DC/OS Co	mponents, System	Com	onents, ar	nd Basic Tr	oubleshooting						
Component	Service Name	Layer	Dependencies	Subcomponent	Description	Impact to Environment  Loss of the adminrouter component will prevent control plane access	Where to begin Check status of the service: systemctl status dcos- adminrouter.service; Check logs of adminrouter from boot to see if there are issues: journalctl -u dcos-adminrouter -b (looking for				
AdminRouter	dcos-adminrouter.service	DC/OS	dcos-master; leader.mesos:5050		Control plane proxy for DC/OS admin and components	(management) to the cluster. Loss of admirrouter on the agents will prevent management via the UI/CLI to agents and will need to be recitified on the local agent itself. Loss of agent from management UI.	exit codes); restart admin router: systemctl restart dcos- adminrouter; Inspect logs for running adminrouter: journalctl -flu dcos-adminrouter				
Exhibitor	dcos-exhibitor.service	DC/OS	Zookeeper		Zookeeper supervisor	Cluster master node communication and quorum voting is conducted via Zookeeper. Monitoring and watching of Zookeeper is accomplished to Exhibitor. Losing Exhibitor is tantamount to losing quality and reliability of the entire cluster.	Verify that Exhibitor is up and operational at: http://emaster-node-ip-addr>: 8181/exhibitor; on a master node, check the Exhibitor logs: journalctl -flu dcos-exhibitor; Check that all masters are in the cluster and serving and one is elected leader-from a master: curl -fsb. http://localhost: 8181/exhibitor/v1/cluster/status  jq .				
Navstar	dcos-navstar.service	DC/OS	Mesos master; inet_gethost; erlang port mapping daemon (epmd)		Networking overlay for DC/OS; manages IPv4 Layer 4 load balancing	Loss of Navstar will impact the internal networking of agents/masters and components within the DC/OS solution/cluster.	Ensure that filesystems on the node with Navstar issues is not full Investigate the logs of navstar: journalctl -flu dcos-navstar				
						Losing or issues with cockroachdb will					
CockRoachDB	dcos-cockroach.service	DC/OS			Distributed SQL database with strongly consistent key-value store.	affect IAM (bouncer) and thusly will create cascade events within the cluster. Logging in and authentication are obvious side-effects.	journalctl -flu dcos- cockroach				
		2000			IAM access control to components and services within DC/OS. Can also be integrated with external	Authenication and control issues within the environment. Mesos and Marathon may also be integrated with bouncer and when bouncer is lost access to these services will not be possible. Requests and interaction with	journalctl -flu dcos-				
Bouncer	dcos-bouncer.service	DC/OS	mesos.master		services like LDAP	adminrouter will also be affected.	bouncer				
Marathon	dcos-marathon.service	DC/OS		Service Marathons	can also manage child- Marathon tasks in the	As a meta-framework in DC/OS, any issue adversly affecting Marathon could potentially affect all tasks (sometimes more than 100os) running on the cluster. Without Marathon there can be substantial degradation in the cluster and loss of service.	Monitor Marathon from the DC/OS UI: click "Services" tab and select				
						Losing masters in the DC/OS cluster is					
Master	dcos-master.service	DC/OS	Zookeeper	cluster agents, tasks, communication, overall cluster	DC/OS distributed systems kernel.	a critical event and can potentially impact the entire cluster and all tasks running on the cluster. Most production clusters have a minimum of 3 master nodes which can sustain the failure of one node.	View the Mesos Master interface directly at: http:// <master-ip-< td=""><td></td><td></td><td></td><td></td></master-ip-<>				
							Check to make sure the slave				
Slave	dcos-mesos-slave.service	DC/OS	Tasks running on agents		DC/OS distributed systems kernel agent.	Loss of an agent within DC/OS may cause the agent to become unregistered with the DC/OS masters. I may also negatively affect the tasks running on the agent but existing tasks, executed by an executor should continue running.	process is running on the agent node. Connect to the mesos-agent UI: http:// <agent-ip-addr>:5051/slave;</agent-ip-addr>				
						·					
Slave Public	dcos-mesos-slave-public.s	s DC/OS	Tasks running on public agents		DC/OS distributed systems kernel agent on public nodes within a cluster	Loss of an agent within DC/OS may cause the agent to become unregistered with the DC/OS masters. I may also negatively affect the tasks running on the agent but existing tasks, executed by an executor should continue running.	of ficep.//sagenc ip addrs.				
							Vou con verify if no b-ti '				
			mesos.master;		Mesos-DNS provides domain name based service	Issues with Mesos-DNS will affect service discovery and the ability for apps to resolve names correctly within	You can verify if name resolution is working within the cluster by performing nslooksups and/or dig @ commands from a master or agent node in the cluster, looking for service names. Additionally, investigate the logs for mesos-ons:				
Mesos-DNS	dcos-mesos-dns.service	DC/OS	/etc/resolv.conf; detect_ip		discovery for tasks running with a DC/OS environment.	the cluster. This may manifest itself as service/app outages.	journalctl -u dcos-mesos- dns -b				

DC/OS Cor	nponents, System	Com	ponents, ar	nd Basic T	roubleshooting						
Component	Service Name	Layer	Dependencies	Subcomponent	Description	Impact to Environment	Where to begin				
Spartan	dcos-spartan.service	DC/OS	mesos-dns		Spartan forwards DNS requests to multiple DNS servers.	Name resolution issues will arise with loss of Spartan.	Investigate the logs for Spartan: journalctl -u dcos-spartan -b				
NTP	ntpd.service	Linux	Linux kernel; ntpd; time servers		Keeps time constant on hosts within an environment.	Time drift is a major disruptor or incident causing issue with DC/OS clusters. Time must be synchronized across the cluster in order for components, masters, and slaves to work correctly.	journalctl -u ntpd.service; ntptime; timedatectl				
Kernel Parameters		Linux	assorted /etc configuration files		Kernel parameters drive how the host operating system runs, responds to needs, and ultimately performs to manage workloads on the system.	Improperly configured Kernel(s) on hosts within a DC/OS cluster can have many negative impacts on running, capacity, and performance.	Systools.				