【静默安装】configToolAllCommands 响应文件问题

客户在静默安装 RAC 12.1.0.2 的时候有如下的输出：

```
Successfully Setup Software.
As install user, execute the following script to complete the configuration.
        1. /oracle/app/12.1.0/grid/cfgtoollogs/configToolAllCommands RESPONSE_FILE=<response_file>

        Note:
        1. This script must be run on the same host from where installer was run.
        2. This script needs a small password properties file for configuration assistants that require
passwords (refer to install guide documentation).
```

不知道怎么回事，小麦苗多次静默安装 RAC 并没有这个输出，所以这个响应文件的内容还真不知道是什么，于是去官网搜索了一下，现记录如下。

静默安装执行到 ./runInstaller -silent -responseFile /home/grid/grid_xywj.rsp -ignorePrereq 后有如下输出：

```
grid@HQNHL-ALHR-R01:/source/grid> ./runInstaller -silent -responseFile /home/grid/grid_xywj.rsp
-ignorePrereq
Starting Oracle Universal Installer...

Checking Temp space: must be greater than 415 MB.   Actual 4635 MB    Passed
Checking swap space: must be greater than 150 MB.   Actual 32767 MB    Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2016-11-22_01-58-47PM. Please
wait ...grid@HQNHL-ALHR-R01:/source/grid> [WARNING] [INS-30011] The SYS password entered does not
conform to the Oracle recommended standards.
   CAUSE: Oracle recommends that the password entered should be at least 8 characters in length, contain
at least 1 uppercase character, 1 lower case character and 1 digit [0-9].
   ACTION: Provide a password that conforms to the Oracle recommended standards.
[WARNING] [INS-30011] The ASMSNMP password entered does not conform to the Oracle recommended standards.
   CAUSE: Oracle recommends that the password entered should be at least 8 characters in length, contain
at least 1 uppercase character, 1 lower case character and 1 digit [0-9].
   ACTION: Provide a password that conforms to the Oracle recommended standards.
You can find the log of this install session at:
 /oracle/app/oraInventory/logs/installActions2016-11-22_01-58-47PM.log
timed out waiting for input: auto-logout
HQNHL-ALHR-R01:/home/grid # cat
The installation of Oracle Grid Infrastructure 12c was successful.
Please check '/oracle/app/oraInventory/logs/silentInstall2016-11-22_01-58-47PM.log' for more details.

As a root user, execute the following script(s):
        1. /oracle/app/oraInventory/orainstRoot.sh
        2. /oracle/app/12.1.0/grid/root.sh

Execute /oracle/app/oraInventory/orainstRoot.sh on the following nodes:
[HQNHL-ALHR-R01, HQNHL-ALHR-R02]
Execute /oracle/app/12.1.0/grid/root.sh on the following nodes:
[HQNHL-ALHR-R01, HQNHL-ALHR-R02]

Run the script on the local node first. After successful completion, you can start the script in parallel
on all other nodes.

Successfully Setup Software.
As install user, execute the following script to complete the configuration.
        1. /oracle/app/12.1.0/grid/cfgtoollogs/configToolAllCommands RESPONSE_FILE=<response_file>

        Note:
```

> 1. This script must be run on the same host from where installer was run.
> 2. This script needs a small password properties file for configuration assistants that require passwords (refer to install guide documentation).

客户询问这里的 RESPONSE_FILE=<response_file> 应该写哪些内容。
在 Oracle 的官方文档中搜索到如下的内容：
http://docs.oracle.com/database/121/CWLIN/app_nonint.htm#CWLIN379

C.5 Postinstallation Configuration Using a Response File
Use the following sections to create and run a response file configuration after installing Oracle software.

C.5.1 About the Postinstallation Configuration File
When you run a silent or response file installation, you provide information about your servers in a response file that you otherwise provide manually during a graphical user interface installation. However, the response file does not contain passwords for user accounts that configuration assistants require after software installation is complete. The configuration assistants are started with a script called configToolAllCommands. You can run this script in response file mode by creating and using a password response file. The script uses the passwords to run the configuration tools in succession to complete configuration.

If you keep the password file to use for clone installations, then Oracle strongly recommends that you store it in a secure location. In addition, if you have to stop an installation to fix an error, you can run the configuration assistants using configToolAllCommands and a password response file.

The configToolAllCommands password response file consists of the following syntax options:

internal_component_name is the name of the component that the configuration assistant configures
variable_name is the name of the configuration file variable
value is the desired value to use for configuration
The command syntax is as follows:

internal_component_name|variable_name=value

For example:

oracle.assistants.asm|S_ASMPASSWORD=welcome
Oracle strongly recommends that you maintain security with a password response file:

Permissions on the response file should be set to 600.

The owner of the response file should be the installation owner user, with the group set to the central inventory (oraInventory) group.

C.5.2 Running Postinstallation Configuration Using a Response File

To run configuration assistants with the configToolAllCommands script:

Create a response file using the syntax filename.properties. For example:

```
$ touch cfgrsp.properties
```

Open the file with a text editor, and cut and paste the password template, modifying as needed.

Example C-1 Password response file for Oracle Grid Infrastructure installation for a cluster

Oracle Grid Infrastructure requires passwords for Oracle Automatic Storage Management Configuration Assistant (ASMCA), and for Intelligent Platform Management Interface Configuration Assistant (IPMICA) if you have a BMC card and you want to enable this feature. Provide the following response file:

```
oracle.assistants.asm|S_ASMPASSWORD=password
oracle.assistants.asm|S_ASMMONITORPASSWORD=password
oracle.crs|S_BMCPASSWORD=password
```

If you do not have a BMC card, or you do not want to enable IPMI, then leave the S_BMCPASSWORD input field blank.

Note:

If you are upgrading Oracle ASM 11g Release 1 or earlier releases, then you only need to provide the input field fororacle.assistants.asm|S_ASMMONITORPASSWORD.

Example C-2 Password response file for Oracle Real Application Clusters

Oracle Database configuration requires the SYS, SYSTEM, and DBSNMP passwords for use with Database Configuration Assistant (DBCA). Providing a string for the S_ASMSNMPPASSWORD variable is necessary only if only if the database is using Oracle ASM for storage. Also, providing a string for the S_PDBADMINPASSWORD variable is necessary only if you create a multitenant container database (CDB) with one or more pluggable databases (PDBs). Also, if you selected to configure Oracle Enterprise Manager Cloud Control, then you must provide the password for the Oracle software installation owner for the S_EMADMINPASSWORD variable, similar to the following example, where the phrase password represents the password string:

```
oracle.assistants.server|S_SYSPASSWORD=password
oracle.assistants.server|S_SYSTEMPASSWORD=password
oracle.assistants.server|S_DBSNMPPASSWORD=password
oracle.assistants.server|S_PDBADMINPASSWORD=password
oracle.assistants.server|S_EMADMINPASSWORD=password
oracle.assistants.server|S_ASMSNMPPASSWORD=password
```

If you do not want to enable Oracle Enterprise Manager for Oracle ASM, then leave those password fields blank.

```
    Change permissions to secure the file. For example:


    $ ls -al cfgrsp.properties
    -rw------- 1 oracle oinstall 0 Apr 30 17:30 cfgrsp
    Change directory to $ORACLE_HOME/cfgtoollogs, and run the configuration script using
the following syntax:


    configToolAllCommands RESPONSE_FILE=/path/name.properties


    for example:


    $ ./configToolAllCommands RESPONSE_FILE=/home/oracle/cfgrsp.properties
```

根据文档内容，安装 GRID 可以配置如下的信息：

```
oracle.assistants.asm|S_ASMPASSWORD=password
oracle.assistants.asm|S_ASMMONITORPASSWORD=password
oracle.crs|S_BMCPASSWORD=password
```

安装 DB 可以配置如下的信息：

```
oracle.assistants.server|S_SYSPASSWORD=password
oracle.assistants.server|S_SYSTEMPASSWORD=password
oracle.assistants.server|S_DBSNMPPASSWORD=password
oracle.assistants.server|S_PDBADMINPASSWORD=password
oracle.assistants.server|S_EMADMINPASSWORD=password
oracle.assistants.server|S_ASMSNMPPASSWORD=password
```

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