Telemetry Tool Matrix

Use case	Solution	Tooling Options	How to get/update	Metric	Command	Collection Rate	Tool Category
ALL	All	Recommended	native	all	/proc/cpuinfo	Every restart	Configuration
		/proc	svrinfo github lnk				
		svrinfo	https://github.intel.com/ssgcce/s vrinfo/archive/master.tar.gz				
Reliability	SSD/NMVe Failure	Recommended	native	all	/proc/diskstats	Once a day	Utilization
		/proc					
ALL	All	Recommended	native	all	uname -a	Every restart	Configuration
		uname	svrinfo github lnk				
		svrinfo	https://github.intel.com/ssgcce/s vrinfo/archive/master.tar.gz				
Reliability	Memory Failure	Recommended	sudo yum install mcelog	all	mcelog	Collect log diff every	Reliability
		MCElog	sudo modprobe mce-inject			hour	
			sudo systemctl start mcelog				
Reliability	SSD/NMVe Failure	Recommended	yum install smartmontools	all	smartctl	Once a day	Reliability
		smartmontools					
ALL	All	Recommended	yum install sysstat	user	sar	Every 1-10 min (default	Utilization
		sar				1m)	
				system			
				%memused	sar -r		
				pgpgin/s	sar -B		
				pgpgout/s			
				rxKB/s	sar -N ALL		
				txKB/s			
Infra Efficiency	Power Capping/Any Failure Algorithm	Recommended ipmitools	yum install ipmitool	Airflow	ipmitool sdr	Every 30s-5m (default 1m)	Reliability
				Fan_SYS*_*			
				Volt_VR_DIMM_**			
				Volt_VR_CPU*			
				Temp_Outlet			
				Temp_Inlet			
				Temp_VR_DIMM_**			
				Temp_CPU*			
Infra Efficiency /	Any failure algorithm	Recommended	sudo yum -y install sysstat	instructions	perf stat -e [metric]	Every 1-30 seconds (default 10s)	Performance
Performance		perf		cpu-cycles			
				cpu-clock			
				ора-оюск			

				LLC MBL			
,				misses			
Performance / Security	Workload Co-location	RDT	sudo yum install intel-cmt-cat sudo dnf install intel-cmt-cat	ipc	pqos -T	Every 1-10 seconds (default 1s)	Performance
				numa_foreign			
				numa_miss			
		numastat				1s)	
Performance	Workload Co-location	Recommended	yum install numactl	numa_hit	numastat	Every 1-10 sec (default	Performance
				tx-start			
				tx-conflict			
				tx-commit			
				tx-capacity			
				power/ebergy-ram			
				power/energy-pkg/			
				power/energy-cores/			
				uncore_imc_*/cas_count_wri te/			
				uncore_imc_*/cas_count_rea			
				mem-stores			
				mem-loads			
				intel_cqm/llc_occupancy/			
				LLC-stores			
				LLC-store-misses			
				LLC-loads			
				LLC-load-misses			
				context-switches			