

Guide to Transfer and Restore API Functions - Monitor the Transfer Session

Transfer and Restore API Functions

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Introduction

When you monitor the transfer session, you check the status of the transfer session. Use the same process for both the `root` and transfer sessions.



Note:

In this example, the following statements are true:

- `remote.example.com` and `local.example.com` represent the remote server and the local server.
- You logged in to the local server with the `cpsess#####` security token.
- The `example` account owns `example.com`, and you want to transfer it from the remote server to the local server.
- The `example.com` domain contains 123,456,789 bytes.
- You want to transfer the `package1` package from the remote server to the local server.
- `luggage12345` represents the `root` password for the remote server.

Determine the state of the transfer session

To determine the state of a transfer session, use the WHM API 1 [get_transfer_session_state](#) function.

Select the tab below that corresponds to the method by which you wish to call the function:

```
https://hostname.example.com:2087/cpsess#####/json-api/get_transfer_session_state?api.version=1&transfer_session_id=exampleservercopya20140206192428NtyW
```

The function will respond with one of the following states:

- TRANSFER_PENDING
- TRANSFER_INPROGRESS
- RESTORE_PENDING
- RESTORE_INPROGRESS
- PENDING
- COMPLETED
- FAILED

In the following example, the transfer session is in progress:

```
{  "data": {    "state_name": "TRANSFER_INPROGRESS"  },  "metadata": {    "version": 1,    "reason": "OK",    "result": "1",    "command": "get_transfer_session_state"  }}
```

Review the master log

Transfer and Restore

About Transfer and Restore APIs

- *The Standardized Hooks system triggers scripts or applications whenever a specific action is performed in cPanel & WHM.*
- *This functionality is useful for developers and system administrators.*

Compatible with:

- cPanel & WHM 11.44+

APIs:

- [WHM API 1](#)

Related Documentation

Review the master log for the transfer session with the WHM API 1 [fetch_transfer_session_log](#) function.

Select the tab below that corresponds to the method by which you wish to call the function:

```
https://hostname.example.com:2087/cpsess#####/json-api
/fetch_transfer_session_log?api.
version=1&transfer_session_id=vm5docscpanelcopya20140224163412
sylG&logfile=master.log
```

The following example shows the contents of a log file:

```
{
  "data": {
    "log":

    "{ \"pid\": \"14358\", \"contents\": { \"action\": \"start\", \"
    child_number\": 0, \"type\": \"control\" } } \n { \"pid\": \"14358\", \"
    contents\": { \"msg\": \"copyacct\", \"action\": \"initiator\", \"
    child_number\": 0, \"type\": \"control\" } } \n { \"pid\": \"14358\", \"
    contents\": { \"msg\": \"1.6\", \"action\": \"version\", \"
    child_number\": 0, \"type\": \"control\" } } \n { \"pid\": \"14358\", \"
    contents\": { \"msg\": \"3\", \"action\": \"queue_count\", \"
    queue\": \"TRANSFER\", \"child_number\": 0, \"type\": \"control\" } }
    \n { \"pid\": \"14358\", \"contents\": { \"msg\": \"3\", \"action\": \"
    queue_count\", \"queue\": \"RESTORE\", \"child_number\": 0, \"
    type\": \"control\" } } \n { \"pid\": \"14358\", \"contents\": { \"msg\":
    \"vm5.docs.cpanel.net\", \"action\": \"remotehost\", \"
    child_number\": 0, \"type\": \"control\" } } \n { \"pid\": \"14360\", \"
    contents\": { \"item_type\": \"AccountRemoteRoot\", \"item\": \"
    fredfred\", \"action\": \"start\", \"queue\": \"TRANSFER\", \"
    item_name\": \"Account\", \"child_number\": 1, \"type\": \"
    control\" } } \n { \"pid\": \"14360\", \"contents\": { \"msg\": \"item-
    TRANSFER_AccountRemoteRoot_fredfred\", \"item_type\": \"
    AccountRemoteRoot\", \"item\": \"fredfred\", \"item_name\": \"
    Account\", \"action\": \"process-item\", \"queue\": \"TRANSFER\",
    \"child_number\": 1, \"logfile\": \"item-
    TRANSFER_AccountRemoteRoot_fredfred\" } } \n { \"pid\": \"14361\", \"
    contents\": { \"item_type\": \"
    AccountRemoteRoot\", \"item\": \"colin\", \"action\": \"start\", \"
    queue\": \"TRANSFER\", \"item_name\": \"Account\", \"
    child_number\": 2, \"type\": \"control\" } } \n { \"pid\": \"14361\", \"
    contents\": { \"msg\": \"item-TRANSFER_AccountRemoteRoot_colin\",
    \"item_type\": \"AccountRemoteRoot\", \"item\": \"colin\", \"
    item_name\": \"Account\", \"action\": \"process-item\", \"queue\":
    \"TRANSFER\", \"child_number\": 2, \"logfile\": \"item-
    TRANSFER_AccountRemoteRoot_colin\" } } \n { \"pid\": \"14362\", \"
    contents\": { \"item_type\": \"
    AccountRemoteRoot\", \"item\": \"stacy\", \"action\": \"start\", \"
    queue\": \"TRANSFER\", \"item_name\": \"Account\", \"
    child_number\": 3, \"type\": \"control\" } } \n { \"pid\": \"14362\", \"
    contents\": { \"msg\": \"item-TRANSFER_AccountRemoteRoot_stacy\",
    \"item_type\": \"AccountRemoteRoot\", \"item\": \"stacy\", \"
    item_name\": \"Account\", \"action\": \"process-item\", \"queue\":
    \"TRANSFER\", \"child_number\": 3, \"logfile\": \"item-
    TRANSFER_AccountRemoteRoot_stacy\" } } \n { \"pid\": \"14362\", \"
    contents\": { \"msg\": { \"warnings\": 0, \"
    dangerous_items\": 0, \"contents\": { \"dangerous_items\": null, \"
    altered_items\": null }, \"skipped_items\": 0, \"altered_items\": 0,
    \"message\": null }, \"item_type\": \"AccountRemoteRoot\", \"
    item\": \"stacy\", \"item_name\": \"Account\", \"action\": \"
    success-item\", \"queue\": \"TRANSFER\", \"child_number\": 3, \"
    logfile\": \"item-TRANSFER_AccountRemoteRoot_stacy\" } } \n { \"pid\":
    \"14361\", \"contents\": { \"msg\": { \"
    warnings\": 0, \"dangerous_items\": 0, \"contents\": { \"
    dangerous_items\": null, \"altered_items\": null }, \"
```

- [WHM API 1 Functions - abort_transfer_session](#) — This function aborts an active transfer session.
- [WHM API 1 Functions - analyze_transfer_session_remote](#) — This function checks the remote server's credentials, which a transfer session uses to connect.
- [WHM API 1 Functions - remote_basic_credentials_check](#) — This function checks the SSH credentials on the remote server.
- [WHM API 1 Functions - restore_modules_summary](#) — This function lists backup modules and their descriptions.
- [WHM API 1 Functions - delete_account_archives](#) — This function removes a cPanel user account's archives.

```
skipped_items\":0,\"altered_items\":0,\"message\":null},\"
item_type\":\\\"AccountRemoteRoot\\\",\\\"item\\\":\\\"colin\\\",\\\"
item_name\\\":\\\"Account\\\",\\\"action\\\":\\\"success-item\\\",\\\"queue\\\":
\\\"TRANSFER\\\",\\\"child_number\\\":2,\"logfile\\\":\\\"item-
TRANSFER_AccountRemoteRoot_colin\\\",\\\"type\\\":\\\"control\\\"}\\n{\\\"
pid\\\":\\\"14363\\\",\\\"contents\\\":{\\\"item_type\\\":\\\"
AccountRemoteRoot\\\",\\\"item\\\":\\\"stacy\\\",\\\"action\\\":\\\"start\\\",\\\"
queue\\\":\\\"RESTORE\\\",\\\"item_name\\\":\\\"Account\\\",\\\"
child_number\\\":1},\\\"type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14363\\\",\\\"
contents\\\":{\\\"msg\\\":\\\"item-RESTORE_AccountRemoteRoot_stacy\\\",
\\\"item_type\\\":\\\"AccountRemoteRoot\\\",\\\"item\\\":\\\"stacy\\\",\\\"
item_name\\\":\\\"Account\\\",\\\"action\\\":\\\"process-item\\\",\\\"queue\\\":
\\\"RESTORE\\\",\\\"child_number\\\":1,\"logfile\\\":\\\"item-
RESTORE_AccountRemoteRoot_stacy\\\",\\\"type\\\":\\\"control\\\"}\\n{\\\"
pid\\\":\\\"14365\\\",\\\"contents\\\":{\\\"item_type\\\":\\\"
AccountRemoteRoot\\\",\\\"item\\\":\\\"colin\\\",\\\"action\\\":\\\"start\\\",\\\"
queue\\\":\\\"RESTORE\\\",\\\"item_name\\\":\\\"Account\\\",\\\"
child_number\\\":2},\\\"type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14365\\\",\\\"
contents\\\":{\\\"msg\\\":\\\"item-RESTORE_AccountRemoteRoot_colin\\\",
\\\"item_type\\\":\\\"AccountRemoteRoot\\\",\\\"item\\\":\\\"colin\\\",\\\"
item_name\\\":\\\"Account\\\",\\\"action\\\":\\\"process-item\\\",\\\"queue\\\":
\\\"RESTORE\\\",\\\"child_number\\\":2,\"logfile\\\":\\\"item-
RESTORE_AccountRemoteRoot_colin\\\",\\\"type\\\":\\\"control\\\"}\\n{\\\"
pid\\\":\\\"14360\\\",\\\"contents\\\":{\\\"msg\\\":{\\\"warnings\\\":0,\"
dangerous_items\\\":0,\"contents\\\":{\\\"dangerous_items\\\":null,\"
altered_items\\\":null},\\\"skipped_items\\\":0,\"altered_items\\\":0,
\\\"message\\\":null},\\\"item_type\\\":\\\"AccountRemoteRoot\\\",\\\"
item\\\":\\\"fredfred\\\",\\\"item_name\\\":\\\"Account\\\",\\\"action\\\":\\\"
success-item\\\",\\\"queue\\\":\\\"TRANSFER\\\",\\\"child_number\\\":1,\"
logfile\\\":\\\"item-TRANSFER_AccountRemoteRoot_fredfred\\\",\\\"
type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14360\\\",\\\"contents\\\":{\\\"
action\\\":\\\"complete\\\",\\\"queue\\\":\\\"TRANSFER\\\",\\\"child_number\\\":
1},\\\"type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14362\\\",\\\"contents\\\":{\\\"
action\\\":\\\"complete\\\",\\\"queue\\\":\\\"TRANSFER\\\",\\\"child_number\\\":
3},\\\"type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14361\\\",\\\"contents\\\":{\\\"
action\\\":\\\"complete\\\",\\\"queue\\\":\\\"TRANSFER\\\",\\\"child_number\\\":
2},\\\"type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14363\\\",\\\"contents\\\":{\\\"
msg\\\":{\\\"warnings\\\":2,\"dangerous_items\\\":0,\"contents\\\":{\\\"
dangerous_items\\\":[],\\\"altered_items\\\":[]},\\\"skipped_items\\\":
10,\"altered_items\\\":0,\"message\\\":null},\\\"item_type\\\":\\\"
AccountRemoteRoot\\\",\\\"item\\\":\\\"stacy\\\",\\\"item_name\\\":\\\"
Account\\\",\\\"action\\\":\\\"success-item\\\",\\\"queue\\\":\\\"RESTORE\\\",\\\"
child_number\\\":1,\"logfile\\\":\\\"item-
RESTORE_AccountRemoteRoot_stacy\\\",\\\"type\\\":\\\"control\\\"}\\n{\\\"
pid\\\":\\\"14363\\\",\\\"contents\\\":{\\\"item_type\\\":\\\"
AccountRemoteRoot\\\",\\\"item\\\":\\\"fredfred\\\",\\\"action\\\":\\\"
start\\\",\\\"queue\\\":\\\"RESTORE\\\",\\\"item_name\\\":\\\"Account\\\",\\\"
child_number\\\":1},\\\"type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14363\\\",\\\"
contents\\\":{\\\"msg\\\":\\\"item-
RESTORE_AccountRemoteRoot_fredfred\\\",\\\"item_type\\\":\\\"
AccountRemoteRoot\\\",\\\"item\\\":\\\"fredfred\\\",\\\"item_name\\\":\\\"
Account\\\",\\\"action\\\":\\\"process-item\\\",\\\"queue\\\":\\\"RESTORE\\\",\\\"
child_number\\\":1,\"logfile\\\":\\\"item-
RESTORE_AccountRemoteRoot_fredfred\\\",\\\"type\\\":\\\"control\\\"}\\n
{\\\"pid\\\":\\\"14365\\\",\\\"contents\\\":{\\\"msg\\\":{\\\"warnings\\\":4,\"
dangerous_items\\\":1,\"contents\\\":{\\\"dangerous_items\\\":[[[\\\"
Mysql\\\",\\\"_restore_mysql\\\",104],\\\"MySQL:
Skipping grants for these MySQL databases: colin_%. These
databases
don't exist in the
archive.\\\",null]],\\\"altered_items\\\":[[[\\\"Mysql\\\",\\\"
_update_dbname\\\",437],\\\"mySQL
database \\u201ccolin_testdatabase\\u201d restored as
\\u201ctestdatabase\\u201d\\\",[\\\"Rename\\\",\\\"\\scripts5\\
/rename_mysql_db\\\",{\\\"new\\\":\\\"testdatabase\\\",\\\"orig\\\":\\\"
colin_testdatabase\\\"}]]],[\\\"Mysql\\\",\\\"_update_dbuser_name\\\",
348],\\\"mySQL
user \\u201ccolin\\u201d restored as
\\u201ccolin\\u201d\\\",[\\\"Rename\\\",\\\"\\scripts5\\
/rename_mysql_user\\\",{\\\"new\\\":\\\"colin\\\",\\\"orig\\\":\\\"
colin\\\"}]]],\\\"skipped_items\\\":10,\"altered_items\\\":1,\"
```

```

message\":null},\"item_type\":\\\"AccountRemoteRoot\\\",\\\"item\\\":
\\\"colin\\\",\\\"item_name\\\":\\\"Account\\\",\\\"action\\\":\\\"success-
item\\\",\\\"queue\\\":\\\"RESTORE\\\",\\\"child_number\\\":2,\\\"logfile\\\":\\\"
item-RESTORE_AccountRemoteRoot_colin\\\",\\\"type\\\":\\\"control\\\"
\\n{\\\"pid\\\":\\\"14363\\\",\\\"contents\\\":{\\\"msg\\\":{\\\"warnings\\\":2,\\\"
dangerous_items\\\":0,\\\"contents\\\":{\\\"dangerous_items\\\":[],\\\"
altered_items\\\":[]},\\\"skipped_items\\\":11,\\\"altered_items\\\":0,
\\\"message\\\":null},\\\"item_type\\\":\\\"AccountRemoteRoot\\\",\\\"
item\\\":\\\"fredfred\\\",\\\"item_name\\\":\\\"Account\\\",\\\"action\\\":\\\"
success-item\\\",\\\"queue\\\":\\\"RESTORE\\\",\\\"child_number\\\":1,\\\"
logfile\\\":\\\"item-RESTORE_AccountRemoteRoot_fredfred\\\",\\\"
type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14363\\\",\\\"contents\\\":{\\\"
action\\\":\\\"complete\\\",\\\"queue\\\":\\\"RESTORE\\\",\\\"child_number\\\":
1},\\\"type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14365\\\",\\\"contents\\\":{\\\"
action\\\":\\\"complete\\\",\\\"queue\\\":\\\"RESTORE\\\",\\\"child_number\\\":
2},\\\"type\\\":\\\"control\\\"}\\n{\\\"pid\\\":\\\"14358\\\",\\\"contents\\\":{\\\"
action\\\":\\\"complete\\\",\\\"child_number\\\":0},\\\"type\\\":\\\"
control\\\"}\\n\"
  },
  \"metadata\": {
    \"version\": 1,
    \"reason\": \"OK\",
    \"result\": \"1\",
    \"command\": \"fetch_transfer_session_log\"
  }
}

```

Each log file contains the following information in a [line-delimited JSON](#) format:

Key	Type	Description	Possible values	Example
pid	<i>integer</i>	The process ID under which the command in the log entry ran.	An integer value.	14538
indent	<i>integer</i>	The level of indentation to display.	A valid positive integer.	1
type	<i>string</i>	The type of log file entry.	<ul style="list-style-type: none"> • out • warn • success • failure • control 	control
partial	<i>Boolean</i>	We do not currently use this key.	0 is the only possible value.	0
contents	<i>hash</i>	A hash of transfer or restore session information.	This hash contains the action, child_number, dangerous_items, item, item_name, item_type, local_item, logfile, message, msg, queue, skipped_items, and warnings keys.	
action	<i>string</i>	The action for the system to execute. The log file contains this key in the content hash.	A valid string.	start-item
child_number	<i>integer</i>	The number of child processes in the transfer or restore process. The log file contains this key in the content hash.	A positive integer.	1

d a n g e r o u s _ i t e m s	<i>integer</i>	The number of items in the transferred or restored account that the system flagged as potentially dangerous. The log file contains this key in the <code>content hash</code> .	A positive integer.	1
i t e m	<i>string</i>	The name of the account to restore or transfer. The log file contains this key in the <code>content hash</code> .	A string value.	cpotech
i t e m _ n a m e	<i>string</i>	The name of the item to transfer or restore. The log file contains this key in the <code>content hash</code> .	A string value.	Account
i t e m _ t y p e	<i>string</i>	The specific item to transfer or restore. The log file contains this key in the <code>content hash</code> .	A string value.	cpotech
l o c a l _ i t e m	<i>string</i>	The item to restore locally. The log file contains this key in the <code>content hash</code> .	A string value.	AccountLocal
l o g f i l e	<i>string</i>	The absolute filepath for the log file. The log file contains this key in the <code>content hash</code> .	A valid absolute filepath.	item-RESTORE_AccountLocal_cpotech
m e s s a g e	<i>string</i>	A message about the transfer or restore process. The log file contains this key in the <code>content hash</code> .	A string value.	null
m s g	<i>string</i>	Additional information about the transfer or restore process. The log file contains this key in the <code>content hash</code> .	A string value.	null
q u e r y	<i>string</i>	The process that the system performed on the account. The log file contains this key in the <code>content hash</code> .	<ul style="list-style-type: none"> • TRANSFER • RESTORE 	RESTORE

s k i p p e d _ i t e m s	<i>integer</i>	The items in the account that the transfer or restore process skipped. The log file contains this key in the content hash.	A positive integer.	1
w a r n i n g s	<i>integer</i>	The number of warnings that the system returned during the transfer or restore process. The log file contains this key in the content hash.	A positive integer.	2

Create a script to parse this log file to determine the progress of the transfer or restore operation.