Node Memory usage

```yaml
groups:
  - name: node_usage_memory_r
    rules:
      - record: node_usage_memory_rule
        expr: (node_memory_MemTotal_bytes - node_memory_MemAvailable_bytes) / node_memory_MemTotal_bytes * 1
00
        labels:
          node: node1
```

```yaml
groups:
  - name: node_usage_memory_a
    rules:
      - alert: node_usage_memory_alert
        expr: node_usage_memory_rule > 40
        annotations:
          summary: " memory usage in {{ $labels.instance }}"
          description: "memory usage is {{ $value }}"
```

```yaml
global:
route:
  receiver: 'slack'
  group_by: ['alertname']
  group_wait: 10s
  group_interval: 15s

receivers:
  - name: 'slack'
    slack_configs:
      - channel: "#devops_team"
        send_resolved: true
        api_url: 'https://hooks.slack.com/services/T086Y███████HQF/P2ko8X4S46ZiUc8SyJghwrre'
```

Node exporter - node1 (1/1 up) `show less`

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://192.168█████:9100/metrics	UP	instance="192.16██████:9100" job="Node exporter - node1"	101.000ms ago	23.783ms	

node_usage_memory_a | | 10.656s ago | 0.317ms

Rule	State	Error	Last Evaluation	Evaluation Time

alert: node_usage_memory_alert
expr: node_usage_memory_rule > 40
annotations:
  description: memory usage is {{ $value }}
  summary: memory usage in {{ $labels.instance }}
	OK		10.656s ago	0.300ms

node_usage_memory_r | | 10.286s ago | 0.861ms

Rule	State	Error	Last Evaluation	Evaluation Time
record: node_usage_memory_rule **expr:** (node_memory_MemTotal_bytes - node_memory_MemAvailable_bytes) / node_memory_MemTotal_bytes * 100 **labels:** node: node1	OK		10.287s ago	0.839ms

Activate Windows
Go to Settings to activate Windows.

```
adham@node1:~$ stress --vm 2 --vm-bytes 2G --timeout 50
stress: info: [18433] dispatching hogs: 0 cpu, 0 io, 2 vm, 0 hdd
stress: info: [18433] successful run completed in 50s
adham@node1:~$
```

Inactive (0)   Pending (0)   Firing (1)   Filter by name or labels   Show annotations

/etc/prometheus/alert_rules.yml > node_usage_memory_a   firing (1)

∨ node_usage_memory_alert (1 active)

name: node_usage_memory_alert
expr: node_usage_memory_rule > 40
annotations:
   description: memory usage is {{ $value }}
   summary: memory usage in {{ $labels.instance }}

Labels	State	Active Since	Value
alertname=node_usage_memory_alert instance=19███3:9100 job=Node exporter - node1 node=node1	FIRING	2024-12-31T20:44:25.800198471Z	86.52597435384742

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  + Add apps

devops_team

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                              Today ⌄

S **slack test** 8:47 PM
   joined #devops_team.

S **slack test** 8:55 PM
   added an integration to this channel: Demo App

📓 **Demo App** APP 9:25 PM
   Test message from Alertmanager

📓 **Demo App** APP 9:44 PM
   **[FIRING:1] node_usage_memory_alert (192.168.███:9100 Node exporter - node1
   node1)**

   **[RESOLVED] node_usage_memory_alert (192.16██:9100 Node exporter -
   node1 node1)**

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Message #devops_team

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