System Health Check

Initial Checks

Role	Check	Comments
VPN	Connectiv	Make sure the VPN is running OK, and that all systems are accessible by SSH and RDP.
Web Application	Connectivity	Connect via the IP address of the load balancer (if redundant, connect via the shared IP address). Login as sysadmin, switch to a user with admin rights, and check a few views: Agent Home Mini Client Supervisor Execute a report
Test Call	Functiona lity	Make a test call. Check that it is received by the system and that audio is heard. If possible: Make a call to an ACD queue which is forwarded to an agent. Check the agent's Agent Home indicates the incoming call and that the status of the call changes from ringing to busy (this indicates, the webserver is communicating with the platform UDP listener cluster). Check that two way audio is heard.
Test Chat / Whatsapp	Functiona lity	Make a test chat. Make sure it is distributed to an agent, and that the agent can reply.
Virus Scanners	Activity	No virus scanner should be installed on the telephony server. Virus scanners can have negative impact on live telephony systems and should not scan in and outgoing traffic in the network, or the filesystems used by jtel software.

Component and Role Checks

Role	Check	Comments	
------	-------	----------	--

ALL	Uptime and Errors	Use:
LINUX		uptime
		to check for how long the system has been up.
		If it has been restarted, then check the following for why:
		less /var/log/messages
		You may need to go back to an older file than the current log file to see why.
ALL LINUX	Disk Space	Use:
LINUX		df -h
		to make sure the disk is not full.
		Particularly on the database systems make sure this space will not run out soon.
		Note: on some systems, /var/lib/mysql may be mounted separately.
		Use: mount to verify how it is mounted or cat /etc/fstab
ALL LINUX	CPU Load	Use both of the following to identify CPU load problems:
LINOX		top
		sar (historical)
		sar -u 1 (real-time)
ALL LINUX	Time Sync	Use the following commands to make sure the time sync is OK:
LINOX		ntpq -p (older systems)
		chronyc sources (newer systems)
		timedatectl
ALL LINUX	File System writable	Sometimes, if a file system error has occurred, linux will either:
LINUX		 Not mount it at all (this is easy to see / find) Mount it read-only (this is not so obvious)
		Try writing to a file:
		cat << EOFF > /root/test.txt
		Test EOFF
		cat /root/test.txt
ALL LINUX	Expected processes running?	ps -ef less
WINDOWS	Time Sync	Check the ntp status using the monitor application.

WINDOWS	CPU Load	Check the task manager to make sure no process is running very high CPU.
		Note: on a loaded system 50% or more CPU is perfectly fine, as long as it is either:
		8-Server SIP and RTP Stack (Aculab)
DB	DB Master-Master	Make sure replication is running:
	DB Slaves	SHOW SLAVE STATUS\G
		Make sure MySQL is not crashing:
		less /var/log/mysqld.log
LB	Redundant LB	Check the status of the pcs cluster with:
		pcs status
		Make sure one of the load balancers has the shared IP address, and that all resources are started.
LB	haproxy Stats and Control Page	Open haproxy (on both load balancers in a redundant system) using the following url:
		http:// <load-balancer>:7777</load-balancer>
		Make sure the expected resources are present and all up:
		 Expected database servers (in a redundant solution) are up and running. Only one load balancer is serving connections. Only one of the DB masters has active connections.
STORE	Redundant Store	Check the status of DRBD with:
		drbdadm status jtelshared
		Make sure it is primary/primary (for older installations) or primary secondary (for newer installations).
		Check the status of the pcs cluster with:
		pcs status
		Make sure all of the resources are started:
		 Mount of /srv/jtel/shared is started on one of the STORE servers Samba is started on one of the STORE servers The shared IP is started on one of the STORE servers

STORE	Non-Redundant Store	Check the status of the samba service:
		smbstatus
		ps -ef grep samba
		Make sure it is running.
STORE	Space	Check the available space on the store with
		df -h
TEL	8-Server started	startup.cmd batch file window present?
		giHal.exe batch file window present and running?
		giAcu.exe (SIP Registrations) present and running (if required)?
		8Server.exe present and running?
TEL	8-Server health	Check errors / warnings for excessive error messages, such as ODBC errors or .r5 files not found errors.
		ODBC errors can indicate a database problem (for example, a mysql crash), or a syntax error in a sql procedure.
		File not found errors (particularly .r5 files) can indicate a storage problem.
TEL	8-Server stuck initialising	If 8-Server says "Initialising" on all lines, and does not exit this status for a long time, then there may be connectivity problems to the storage.
		This is best mitigated by making sure the samba credentials are correct, and that all "jtel" users have the same credentials.
TEL	Telephony Server not Receiving Calls	Start a wireshark trace for SIP using this capture filter:
	Calls	port 5060 or ip[6:2] & 0x1fff != 0
		If SIP messages are being received, then the problem might be a firewall rule injection by a domain policy. Check the firewall rules to make sure the required ports are opened.
TEL	PBX Connector	Telephony connector started and running?
		Messages being received from the PBX?

TEL	Platform UDP Listener	Check the Platform UDP listener is started
		Does the cluster contain all expected members? For example:
		2021-03-18 04:02:11,263 INFO ClusterSerVice: [acd-chat-2-1]:5701 [jtel-cluster-Z
		Members {size:16, ver:655} [
		Member [acd-chat-2-1]:5701 - d00296a2-b77b-43f4-8f2d-253aa3c73319 this Member [acd-tel1-2]:5701 - 306cc617-98e8-46ba-af76-e7c462a33958
		Member [acd-tel2-1]:5701 - b709eedc-95f3-4011-ab25-3e1c922dfb53 Member [acd-tel2-2]:5701 - 8b954452-b443-4790-9ae9-92339c3c4aaf
		Member [acd-tel1-1]:5701 - 0fclb287-a4cc-4066-9ecf-72445e21b58c
		Member [acd-web2-3]:5701 - ce048053-7bab-4ec6-8739-c50cfd631d5a Member [acd-web2-5]:5701 - 0de0f146-39b9-4a81-8d60-0834cdb1832d
		Member [acd-web2-2]:5701 - 78ded150-4a6c-4360-88b7-a35a39827b52
		Member [acd-web2-4]:5701 - 0e92c204-76b3-4ae5-a63f-f6aa3a289d74 Member [acd-web2-1]:5701 - 565400ae-21f4-4573-8b7f-03f503dc196a
		Member [acd-web2-6]:5701 - baffdaca-8e7a-4b14-93d3-b0add684444d Member [acd-web1-5]:5701 - 64022427-baff-4cf6-a75e-dbe15a8f4cc2
		Member [acd-web1-6]:5701 - 69835d0b-c9d9-42a7-94ed-bfa8785c9b9e
		Member [acd-web1-4]:5701 - 701bf011-4f6e-4349-85eb-7585c0c175f2 Member [acd-web1-1]:5701 - feb66be6-70a5-4a7c-be54-fb0a3aaecf8c
		Member [acd-web1-2]:5701 - ae2935b8-df2e-4f51-b9e9-13e8a4554441
TEL	Disk Space	Use the windows explorer to make sure the disk is not full.
WEB	Webservers	Check each webserver individually using
		http:// <server>:8080/CarrierPortal/sysadmin/login</server>
		Make sure it is possible to login.
		Make sure the logo is visible (if not, this indicates a file share mount error to /home/jtel/shared)
WEB	Certificate	Make sure the certificate is OK by accessing the system via the load-balancer (if necessary, using an alias in your hosts file).
		This is mandatory, for example, for SalesForce integrations.

