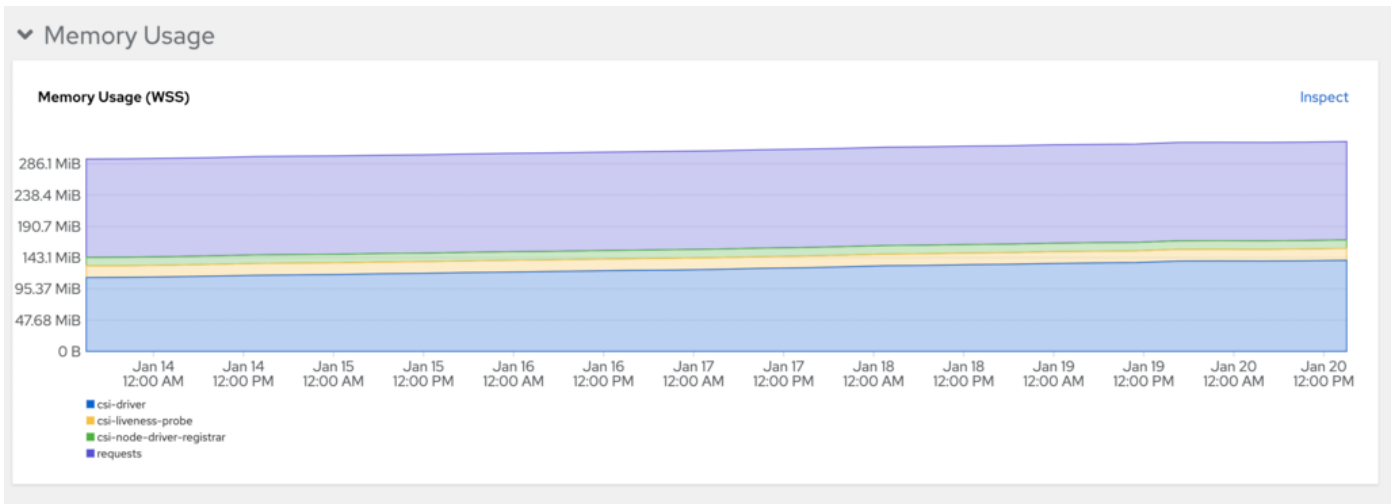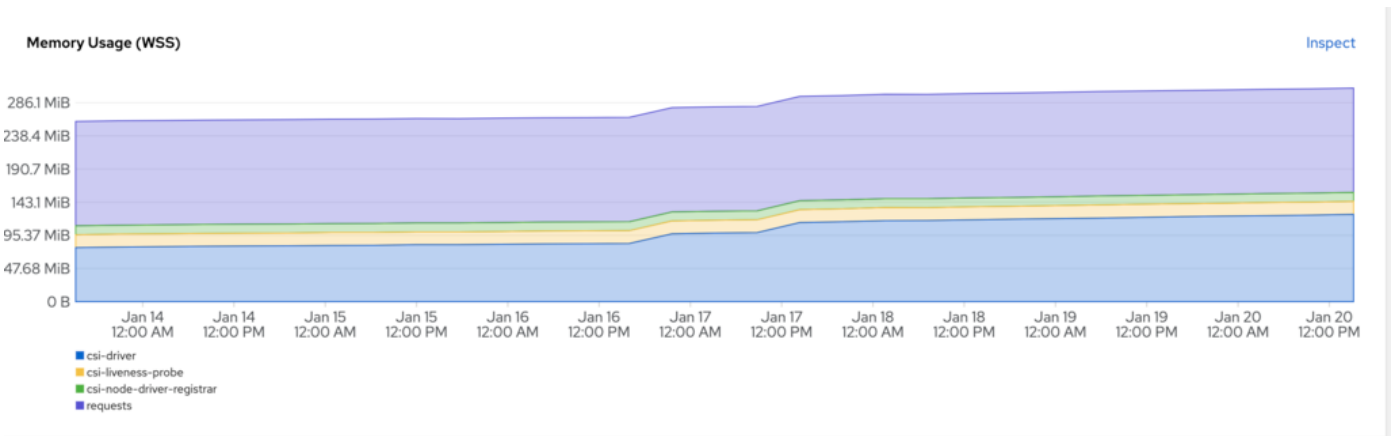# CS Worker Node Memory Utilization Timeline

Based on what we've seen, all nodes show increasing amounts of memory, some seem to fail at varying levels of memory utilization, hung nodes and non-hung nodes have large amounts of memory, some hung nodes have less memory utilized overall than some that are not yet hung.
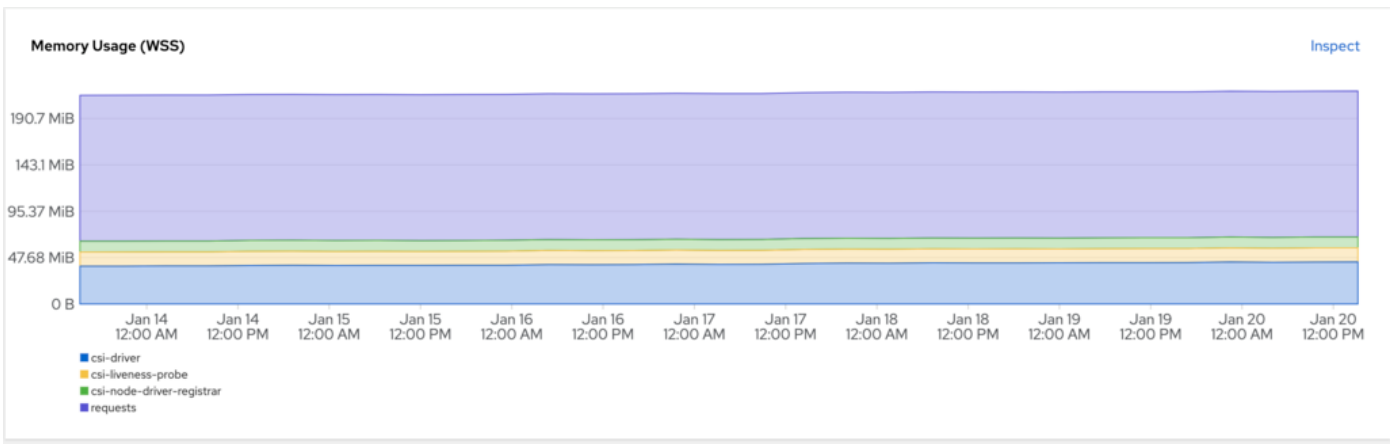
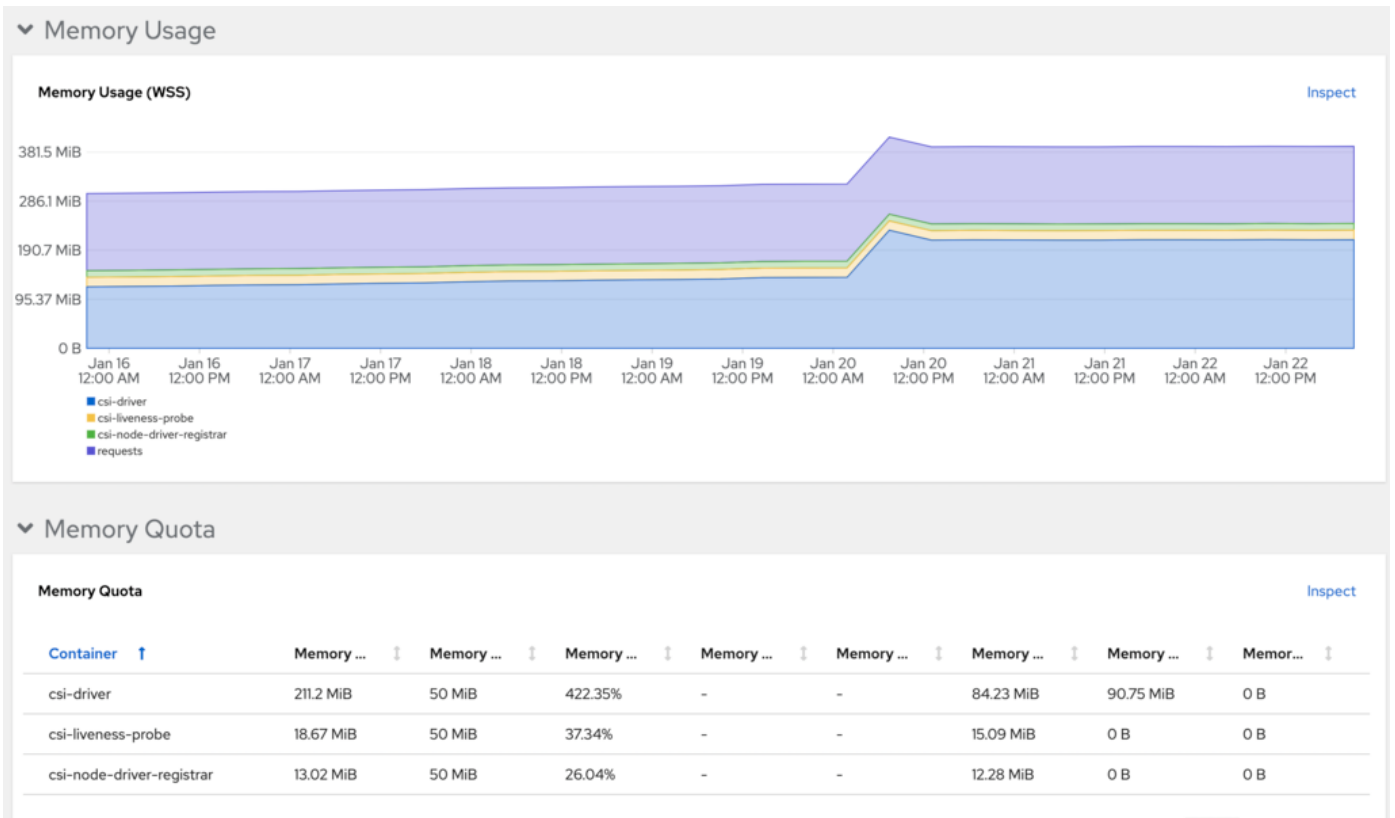3-233 Node Noted Hung 01/20 am m5.2xlarge

5-51 Node Hung 01/19, 01/20 m5.2xlarge

5-107 Node Hung 01/19, 01/20 m5.xlarge

Memory Usage (WSS) — Inspect

190.7 MiB
143.1 MiB
95.37 MiB
47.68 MiB
0 B

Jan 14 12:00 AM | Jan 14 12:00 PM | Jan 15 12:00 AM | Jan 15 12:00 PM | Jan 16 12:00 AM | Jan 16 12:00 PM | Jan 17 12:00 AM | Jan 17 12:00 PM | Jan 18 12:00 AM | Jan 18 12:00 PM | Jan 19 12:00 AM | Jan 19 12:00 PM | Jan 20 12:00 AM | Jan 20 12:00 PM

- csi-driver
- csi-liveness-probe
- csi-node-driver-registrar
- requests

3-213 Not Hung m5.2xlarge

Memory Usage

Memory Usage (WSS) — Inspect

381.5 MiB
286.1 MiB
190.7 MiB
95.37 MiB
0 B

Jan 16 12:00 AM | Jan 16 12:00 PM | Jan 17 12:00 AM | Jan 17 12:00 PM | Jan 18 12:00 AM | Jan 18 12:00 PM | Jan 19 12:00 AM | Jan 19 12:00 PM | Jan 20 12:00 AM | Jan 20 12:00 PM | Jan 21 12:00 AM | Jan 21 12:00 PM | Jan 22 12:00 AM | Jan 22 12:00 PM

- csi-driver
- csi-liveness-probe
- csi-node-driver-registrar
- requests

Memory Quota

Memory Quota — Inspect

Container ↑	Memory ...	Memory ...	Memory ...	Memory ...	Memory ...	Memory ...	Memory ...	Memor...
csi-driver	211.2 MiB	50 MiB	422.35%	-	-	84.23 MiB	90.75 MiB	0 B
csi-liveness-probe	18.67 MiB	50 MiB	37.34%	-	-	15.09 MiB	0 B	0 B
csi-node-driver-registrar	13.02 MiB	50 MiB	26.04%	-	-	12.28 MiB	0 B	0 B

Of the largest memory footprints for the csi driver nodes

5-167 is hung - m5.2xlarge
2-213 is not hung - m5.2xlarge
3-233 is hung - m5.2xlarge
5-51 is hung - m5.2xlarge
1-227 is not hung - m5.2xlarge
1-243 is not hung - m5.2xlarge
3-85 is not hung - m5.2xlarge
1-137 is not hung - m5.2xlarge
5-135 is not hung - m5.2xlarge
1-69 is not hung - m5.xlarge
3-46 is hung - m5.xlarge
5-107 is hung - m5.xlarge

P aws-efs-csi-driver-node-67p2n	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	245.8 MiB	⊕ Jan 4, 2023, 12:52 PM	N ip-10-250-5-167.ec2.internal	⋮
P aws-efs-csi-driver-node-j9mtb	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	244.6 MiB	⊕ Jan 4, 2023, 12:51 PM	N ip-10-250-3-213.ec2.internal	⋮
P aws-efs-csi-driver-node-ghr4k	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	174.6 MiB	⊕ Jan 4, 2023, 12:49 PM	N ip-10-250-3-233.ec2.internal	⋮
P aws-efs-csi-driver-node-jw4xw	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	166.3 MiB	⊕ Jan 4, 2023, 12:51 PM	N ip-10-250-5-51.ec2.internal	⋮
P aws-efs-csi-driver-node-gh9vc	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	165.0 MiB	⊕ Jan 4, 2023, 12:45 PM	N ip-10-250-1-227.ec2.internal	⋮
P aws-efs-csi-driver-node-pvp7b	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	156.1 MiB	⊕ Jan 4, 2023, 12:51 PM	N ip-10-250-1-243.ec2.internal	⋮
P aws-efs-csi-driver-node-9kwhf	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	135.4 MiB	⊕ Jan 4, 2023, 12:50 PM	N ip-10-250-3-85.ec2.internal	⋮
P aws-efs-csi-driver-node-x7xb9	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	130.2 MiB	⊕ Jan 4, 2023, 12:50 PM	N ip-10-250-1-137.ec2.internal	⋮
P aws-efs-csi-driver-node-p4rf2	⟳ Running	3/3	1	DS aws-efs-csi-driver-node	119.8 MiB	⊕ Jan 4, 2023, 12:45 PM	N ip-10-250-5-135.ec2.internal	⋮
P aws-efs-csi-driver-node-f5gmq	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	112.9 MiB	⊕ Jan 4, 2023, 12:50 PM	N ip-10-250-1-69.ec2.internal	⋮
P aws-efs-csi-driver-node-g9th2	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	89.1 MiB	⊕ Jan 4, 2023, 12:50 PM	N ip-10-250-3-46.ec2.internal	⋮
P aws-efs-csi-driver-node-mk8z6	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	71.7 MiB	⊕ Jan 4, 2023, 12:51 PM	N ip-10-250-5-107.ec2.internal	⋮
P aws-efs-csi-driver-node-w7fnw	⟳ Running	3/3	0	DS aws-efs-csi-driver-node	63.3 MiB	⊕ Jan 4, 2023, 12:48 PM	N ip-10-250-5-122.ec2.internal	⋮
P aws-efs-csi-driver-	⟳ Running	3/3	0	DS aws-efs-csi-driver-	60.8 MiB	⊕ Jan 4, 2023,	N ip-10-250-1-	⋮