611361 - Hostnames of SAP ABAP Platform servers

Version	12	**Type**	SAP Note
Language	English	**Master Language**	English
Priority	Recommendations / Additional Info	**Category**	Consulting
Release Status	Released for Customer	**Released On**	10.09.2018
Component	BC-NET (Network Infrastructure)		

Please find the original document at **https://launchpad.support.sap.com/#/notes/ 611361**

Symptom

The use of hostnames that are too long or contain illegal characters may result in undetermined errors

Other Terms

hostname, host name, nodename, node name, computername, computer name, network identification, etc/hosts, DNS, domain name, FQDN

Reason and Prerequisites

SAP systems require a specific format of hostnames to be observed

Solution

The naming of hosts running SAP software has to be done according to general standards (RFCs see http://ietf.org/rfc) and some SAP specific restrictions.

General rule for hostnames according to RFCs 952, 1101, 1123, 1178:

Alphanumerical string of alpha characters [A-Z] and [a-z] and digits [0-9] and the hyphen (or minus) character "-". Although the newer RFCs permit hostnames beginning with digits we recommend hostnames to begin with an alpha character. The period character "." is only allowed to delimit components of domain names like (sapc11.sap.com).

SAP specific restrictions:

For hostnames of hosts running SAP ABAP Platform servers you have to obey the following additional restrictions:

- Maximum length of the hostname:
    - up to 13 characters for current releases
    - up to 8 characters for SAP Kernel rel. up to 4.5

- The hostname command must only return the host name and not the Fully Qualified Domain Name (FQDN). I.e. if the FQDN is "ls3001.acme.com" the required output of hostname will be "ls3001".
- Due to a problem in the installation routine, the host name of computers running Microsoft Windows must not begin with S-[0-9] (e.g. hostname S-12345 is not allowed). Please see SAP note 998631 for further information.

- When using Oracle on Windows see note 849423 for restrictions.

- Hostnames must be considered "case sensitive". That means hostnames shall be used in the same case (upper or lower) in all SAP configurations as well as

in the network configuration (DNS or etc/hosts). You must ensure consistent name resolving of the hostname from hostname to IP address and back from the IP address to the the same hostname (case sensitive match). See also note 129997.

- On multihomed hosts the hostname must be assigned to the IP address of the primary network interface. See also note 21151.

Other Components

Component	Description
BC-CST	Client/Server Technology

This document refers to

SAP Note/KBA	Title
962955	Use of virtual or logical TCP/IP host names
849423	Length of hostname for ABAP installation on Windows/Oracle
8307	Changing host name on R/3 host: What do you do?
654982	URL requirements due to Internet standards
492208	INST: SAP Web AS 6.20 Installation on UNIX
407107	INST: SAP Web AS 6.10 Installation on UNIX
21151	Multiple Network adapters in SAP Servers
1624061	Use of virtual TCP/IP host names on IBM i (OS/400)
1590515	SAP Software and Oracle Exadata
1570309	Computers with non-english characters in hostname
1503149	Long hostname support for SAP systems on HP-UX
1318789	hostname 8 character limitation on HP-UX with Oracle
129997	Hostname and IP address lookup
1274207	long hostnames/nodenames on HP-UX
1273678	TREX Indexing: error while activating XI Message indexing
124562	Hostname resolution problems (DNS timeouts)

1135491	RSSTAT98 - Inconsistent host name when setting up SAPWLSERV

This document is referenced by

SAP Note/KBA	Title
2074402	Hostname is longer than 13 characters when installing Diagnostics Agent - Solution Manager
2718300	Physical and Virtual hostname length limitations
2497800	SSO fails with underscore character in hostname
1590515	SAP Software and Oracle Exadata
962955	Use of virtual or logical TCP/IP host names
2002167	Red Hat Enterprise Linux 7.x: Installation and Upgrade
2847437	Older Versions: SAP Software and Oracle Exadata
1624061	Use of virtual TCP/IP host names on IBM i (OS/400)
2309342	SUSE Linux Enterprise High Availability Extension on AWS for SAP HANA
2694118	Red Hat Enterprise Linux HA Add-On on Azure
1503149	Long hostname support for SAP systems on HP-UX
2513384	SUSE Linux Enterprise Server for SAP Applications on Azure
2290084	SAP Software and Oracle Database Appliance Version 12.1
1760737	SAP Software and Oracle Database Appliance 2.x
1996481	Using correct hostnames for Oracle Exadata Database Nodes
654982	URL requirements due to Internet standards
1570309	Computers with non-english characters in hostname
1135491	RSSTAT98 - Inconsistent host name when setting up SAPWLSERV
1273678	TREX Indexing: error while activating XI Message indexing
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8307	Changing host name on R/3 host: What do you do?
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407107	INST: SAP Web AS 6.10 Installation on UNIX
849423	Length of hostname for ABAP installation on Windows/Oracle

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