


Kubernetes Periodic Table

A comprehensive visual guide that demystifies the key building blocks of this powerful container orchestration platform.

Kubernetes Periodic Table


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Infrastructure and Control Plane

Core Components

Configuration and Data Management

Other Elements

Monitoring and Observability

Backup, Restore, and Disaster Recovery

Security and Identity Management

Governance and Compliance

Networking

Stateful Applications and Data Management

Continuous Integration and Deployment

Autoscaling and Load Balancing

Resource Management

Package Management and Configuration

1																	2
No Node																	Sa Special Application
3	4															10	
Op Operator	Cl Cluster															Csi CSI	
11	12															18	
Cp Control Plane	Pd Pod															Pvc Persistent Volume Claim	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Kt Kubernetes	Sv Service	Cfm ConfigMap	St StatefulSet	Ct Container	Nm Node Maintenance	Cb CronJob	Cls CPU Limits	Cma Custom Metrics API	Crv Custom Resource Validation	Ms Metrics Server	Lg Logging	Al Audit Logging	Pe Policy Enforcement	Pm Policy Management	Fw Firewall	Sct Security Context	Crd Custom Resource Definition
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
As API Server	Dp Deployment	Sc Secret	Ds DaemonSet	Sh Scheduler	Cm Custom Metrics	Ru Rolling Update	Mls Memory Limits	Esg External Storage	Pep Policy Enforcement Point	Pms Prometheus	La Log Aggregation	Sm Service Mesh	Is Ingress	Pmo Policy Monitoring	Pr Policy Reporting	Km Key Management	Csd Cluster Service Discovery
55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Et etcd	Rs ReplicaSet	Ig Ingress	Jb Job	Spe StatefulSet	Rp Readiness Probe	Kn Knative	Gp GPU Support	Ac Admission Controller	Aw Authentication Webhook	Gf Grafana	Tr Tracing	Np Network Policy	Dn DNS	Ic Ingress Controller	Im Image Security	Es External Secrets	Vs Volume Snapshot
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Kc Kubelet	Ns Namespace	Pv Persistent Volume	Cj CronJob	Lt Liveness Probe	Lp Liveness Probe	Cbs Cron-based Scheduling	Tm Topology Manager	Caw Custom Admission Webhook	Azw Authorization Webhook	Ev Events	Ot OpenTelemetry	Smp Service Mesh Proxy	Ag API Gateway	Ed External DNS	Ch Caching	Sp Security Policy	Vsc Volume Snapshot Class

91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Ci Continuous Integration	Cd Continuous Deployment	Go GitOps	Cnd Canary Deployment	Bg Blue-Green Deployment	Rud Rolling Update Deployment	Ca Canary Analysis	Goo GitOps Operator	Cat Canary Analysis Tool	Bp Backpressure	Nap Node Auto Provisioning	Hpa Horizontal Pod Autoscaler	Vpa Vertical Pod Autoscaler	Cas Cluster Autoscaler	Lb Load Balancer
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Rq Resource Quota	Rls Resource Limits	Rm Resource Monitoring	Ra Resource Allocation	Pa Pod Affinity	Paa Pod Anti-Affinity	Na Node Affinity	Nsr Node Selector	Tt Taints and Tolerations	Pdb Pod Disruption Budget	Gc Garbage Collection	Hm Helm	Ku Kubernetes	Of Operators Framework	Cs Config Sync

This Kubernetes Periodic Table sheds light on the 120 crucial components that make up the Kubernetes ecosystem.

Whether you're a developer, system administrator, or cloud enthusiast, this handy resource will help you navigate the complex Kubernetes landscape.