

ULB Metrics

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ULB Metrics Reference

ULB Agent Metrics Category

egressmanagementpolicy_customresource_add_event_total

Description: Total number egressmanagementpolicies custom resource add event received

Sample Query: `'sum(egressmanagementpolicy_customresource_add_event_total) by (pod)'`

Labels:

egressmanagementpolicy_customresource_modify_event_total

Description: Total number egressmanagementpolicies custom resource modify event received

Sample Query: `'sum(egressmanagementpolicy_customresource_modify_event_total) by (pod)'`

Labels:

egressmanagementpolicy_customresource_delete_event_total

Description: Total number egressmanagementpolicies custom resource delete event received

Sample Query: `'sum(egressmanagementpolicy_customresource_delete_event_total) by (pod)'`

Labels:

pod_add_event_total

Description: Total number pod add event received

Sample Query: `'sum(pod_add_event_total) by (pod)'`

Labels:

pod_modify_event_total

Description: Total number pod modify event received

Sample Query: `'sum(pod_modify_event_total) by (pod)'`

Labels:

pod_delete_event_total

Description: Total number pod delete event received

Sample Query: `'sum(pod_delete_event_total) by (pod)'`

Labels:

pod_add_event_ignored_total

Description: Total number pod add event ignored

Sample Query: `'sum(pod_add_event_ignored_total) by (pod)'`

Labels:

pod_modify_event_ignored_total

Description: Total number pod modify event ignored

Sample Query: `'sum(pod_modify_event_ignored_total) by (pod)'`

Labels:

pod_delete_event_ignored_total

Description: Total number pod delete event ignored

Sample Query: `'sum(pod_delete_event_ignored_total) by (pod)'`

Labels:

node_add_event_total

Description: Total number node add event received

Sample Query: `'sum(node_add_event_total) by (pod)'`

Labels:

- Label: `component`

  Label Description: The component specifies node event type

  Example: neighbor

node_modify_event_total

Description: Total number node modify event received

Sample Query: `'sum(node_modify_event_total) by (pod)'`

Labels:

- Label: `component`

  Label Description: The component specifies node event type

  Example: neighbor

node_delete_event_total

Description: Total number node delete event received

Sample Query: `'sum(node_delete_event_total) by (pod)'`

Labels:

- Label: `component`

  Label Description: The component specifies node event type

  Example: neighbor

node_add_event_ignored_total

Description: Total number node add event ignored

Sample Query: `'sum(node_add_event_ignored_total) by (pod)'`

Labels:

- Label: `component`

  Label Description: The component specifies node event type

  Example: neighbor

node_modify_event_ignored_total

Description: Total number node modify event ignored

Sample Query: `'sum(node_modify_event_ignored_total) by (pod)'`

Labels:

- Label: `component`

  Label Description: The component specifies node event type

  Example: neighbor

node_delete_event_ignored_total

Description: Total number node delete event ignored

Sample Query: `'sum(node_delete_event_ignored_total) by (pod)'`

Labels:

- Label: `component`

  Label Description: The component specifies node event type

  Example: neighbor

loadbalancer_customresource_add_event_total

Description: Total number load balancer custom resource add event received

Sample Query: `'sum(loadbalancer_customresource_add_event_total) by (pod)'`

Labels:

loadbalancer_customresource_modify_event_total

Description: Total number load balancer custom resource modify event received

Sample Query: `'sum(loadbalancer_customresource_modify_event_total) by (pod)'`

Labels:

loadbalancer_customresource_delete_event_total

Description: Total number load balancer custom resource delete event received

Sample Query: `'sum(loadbalancer_customresource_delete_event_total) by (pod)'`

Labels:

loadbalancer_pod_add_event_total

Description: Total number load balancer pod add event received

Sample Query: `'sum(loadbalancer_pod_add_event_total) by (pod)'`

Labels:

loadbalancer_pod_modify_event_total

Description: Total number load balancer pod modify event received

Sample Query: `'sum(loadbalancer_pod_modify_event_total) by (pod)'`

Labels:

loadbalancer_pod_delete_event_total

Description: Total number load balancer pod delete event received

Sample Query: `'sum(loadbalancer_pod_delete_event_total) by (pod)'`

Labels:

loadbalancer_pod_add_event_ignored_total

Description: Total number load balancer pod add event received ignored

Sample Query: `'sum(loadbalancer_pod_add_event_ignored_total) by (pod)'`

Labels:

loadbalancer_pod_modify_event_ignored_total

Description: Total number load balancer pod modify event received ignored

Sample Query: `'sum(loadbalancer_pod_modify_event_ignored_total) by (pod)'`

Labels:

loadbalancer_pod_delete_event_ignored_total

Description: Total number load balancer pod delete event received ignored

Sample Query: `'sum(loadbalancer_pod_delete_event_ignored_total) by (pod)'`

Labels:

serviceoutboundroute_customresource_add_event_total

Description: Total number service outbound route custom resource add event received

Sample Query: `'sum(serviceoutboundroute_customresource_add_event_total) by (pod)'`

Labels:

serviceoutboundroute_customresource_modify_event_total

Description: Total number service outbound route custom resource modify event received

Sample Query: `'sum(serviceoutboundroute_customresource_modify_event_total) by (pod)'`

Labels:

serviceoutboundroute_customresource_delete_event_total

Description: Total number service outbound route custom resource delete event received

Sample Query: `'sum(serviceoutboundroute_customresource_delete_event_total) by (pod)'`

Labels:

serviceoutboundroute_customresource_add_event_ignored_total

Description: Total number service outbound route custom resource add event received ignored

Sample Query: `'sum(serviceoutboundroute_customresource_add_event_ignored_total) by (pod)'`

Labels:

serviceoutboundroute_customresource_modify_event_ignored_total

Description: Total number service outbound route custom resource modify event received ignored

Sample Query: `'sum(serviceoutboundroute_customresource_modify_event_ignored_total) by (pod)'`

Labels:

serviceoutboundroute_customresource_delete_event_ignored_total

Description: Total number service outbound route custom resource delete event received ignored

Sample Query: `'sum(serviceoutboundroute_customresource_delete_event_ignored_total) by (pod)'`

Labels:

svc_packet_count

Description: Total number of packets per service ip address

Sample Query: `'sum(svc_packet_count) by (svc_ip)'`

Labels:

- Label: `svc_ip`

  Label Description: The service ip address defined in EMP or LB CR

  Example: 120.120.120.30

- Label: `protocol`

  Label Description: The service protocol defined in EMP or LB CR

  Example: TCP, UDP

- Label: `direction`

  Label Description: The direction of the packet

  Example: IN, OUT

- Label: `svc_name`

  Label Description: The name of EMP or LB CR

  Example: emp-tcp-v4

- Label: `pod_ip`

  Label Description: The ip address of the pod

  Example: 10.4.8.113

- Label: `pod_name`

  Label Description: The name of the pod

  Example: udp-client-1

- Label: `pod_port`

  Label Description: The port used by pod to send receive packets

  Example: 55000

svc_byte_count

Description: Total number of bytes per service ip address

Sample Query: `'sum(svc_byte_count) by (pod_ip)'`

Labels:

- Label: `svc_ip`

  Label Description: The service ip address defined in EMP or LB CR

  Example: 120.120.120.30

- Label: `protocol`

Label Description: The service protocol defined in EMP or LB CR

Example: TCP, UDP

- Label: `direction`

  Label Description: The direction of the packet

  Example: IN, OUT

- Label: `svc_name`

  Label Description: The name of EMP or LB CR

  Example: emp-tcp-v4

- Label: `pod_ip`

  Label Description: The ip address of the pod

  Example: 10.4.8.113

- Label: `pod_name`

  Label Description: The name of the pod

  Example: udp-client-1

- Label: `pod_port`

  Label Description: The port used by pod to send receive packets

  Example: 55000

egress_packet_count

Description: Total number egress packet sent

Sample Query: `'sum(egress_packet_count) by (pod_ip)'`

Labels:

- Label: `egress_ip`

  Label Description: The Egress ip address defined in EMP CR

  Example: 120.120.120.30

- Label: `protocol`

  Label Description: The service protocol defined in EMP CR

  Example: TCP, UDP

- Label: `pod_ip`

  Label Description: The ip address of the pod

  Example: 10.4.8.113

- Label: `source_port`

  Label Description: The port used by pod to send receive packets

  Example: 55000

ulb_dp_rx_total

Description: Total packets received for a configured ULB service, classified by service ip, service port, reporting interface, and protocol

Sample Query: `'sum by (app_namespace, resource_name, service_ip, service_port, protocol, ifname, source) (rate(ulb_dp_rx_total[5m]))'`

Labels:

- Label: `app_namespace`

  Label Description: Namespace of the associated ULB Custom resource.

  Example: test-lbs-pods

- Label: `resource_name`

  Label Description: Name of the associated ULB Custom resource.

  Example: example-loadbalancer

- Label: `service_ip`

  Label Description: Service IP configured for the associated ULB Custom resource; dual-stack or multihomed services produce a separate series for each service IP.

  Example: 192.0.2.58

- Label: `service_port`

  Label Description: Service port configured for the associated ULB Custom resource.

  Example: 8080

- Label: `protocol`

  Label Description: Protocol configured for the associated ULB Custom resource. Supported CRD protocol values are UDP, TCP, SCTP, GTPC, GTPU, and PFCP

  Example: udp, tcp, sctp, gtpc, gtpu, pfcp

- Label: `ifname`

  Label Description: Linux interface on which the datapath stats were recorded.

  Example: ens192.1001

- Label: `source`

  Label Description: Packet-source classification based on the Ethernet source MAC: peer when the MAC is not in the ULB cluster-node MAC map, or node when it is.

  Example: peer, node

ulb_dp_session_total

Description: Total new connections or sessions observed by ULB

Sample Query: `'sum by (app_namespace, resource_name, service_ip, service_port, protocol, ifname) (rate(ulb_dp_session_total[5m]))'`

Labels:

- Label: `app_namespace`

  Label Description: Namespace of the associated ULB Custom resource.

  Example: test-lbs-pods

- Label: `resource_name`

  Label Description: Name of the associated ULB Custom resource.

  Example: example-loadbalancer

- Label: `service_ip`

  Label Description: Service IP configured for the associated ULB Custom resource; dual-stack or multihomed services produce a separate series for each service IP.

  Example: 192.0.2.58

- Label: `service_port`

  Label Description: Service port configured for the associated ULB Custom resource.

  Example: 8080

- Label: `protocol`

  Label Description: Protocol configured for the associated ULB Custom resource. Supported CRD protocol values are UDP, TCP, SCTP, GTPC, GTPU, and PFCP

  Example: udp, tcp, sctp, gtpc, gtpu, pfcp

- Label: `ifname`

  Label Description: Linux interface on which the datapath stats were recorded.

  Example: ens192.1001

ulb_dp_forward_total

Description: A cumulative eBPF datapath snapshot of instrumented ULB forwarding-path events.

Sample Query: `'sum by (app_namespace, resource_name, service_ip, service_port, protocol, ifname, path) (rate(ulb_dp_forward_total[5m]))'`

Labels:

- Label: `app_namespace`

  Label Description: Namespace of the associated ULB Custom resource.

  Example: test-lbs-pods

- Label: `resource_name`

  Label Description: Name of the associated ULB Custom resource.

  Example: example-loadbalancer

- Label: `service_ip`

  Label Description: Service IP configured for the associated ULB Custom resource; dual-stack or multihomed services produce a separate series for each service IP.

Example: 192.0.2.58

- Label: `service_port`

  Label Description: Service port configured for the associated ULB Custom resource.

  Example: 8080

- Label: `protocol`

  Label Description: Protocol configured for the associated ULB Custom resource. Supported CRD protocol values are UDP, TCP, SCTP, GTPC, GTPU, and PFCP

  Example: udp, tcp, sctp, gtpc, gtpu, pfcp

- Label: `ifname`

  Label Description: Linux interface on which the datapath stats were recorded.

  Example: ens192.1001

- Label: `path`

  Label Description: Instrumented forwarding event: forward_to_local_pod = CT-miss forwarding to a local backend pod; forward_to_local_pod_fp = CT-hit fast-path forwarding to a local backend pod; forward_to_remote_pod = CT-miss ingress forwarding to a pod on a remote node; forward_to_remote_pod_fp = CT-hit fast-path ingress forwarding to a pod on a remote node; forward_to_peer = CT-miss path forwarding toward a remote node or client; forward_to_peer_fp = CT-hit fast-path forwarding toward a remote node or client; cloned_pkts = SCTP INIT packets for which peer-node cloning is attempted; the counter increments once per packet.

  Example: forward_to_local_pod, forward_to_local_pod_fp, forward_to_remote_pod, forward_to_remote_pod_fp, forward_to_peer, forward_to_peer_fp, cloned_pkts

ulb_dp_ebpf_failures

Description: A cumulative eBPF datapath snapshot of instrumented failure events by reason.

Sample Query: `'sum by (app_namespace, resource_name, service_ip, service_port, protocol, ifname, reason) (rate(ulb_dp_ebpf_failures[5m]))'`

Labels:

- Label: `app_namespace`

  Label Description: Namespace of the associated ULB Custom resource.

  Example: test-lbs-pods

- Label: `resource_name`

  Label Description: Name of the associated ULB Custom resource.

  Example: example-loadbalancer

- Label: `service_ip`

  Label Description: Service IP configured for the associated ULB Custom resource; dual-stack or multihomed services produce a separate series for each service IP.

  Example: 192.0.2.58

- Label: `service_port`

  Label Description: Service port configured for the associated ULB Custom resource.

  Example: 8080

- Label: `protocol`

  Label Description: Protocol configured for the associated ULB Custom resource. Supported CRD protocol values are UDP, TCP, SCTP, GTPC, GTPU, and PFCP

  Example: udp, tcp, sctp, gtpc, gtpu, pfcp

- Label: `ifname`

  Label Description: Linux interface on which the datapath stats were recorded.

  Example: ens192.1001

- Label: `reason`

  Label Description: Recognized failure reason: rx_invalid_pkt = invalid RX packet; rx_revalidate_failed = RX revalidation failure; rx_parse_error = RX parser failure; rx_no_svc_ip_mapping = no service-IP mapping; rx_no_endpoint = no selected endpoint; rx_ep_info_missing = missing endpoint metadata; rx_policy_drop = policy drop; rx_tail_call_failed = RX tail-call failure; rx_ct_lookup = RX connection-tracking lookup failure; tx_invalid_pkt = invalid TX packet; tx_fib_lookup = TX FIB lookup failure; tx_redirect_peer = peer-redirection failure; tx_redirect_neigh = neighbor-redirection failure; tx_ingress_ct_update = ingress connection-tracking update failure; tx_egress_ct_seed = egress connection-tracking seed failure; tx_egress_service_lookup = egress service lookup by source tuple failed; tx_sor_rewrite = service outbound route L2 rewrite failure; tx_invalid_dest_mac = invalid remote destination MAC drop.

  Example: rx_invalid_pkt, rx_revalidate_failed, rx_parse_error, rx_no_svc_ip_mapping, rx_no_endpoint, rx_ep_info_missing, rx_policy_drop, rx_tail_call_failed, rx_ct_lookup, tx_invalid_pkt, tx_fib_lookup, tx_redirect_peer, tx_redirect_neigh, tx_ingress_ct_update, tx_egress_ct_seed, tx_egress_service_lookup, tx_sor_rewrite, tx_invalid_dest_mac

bpf_map_add_entry_total

Description: Total number of BPF map entries added

Sample Query: `'sum(bpf_map_add_entry_total) by (pod)'`

Labels:

bpf_map_modify_entry_total

Description: Total number of BPF map entries modified

Sample Query: `'sum(bpf_map_modify_entry_total) by (pod)'`

Labels:

bpf_map_delete_entry_total

Description: Total number of BPF map entries deleted

Sample Query: `'sum(bpf_map_delete_entry_total) by (pod)'`

Labels:

ULB Operator Metrics Category

loadbalancer_custom_resource_add_success_total

Description: Total number loadbalancer custom resource add request received Success

Sample Query: `'sum(loadbalancer_custom_resource_add_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

loadbalancer_custom_resource_add_fail_total

Description: Total number loadbalancer custom resource add request received Failed

Sample Query: `'sum(loadbalancer_custom_resource_add_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

Label Description: Name of the CR

Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

loadbalancer_custom_resource_modify_success_total

Description: Total number loadbalancer custom resource modify request received Success

Sample Query: `'sum(loadbalancer_custom_resource_modify_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

loadbalancer_custom_resource_modify_fail_total

Description: Total number loadbalancer custom resource modify request received Failed

Sample Query: `'sum(loadbalancer_custom_resource_modify_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

loadbalancer_custom_resource_delete_success_total

Description: Total number loadbalancer custom resource delete request received Success

Sample Query: `'sum(loadbalancer_custom_resource_delete_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `Error`

Label Description: Any issues encountered while processing the custom resource LB or EMP

Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

loadbalancer_custom_resource_delete_fail_total

Description: Total number loadbalancer custom resource delete request received Failed

Sample Query: `'sum(loadbalancer_custom_resource_delete_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

egressmanagementpolicies_custom_resource_add_success_total

Description: Total number egressmanagementpolicies custom resource add request received Success

Sample Query: `'sum(egressmanagementpolicies_custom_resource_add_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `BackendPodName`

  Label Description: Backend pod name

  Example: pod-1, pod-2

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

egressmanagementpolicies_custom_resource_add_fail_total

Description: Total number egressmanagementpolicies custom resource add request received Failed

Sample Query: `'sum(egressmanagementpolicies_custom_resource_add_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

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- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `BackendPodName`

  Label Description: Backend pod name

  Example: pod-1, pod-2

- Label: `Error`

Label Description: Any issues encountered while processing the custom resource LB or EMP

Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

egressmanagementpolicies_custom_resource_modify_success_total

Description: Total number egressmanagementpolicies custom resource modify request received Success

Sample Query: `'sum(egressmanagementpolicies_custom_resource_modify_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `BackendPodName`

  Label Description: Backend pod name

  Example: pod-1, pod-2

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

egressmanagementpolicies_custom_resource_modify_fail_total

Description: Total number egressmanagementpolicies custom resource modify request received Failed

Sample Query: `'sum(egressmanagementpolicies_custom_resource_modify_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `BackendPodName`

  Label Description: Backend pod name

  Example: pod-1, pod-2

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

egressmanagementpolicies_custom_resource_delete_success_total

Description: Total number egressmanagementpolicies custom resource delete request received Success

Sample Query: `'sum(egressmanagementpolicies_custom_resource_delete_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `BackendPodName`

Label Description: Backend pod name

Example: pod-1, pod-2

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

egressmanagementpolicies_custom_resource_delete_fail_total

Description: Total number egressmanagementpolicies custom resource delete request received Failed

Sample Query: `'sum(egressmanagementpolicies_custom_resource_delete_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `BackendPodName`

  Label Description: Backend pod name

  Example: pod-1, pod-2

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

service_modify_total_not_loadbalancer_owner

Description: Total number of service modify request whose owner is not LB crd

Sample Query: `'sum(service_modify_total_not_loadbalancer_owner) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

service_delete_total_not_loadbalancer_owner

Description: Total number of service delete request whose owner is not LB crd

Sample Query: `'sum(service_delete_total_not_loadbalancer_owner) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `Error`

Label Description: Any issues encountered while processing the custom resource LB or EMP

Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

service_modify_total_not_egressmanagementpolicies_owner

Description: Total number of service modify request whose owner is not EMP crd

Sample Query: `'sum(service_modify_total_not_egressmanagementpolicies_owner) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `BackendPodName`

  Label Description: Backend pod name

  Example: pod-1, pod-2

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

service_delete_total_not_egressmanagementpolicies_owner

Description: Total number of service delete request whose owner is not EMP crd

Sample Query: `'sum(service_delete_total_not_egressmanagementpolicies_owner) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where custom resource is added

  Example: example-namespace

- Label: `Kind`

  Label Description: Denote whether the resource is LB CR or EMP CR

  Example: EgressManagementPolicy, LoadBalancer

- Label: `CrName`

  Label Description: Name of the CR

  Example: example-lb-cr

- Label: `SvcName`

  Label Description: Service name

  Example: service-1

- Label: `BackendPodName`

  Label Description: Backend pod name

  Example: pod-1, pod-2

- Label: `Error`

  Label Description: Any issues encountered while processing the custom resource LB or EMP

  Example: services testudpemp-pod-1 is forbidden: exceeded quota: service-quota, requested: services=1, used: services=2, limited: services=2

ulbnetworkpolicy_nad_add_success_total

Description: Total number of NAD add requests for UlbNetworkPolicy Success

Sample Query: `'sum(ulbnetworkpolicy_nad_add_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where UlbNetworkPolicy custom resource is created

  Example: example-namespace

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbNetworkPolicy

- Label: `CrName`

  Label Description: Name of the UlbNetworkPolicy CR

  Example: example-ulbnetworkpolicy

- Label: `NadName`

  Label Description: Name of the Network Attachment Definition (NAD) created

  Example: nad-directservice-ip1

- Label: `Error`

Label Description: Any issues encountered while processing the NAD

Example: failed to create NAD: resource already exists

ulbnetworkpolicy_nad_add_fail_total

Description: Total number of NAD add requests for UlbNetworkPolicy Failed

Sample Query: `'sum(ulbnetworkpolicy_nad_add_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where UlbNetworkPolicy custom resource is created

  Example: example-namespace

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbNetworkPolicy

- Label: `CrName`

  Label Description: Name of the UlbNetworkPolicy CR

  Example: example-ulbnetworkpolicy

- Label: `NadName`

  Label Description: Name of the Network Attachment Definition (NAD) that failed to create

  Example: nad-directservice-ip1

- Label: `Error`

  Label Description: Any issues encountered while processing the NAD

  Example: failed to create NAD: resource already exists

ulbnetworkpolicy_nad_modify_success_total

Description: Total number of NAD modify requests for UlbNetworkPolicy Success

Sample Query: `'sum(ulbnetworkpolicy_nad_modify_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where UlbNetworkPolicy custom resource is created

  Example: example-namespace

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbNetworkPolicy

- Label: `CrName`

Label Description: Name of the UlbNetworkPolicy CR

Example: example-ulbnetworkpolicy

- Label: `NadName`

  Label Description: Name of the Network Attachment Definition (NAD) modified

  Example: nad-directservice-ip1

- Label: `Error`

  Label Description: Any issues encountered while processing the NAD

  Example: failed to update NAD: resource not found

ulbnetworkpolicy_nad_modify_fail_total

Description: Total number of NAD modify requests for UlbNetworkPolicy Failed

Sample Query: `'sum(ulbnetworkpolicy_nad_modify_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where UlbNetworkPolicy custom resource is created

  Example: example-namespace

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbNetworkPolicy

- Label: `CrName`

  Label Description: Name of the UlbNetworkPolicy CR

  Example: example-ulbnetworkpolicy

- Label: `NadName`

  Label Description: Name of the Network Attachment Definition (NAD) that failed to modify

  Example: nad-directservice-ip1

- Label: `Error`

  Label Description: Any issues encountered while processing the NAD

  Example: failed to update NAD: resource not found

ulbnetworkpolicy_nad_delete_success_total

Description: Total number of NAD delete requests for UlbNetworkPolicy Success

Sample Query: `'sum(ulbnetworkpolicy_nad_delete_success_total) by (CrName)'`

Labels:

- Label: `NameSpace`

Label Description: The namespace where UlbNetworkPolicy custom resource is created

Example: example-namespace

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbNetworkPolicy

- Label: `CrName`

  Label Description: Name of the UlbNetworkPolicy CR

  Example: example-ulbnetworkpolicy

- Label: `NadName`

  Label Description: Name of the Network Attachment Definition (NAD) deleted

  Example: nad-directservice-ip1

- Label: `Error`

  Label Description: Any issues encountered while processing the NAD

  Example: failed to delete NAD: resource not found

ulbnetworkpolicy_nad_delete_fail_total

Description: Total number of NAD delete requests for UlbNetworkPolicy Failed

Sample Query: `'sum(ulbnetworkpolicy_nad_delete_fail_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where UlbNetworkPolicy custom resource is created

  Example: example-namespace

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbNetworkPolicy

- Label: `CrName`

  Label Description: Name of the UlbNetworkPolicy CR

  Example: example-ulbnetworkpolicy

- Label: `NadName`

  Label Description: Name of the Network Attachment Definition (NAD) that failed to delete

  Example: nad-directservice-ip1

- Label: `Error`

  Label Description: Any issues encountered while processing the NAD

  Example: failed to delete NAD: resource not found

ulbclusterpolicy_add_success_total

Description: Total number of UlbClusterPolicy add requests Success

Sample Query: `'sum(ulbclusterpolicy_add_success_total) by (CrName)'`

Labels:

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbClusterPolicy

- Label: `CrName`

  Label Description: Name of the UlbClusterPolicy CR

  Example: example-ulbclusterpolicy

- Label: `Error`

  Label Description: Any issues encountered while processing the UlbClusterPolicy

  Example: failed to add cluster policy: invalid configuration

ulbclusterpolicy_add_fail_total

Description: Total number of UlbClusterPolicy add requests Failed

Sample Query: `'sum(ulbclusterpolicy_add_fail_total) by (CrName)'`

Labels:

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbClusterPolicy

- Label: `CrName`

  Label Description: Name of the UlbClusterPolicy CR

  Example: example-ulbclusterpolicy

- Label: `Error`

  Label Description: Any issues encountered while processing the UlbClusterPolicy

  Example: failed to add cluster policy: invalid configuration

ulbclusterpolicy_modify_success_total

Description: Total number of UlbClusterPolicy modify requests Success

Sample Query: `'sum(ulbclusterpolicy_modify_success_total) by (CrName)'`

Labels:

- Label: `Kind`

  Label Description: The kind of custom resource

Example: UlbClusterPolicy

- Label: `CrName`

  Label Description: Name of the UlbClusterPolicy CR

  Example: example-ulbclusterpolicy

- Label: `Error`

  Label Description: Any issues encountered while processing the UlbClusterPolicy

  Example: failed to modify cluster policy: invalid configuration

ulbclusterpolicy_modify_fail_total

Description: Total number of UlbClusterPolicy modify requests Failed

Sample Query: `'sum(ulbclusterpolicy_modify_fail_total) by (CrName)'`

Labels:

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbClusterPolicy

- Label: `CrName`

  Label Description: Name of the UlbClusterPolicy CR

  Example: example-ulbclusterpolicy

- Label: `Error`

  Label Description: Any issues encountered while processing the UlbClusterPolicy

  Example: failed to modify cluster policy: invalid configuration

ulbclusterpolicy_delete_success_total

Description: Total number of UlbClusterPolicy delete requests Success

Sample Query: `'sum(ulbclusterpolicy_delete_success_total) by (CrName)'`

Labels:

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbClusterPolicy

- Label: `CrName`

  Label Description: Name of the UlbClusterPolicy CR

  Example: example-ulbclusterpolicy

- Label: `Error`

  Label Description: Any issues encountered while processing the UlbClusterPolicy

Example: failed to delete cluster policy: invalid configuration

ulbclusterpolicy_delete_fail_total

Description: Total number of UlbClusterPolicy delete requests Failed

Sample Query: `'sum(ulbclusterpolicy_delete_fail_total) by (CrName)'`

Labels:

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbClusterPolicy

- Label: `CrName`

  Label Description: Name of the UlbClusterPolicy CR

  Example: example-ulbclusterpolicy

- Label: `Error`

  Label Description: Any issues encountered while processing the UlbClusterPolicy

  Example: failed to delete cluster policy: invalid configuration

ulbclusterpolicy_node_allocation_success_total

Description: Total number of UlbClusterPolicy node allocation requests Success

Sample Query: `'sum(ulbclusterpolicy_node_allocation_success_total) by (NodeName, PoolName)'`

Labels:

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbClusterPolicy

- Label: `CrName`

  Label Description: Name of the UlbClusterPolicy CR

  Example: example-ulbclusterpolicy

- Label: `NodeName`

  Label Description: Name of the node for which allocation was performed

  Example: worker-node-1

- Label: `PoolName`

  Label Description: Name of the IP pool

  Example: pool-1

- Label: `Error`

  Label Description: Any issues encountered during node allocation

ulbclusterpolicy_node_allocation_fail_total

Description: Total number of UlbClusterPolicy node allocation requests Failed

Sample Query: `'sum(ulbclusterpolicy_node_allocation_fail_total) by (NodeName, PoolName)'`

Labels:

- Label: `Kind`

  Label Description: The kind of custom resource

  Example: UlbClusterPolicy

- Label: `CrName`

  Label Description: Name of the UlbClusterPolicy CR

  Example: example-ulbclusterpolicy

- Label: `NodeName`

  Label Description: Name of the node for which allocation failed

  Example: worker-node-1

- Label: `PoolName`

  Label Description: Name of the IP pool

  Example: pool-1

- Label: `Error`

  Label Description: Any issues encountered during node allocation

  Example: insufficient IP addresses in pool

loadbalancer_custom_resource_bpf_mode_total

Description: Total number of LoadBalancer custom resources using BPF mode

Sample Query: `'sum(loadbalancer_custom_resource_bpf_mode_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where LoadBalancer custom resource is created

  Example: example-namespace

- Label: `CrName`

  Label Description: Name of the LoadBalancer CR

  Example: example-lb-cr

egressmanagementpolicies_custom_resource_bpf_mode_total

Description: Total number egressmanagementpolicies custom resource using BPF mode

Sample Query: `'sum(egressmanagementpolicies_custom_resource_bpf_mode_total) by (CrName)'`

Labels:

- Label: `NameSpace`

  Label Description: The namespace where EgressManagementPolicy custom resource is created

  Example: example-namespace

- Label: `CrName`

  Label Description: Name of the EgressManagementPolicy CR

  Example: example-emp-cr