Monitoring & Alerts for HA/SAP Clusters

Summary:

1) Ha Dashboard highlights

2) Ha alerts highlights

3) ha-exporter highlights of 0.2.0 release

HA Dashboard

Enable multi-clusters on a single dashboard

HA Cluster Status ▾

| Data Source | Prometheus SHAP ▾ | hacluster | hacluster-01 ▾ | HANA Node | dmaio-hana01 ▾ | Filters | + |

⌄ Alerts

Prometheus Alerts

| Time ▾	Name	State	role
2019-11-18 12:34:58	sap-hana-secondary-resource-absent	firing	slave
2019-11-18 12:34:58	sap-hana-master-resource-down	firing	master

Drbd disk status visualization

NEW visualisation added: DRBD disks resources state

Drbd disks resources			
drbd disk status	name	role	volume
uptodate	1-single-1	Secondary	0
uptodate	1-single-0	Secondary	0
uptodate	1-multi-0	Secondary	1
uptodate	1-multi-0	Secondary	0

Alerts

Recap: what is alertmanager in hacluster
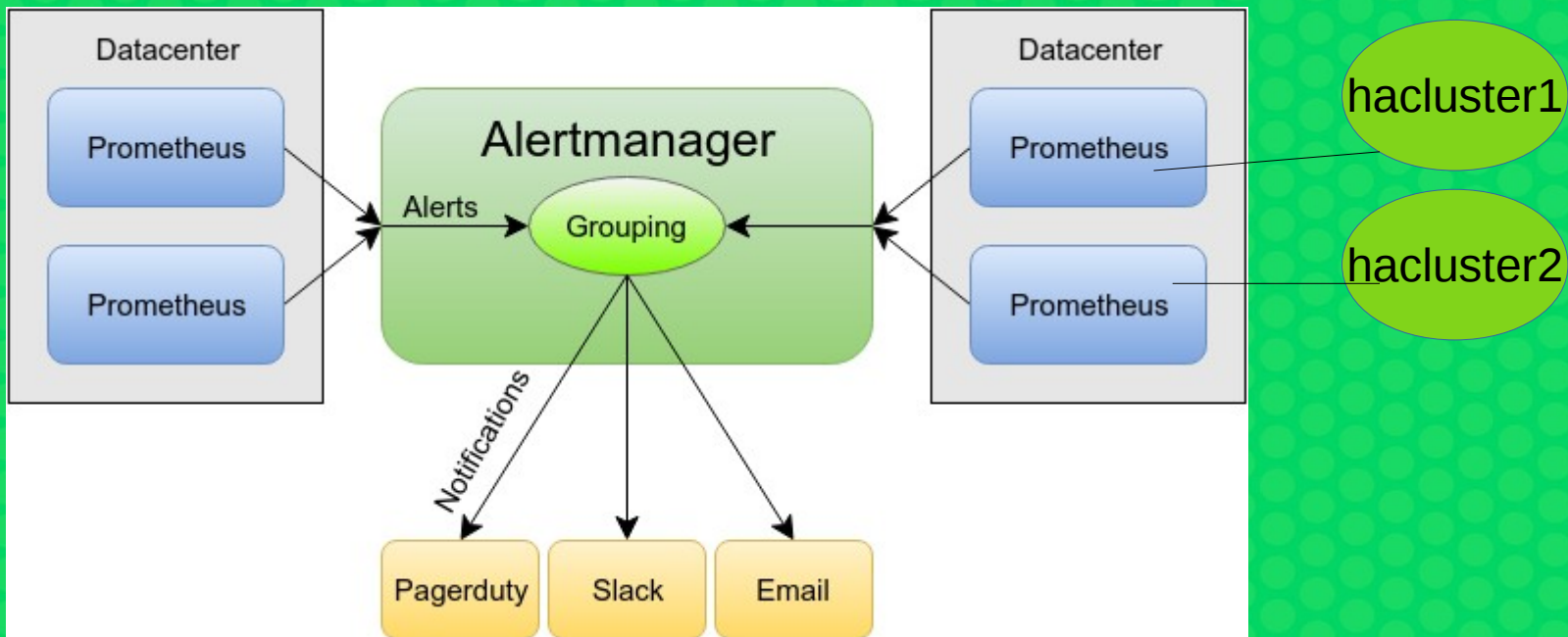
New DRBD
alerts

1) drdb remote
resource

2) drbd sync
percentage

3) drbd local
resource

```
# drbd alerts
- name: drbd-alerts
  rules:
  - alert: drbd-connections-in-a-bad-state
    expr: count(ha_cluster_drbd_connections{peer_disk_state=~"inconsistent|outdated|dunknown|failed"}) >

    labels:
      severity: page
    annotations:
      summary: a drbd connection is an bad state inconsistent|outdated|dunknown|failed


  - alert: drbd-sync-connections-percentage-lower-then-expected
    expr: ha_cluster_drbd_connections_sync < 90
    labels:
      severity: page
    annotations:
      summary: a drbd disk sync is lower then 90 percent!


  - alert: drbd-resource-in-a-bad-state
    expr: count(ha_cluster_drbd_resources{peer_disk_state=~"inconsistent|outdated|dunknown|failed"}) > 0
    labels:
      severity: page
    annotations:
      summary: a drbd resource is an bad state inconsistent|outdated|dunknown|failed
```

Combine threshold and failcount metric to an alert

```
- name: resource-failcount-higher-threshold

  rules:

  - alert: resource-failcount-higher-threshold

    expr: count(ha_cluster_pacemaker_fail_count > ha_cluster_pacemaker_migration_threshold) > 0

    labels:

      severity: page
```

Hacluster exporter 0.2.0