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| |  |  |  | | --- | --- | --- | | **How to Modify SCAN Setting or SCAN Listener Port after Installation (Doc ID 972500.1)** | [To Bottom](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=193721901729020&parent=DOCUMENT&sourceId=276434.1&id=972500.1&_afrWindowMode=0&_adf.ctrl-state=7368web0_53)  [To Bottom](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=193721901729020&parent=DOCUMENT&sourceId=276434.1&id=972500.1&_afrWindowMode=0&_adf.ctrl-state=7368web0_53) |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **In this Document**   |  |  | | --- | --- | |  | [Goal](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=193721901729020&parent=DOCUMENT&sourceId=276434.1&id=972500.1&_afrWindowMode=0&_adf.ctrl-state=7368web0_53#GOAL) | |  | [Solution](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=193721901729020&parent=DOCUMENT&sourceId=276434.1&id=972500.1&_afrWindowMode=0&_adf.ctrl-state=7368web0_53#FIX) | |  |  |  | | --- | --- | |  | [A. To update SCAN setting](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=193721901729020&parent=DOCUMENT&sourceId=276434.1&id=972500.1&_afrWindowMode=0&_adf.ctrl-state=7368web0_53#aref_section21) | |  | [B. To modify SCAN listener port](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=193721901729020&parent=DOCUMENT&sourceId=276434.1&id=972500.1&_afrWindowMode=0&_adf.ctrl-state=7368web0_53#aref_section22) | |  |  |  | | --- | --- | |  | [References](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=193721901729020&parent=DOCUMENT&sourceId=276434.1&id=972500.1&_afrWindowMode=0&_adf.ctrl-state=7368web0_53#REF) |         **Applies to:**  Oracle Database - Enterprise Edition - Version 11.2.0.1 and later  Information in this document applies to any platform.  **Goal**  This note provides steps to update 11gR2 Grid Infrastructure (CRS) Single Client Access Name (SCAN) setting or SCAN listener port setting if it's not setup properly or if it's changed after setup.  Note:  1. This procedure does not apply when GNS is being used  2. Even though clustername and SCAN name is set to the same during 'typical' installation, changing SCAN name will not affect clustername as change of clustername requires deconfigure and reconfigure of the entire cluster.    **Solution**    **A. To update SCAN setting**  1. As per documentation "*Oracle Grid Infrastructure Installation Guide*", Oracle strongly recommend to configure SCAN name in either DNS or GNS as /etc/hosts file can only resolve to one IP address.  SCAN IP must be in same subnet as public and VIP. If the new SCAN IP will be in different subnet, refer to [note 276434.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=972500.1&id=276434.1) to change nodeapps/network resource first.  1a. If you intend to use /etc/hosts for SCAN name resolution, the same and only entry for SCAN name must exist on all nodes.  1b. If you intend to use DNS for SCAN name resolution, remove entries for SCAN name from /etc/hosts on all nodes, and make sure nslookup returns good result on all nodes, for example:    $ nslookup pay-scan.us.oracle.com  ..  Name:   pay-scan.us.oracle.com  Address: 10.4.0.201  Name:   pay-scan.us.oracle.com  Address: 10.4.0.202  Name:   pay-scan.us.oracle.com  Address: 10.4.0.203    2. Once #1a or #1b is configured properly, execute the following to modify:  If name resolution for SCAN is being switched from local hosts file to DNS, be sure to remove SCAN name in local hosts file on all nodes prior to execute below commands.  **2.1. To modify SCAN name or SCAN VIP addresses:**    2.1.1. As grid user stop resources:  $ $GRID\_HOME/bin/srvctl stop scan\_listener  $ $GRID\_HOME/bin/srvctl stop scan    2.1.2. As root user modify SCAN:  # $GRID\_HOME/bin/srvctl modify scan -n pay-scan.us.oracle.com  ### For 11.2.0.1 only, if you intend to change SCAN name, due to bug 9603829, execute the following:  # $GRID\_HOME/bin/crsctl modify type ora.scan\_vip.type -attr "ATTRIBUTE=SCAN\_NAME,DEFAULT\_VALUE=<new SCAN name>"  ### Example:  # $GRID\_HOME/bin/crsctl modify type ora.scan\_vip.type -attr "ATTRIBUTE=SCAN\_NAME,DEFAULT\_VALUE=pay-scan.us.oracle.com"  Once SCAN name is changed, update database init.ora/spfile parameter remote\_listener to the new one.    2.1.3. As grid user modify and start resources:  $ $GRID\_HOME/bin/srvctl modify scan\_listener -u  $ $GRID\_HOME/bin/srvctl start scan\_listener    2.1.4. To confirm the change  $ $GRID\_HOME/bin/srvctl config scan  SCAN name: pay-scan.us.oracle.com, Network: 1/10.4.0.0/255.255.255.0/eth1  SCAN VIP name: scan1, IP: /10.4.0.201/120.0.0.201  SCAN VIP name: scan2, IP: /10.4.0.202/120.0.0.202  SCAN VIP name: scan3, IP: /10.4.0.203/120.0.0.203  $ $GRID\_HOME/bin/srvctl config scan\_listener  SCAN Listener LISTENER\_SCAN1 exists. Port: TCP:1521  SCAN Listener LISTENER\_SCAN2 exists. Port: TCP:1521  SCAN Listener LISTENER\_SCAN3 exists. Port: TCP:1521    **2.2. To change SCAN to be on second network:**  By default, SCAN will be configured on first public network (ora.net1.network), however in multiple public network environment, SCAN can run on second or other network.  There's no option to modify SCAN to use non-first network, to change to second or other network, scan\_listener and scan resources need to be removed and added back.  In this example, we'll move SCAN from net1 to net2    $ $GRID\_HOME/bin/srvctl config network  Network exists: 1/10.1.0.0/255.255.255.128/eth3, type static  Network exists: 2/10.1.1.0/255.255.255.128/eth4, type static    2.2.1. As grid user stop resources and remove scan\_listener:  $ $GRID\_HOME/bin/srvctl stop scan\_listener$ $GRID\_HOME/bin/srvctl stop scan  $ $GRID\_HOME/bin/srvctl remove scan\_listener -f    2.2.2. As root user remove and add SCAN:  # $GRID\_HOME/bin/srvctl remove scan -f  #$GRID\_HOME/bin/srvctl add scan -n <scan-name> -k 2  Once SCAN name is changed, update database init.ora/spfile parameter remote\_listener to the new one.    2.2.3. As grid user add scan\_listener and start resources:  $ $GRID\_HOME/bin/srvctl add scan\_listener-p <port>  $ $GRID\_HOME/bin/srvctl start scan\_listener    **B. To modify SCAN listener port**  As grid user:  1. Modify SCAN listener port:    **$GRID\_HOME/bin/srvctl modify scan\_listener -p <new-SCAN-port>**  Update 11gR2 database init.ora parameter: alter system set remote\_listener='<SCAN-name>:<new-port-number>' scope=both;      2. Restart SCAN listener so the new port will be effective:  $GRID\_HOME/bin/srvctl stop scan\_listener  $GRID\_HOME/bin/srvctl start scan\_listener    3. Confirm the change:    $GRID\_HOME/bin/srvctl config scan\_listener  References  NOTE:975457.1 - How to Troubleshoot Connectivity Issue with 11gR2 SCAN Name  NOTE:276434.1 - How to Modify Public Network Information including VIP in Oracle Clusterware  NOTE:887471.1 - PRVF-4664 PRVF-4657: Found inconsistent name resolution entries for SCAN name  NOTE:887522.1 - Grid Infrastructure Single Client Access Name (SCAN) Explained  NOTE:359277.1 - Changing Default Listener Port Number | |