vdss2 https://vdss2/

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SETUP CONFIGURATION MAINTENANCE STATUS HELP

You are here: MAINTENANCE ▶ shutdown

shutdown

- connections
- snapshot
- backup ▶
- restore
- antivirus
- miscellaneous
- software update

System shutdown

restart

Create schedule for restart

Comment:

Monday Saturday
 Tuesday Sunday
 Wednesday
 Thursday
 Friday

Start :

Every week
 Every even week
 Every odd week

apply

Schedules for restart

i Info
No schedules found.

System shutdown

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Procedere con lo spegnimento dello storage **Secondario VDSS2**

Menu: **MAINTENANCE -> shutdown ->** scorrere la pagina fino al riquadro **System shutdown**

Firefox

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vdss2 https://vdss2/

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SETUP CONFIGURATION MAINTENANCE STATUS HELP

You are here: MAINTENANCE > shutdown

Every week
 Every even week
 Every odd week

apply

Schedules for restart

i **Info**
No schedules found.

System shutdown

Press the button to shutdown the system.

shutdown

Create schedule for shutdown

Comment:

Monday Saturday
 Tuesday Sunday
 Wednesday
 Thursday
 Friday

Start :

Every week
 Every even week
 Every odd week

apply

Event Viewer: This is TRIAL version. 60 day(s) left for evaluation.
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Shutdown dello storage **Secondario VDSS2**

Riquadro: **System shutdown**-> Premere il tasto **shutdown**

The screenshot shows the web interface of 'open-e DATA STORAGE SOFTWARE V6'. The navigation menu includes 'SETUP', 'CONFIGURATION', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'MAINTENANCE' menu is expanded to show 'shutdown', 'connections', 'snapshot', 'backup', 'restore', 'antivirus', 'miscellaneous', and 'software update'. The 'shutdown' option is selected, leading to a 'System shutdown' section with a 'restart' button. Below this is a 'Create schedule for restart' section with checkboxes for days of the week, a 'Start' time selector, and radio buttons for 'Every week', 'Every even week', and 'Every odd week', with an 'apply' button. Further down is a 'Schedules for restart' section and a 'System shutdown' section with a 'shutdown' button. The footer contains 'Event Viewer: [envelope icon]', 'This is TRIAL version. 60 day(s) left for evaluation.', and 'Data Storage Software V6 - All rights reserved'.

Procedere con lo spegnimento dello storage **Secondario VDSS1**

Menu: **MAINTENANCE -> shutdown ->** scorrere la pagina fino al riquadro **System shutdown**

Firefox

vdss1 - Data Storage Software V6 vdss2 - Data Storage Software V6

vdss1 https://vdss1/

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SETUP CONFIGURATION MAINTENANCE STATUS HELP

You are here: MAINTENANCE > shutdown

Every even week
 Every odd week

apply

Schedules for restart [Settings] [Refresh] [Help]

Info
No schedules found.

System shutdown [Settings] [Refresh] [Help]

Press the button to shutdown the system.

shutdown

Create schedule for shutdown [Settings] [Refresh] [Help]

Comment:

Monday Saturday
 Tuesday Sunday
 Wednesday
 Thursday
 Friday

Start :

Every week
 Every even week
 Every odd week

apply

Event Viewer: This is TRIAL version. 60 day(s) left for evaluation.
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Shutdown dello storage **Secondario VDSS1**

Riquadro: **System shutdown**-> Premere il tasto **shutdown**