

node discovery

in cloud environment



@dadoonet

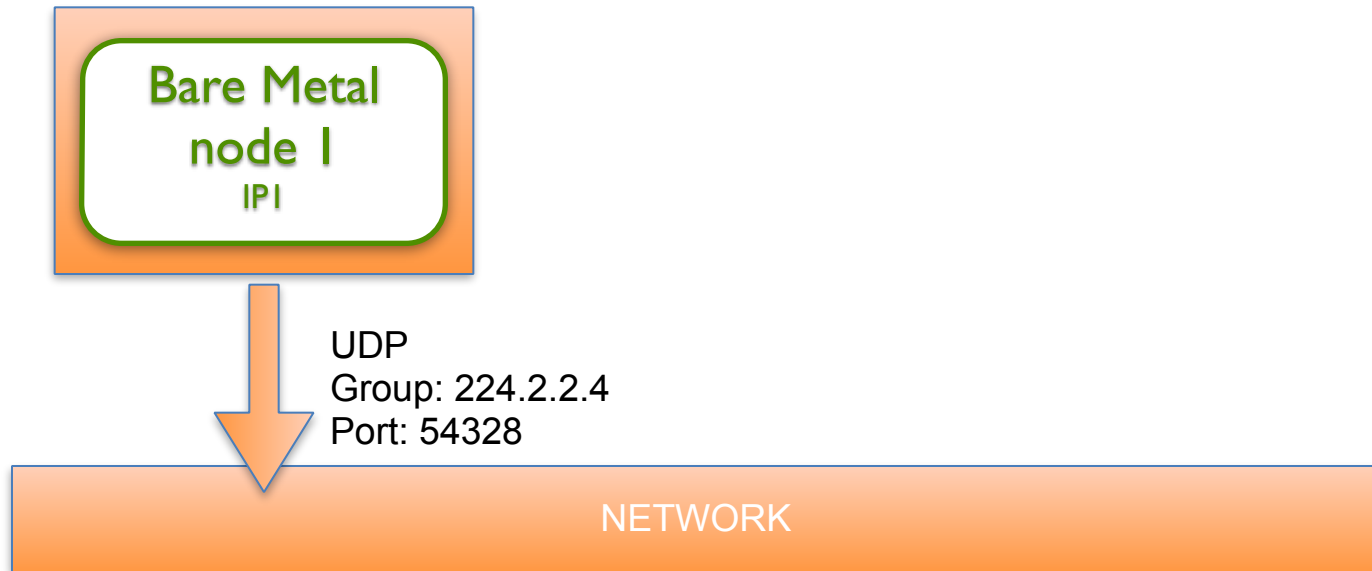
elasticsearch.

Building a 3 nodes cluster

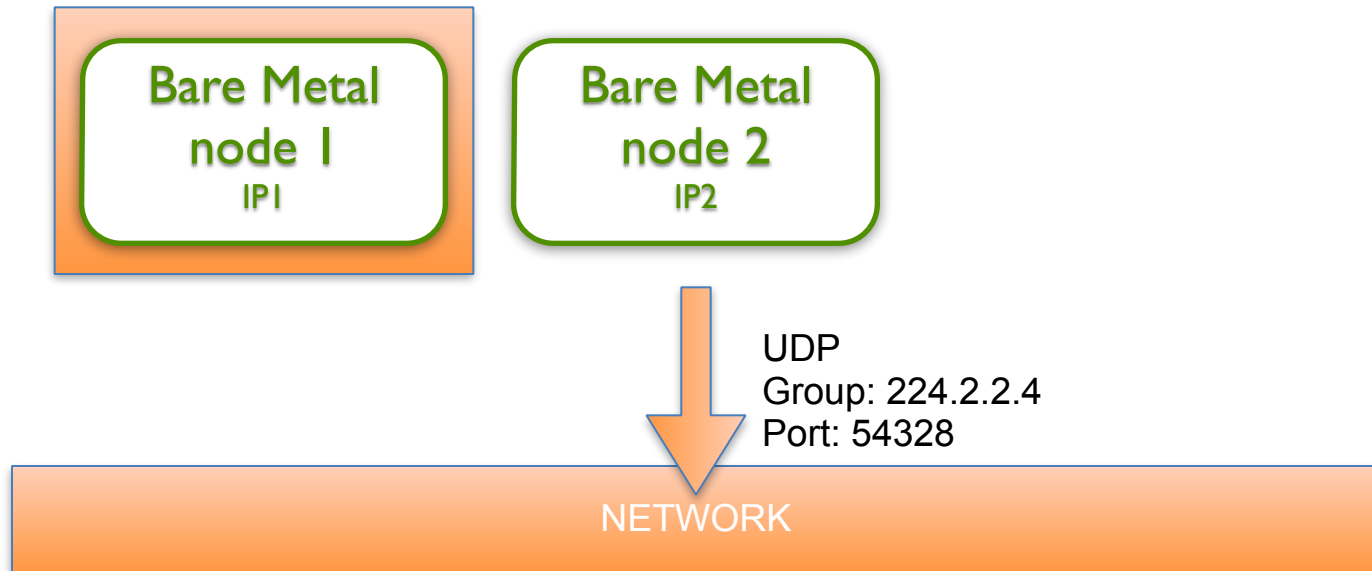


discovery
multicast

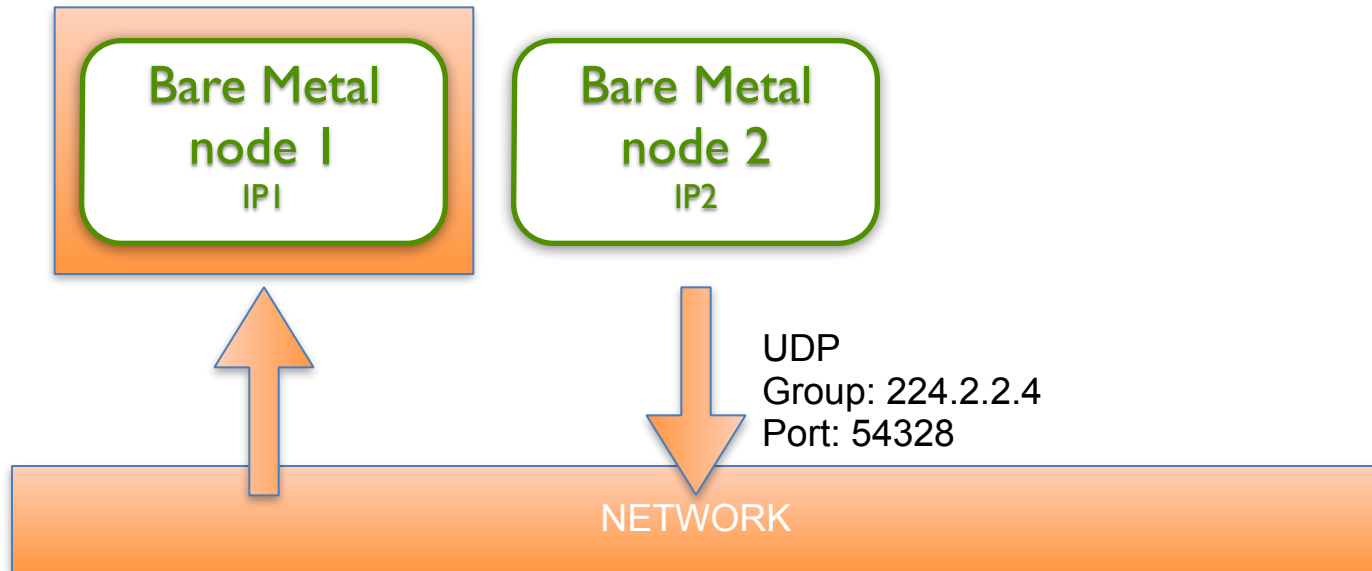
Discovery with multicast



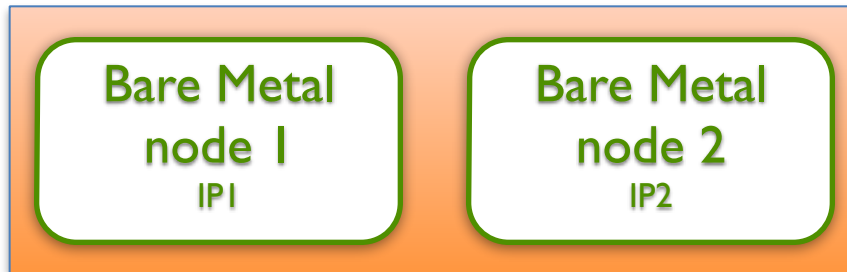
Discovery with multicast



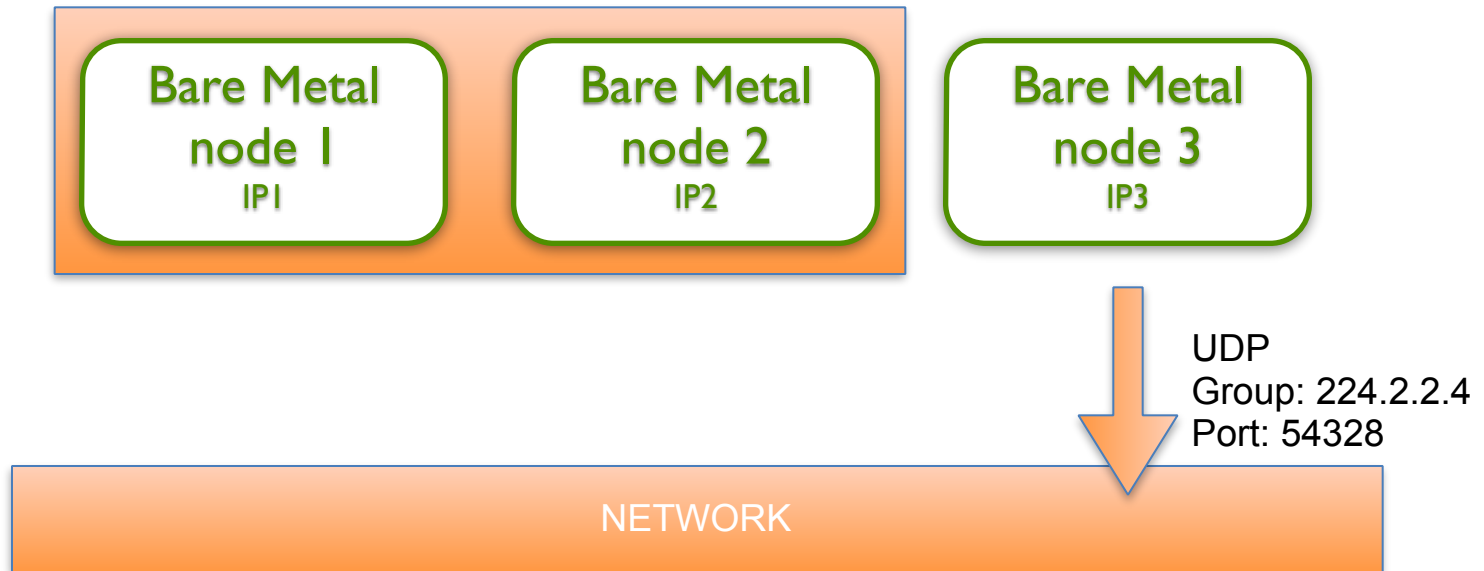
Discovery with multicast



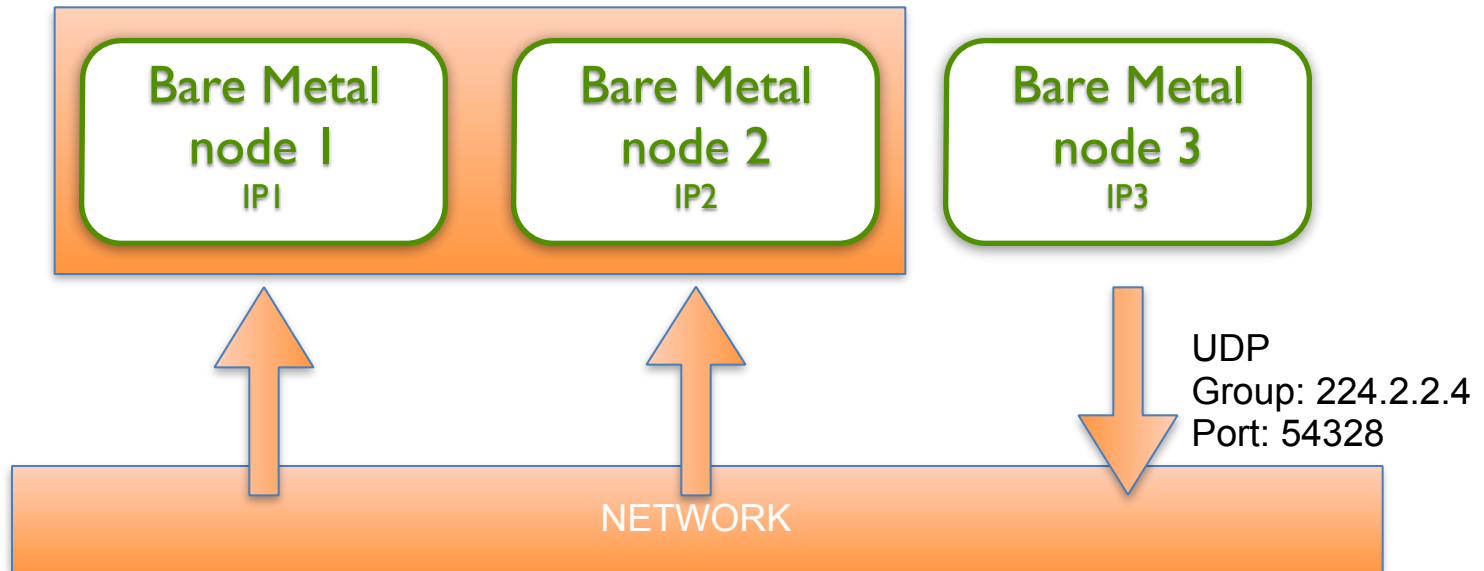
Discovery with multicast



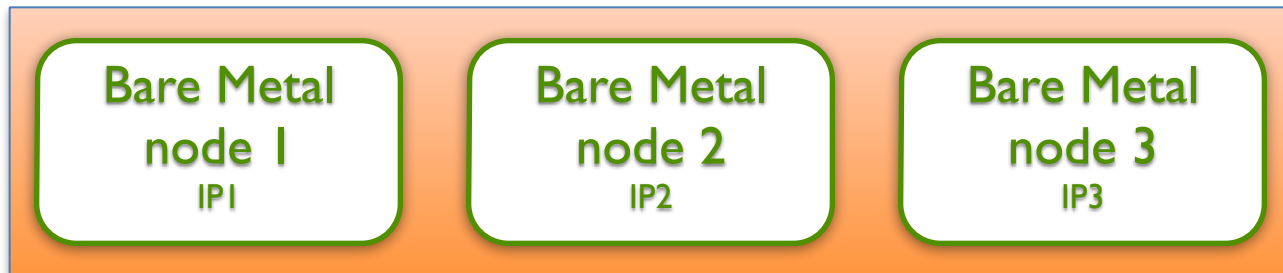
Discovery with multicast



Discovery with multicast



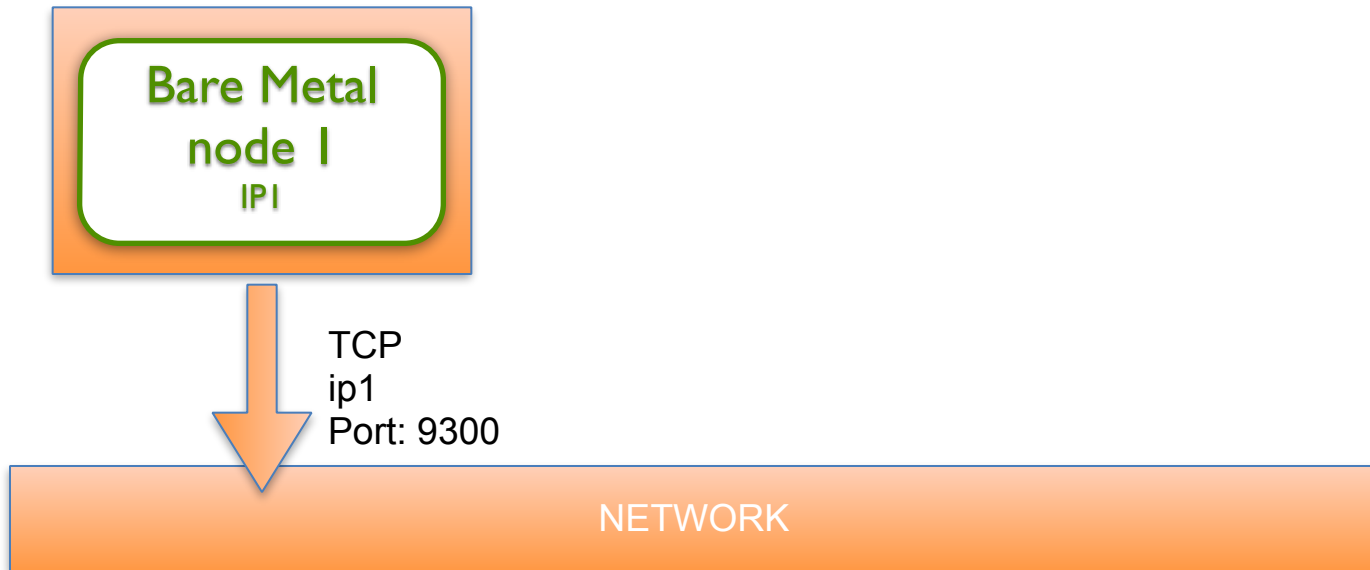
Discovery with multicast



discovery
unicast

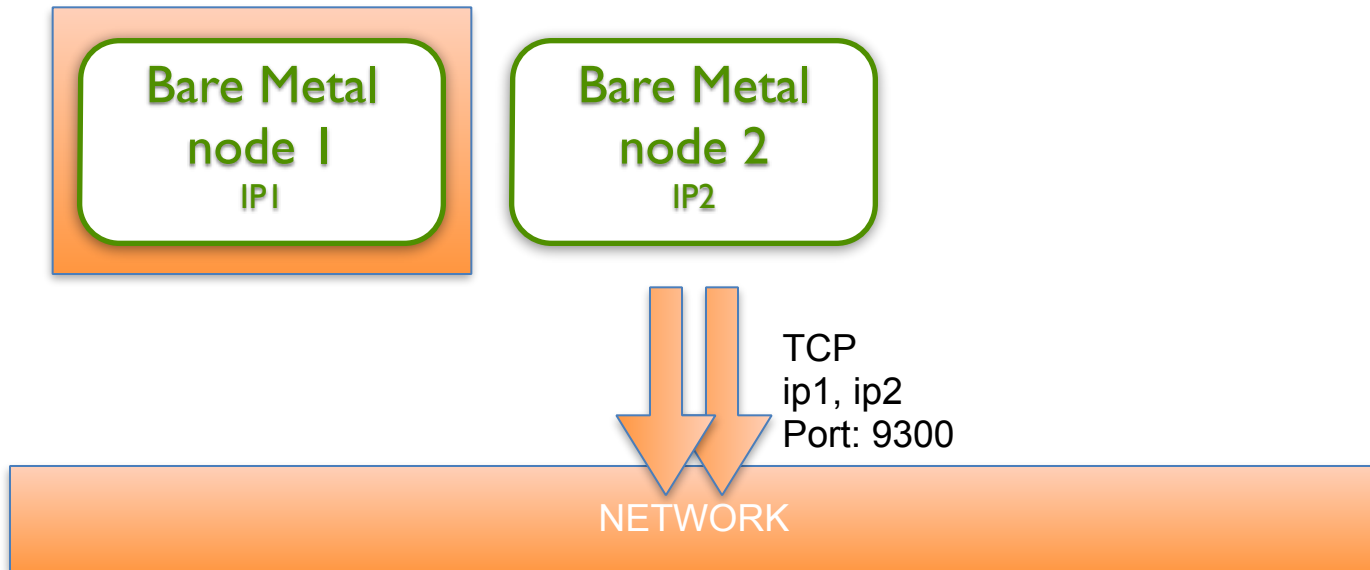
Discovery with unicast

```
config/elasticsearch.yml  
discovery.zen.ping.multicast.enabled: false  
discovery.zen.ping.unicast.hosts: ["ip1"]
```



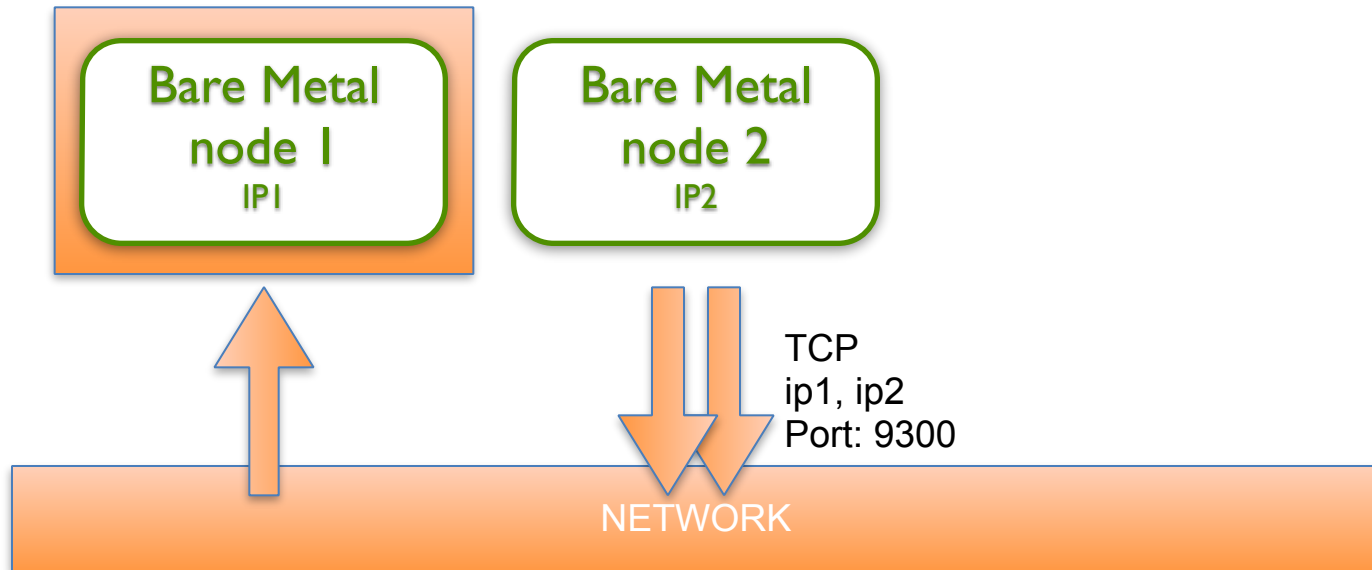
Discovery with unicast

```
config/elasticsearch.yml  
discovery.zen.ping.multicast.enabled: false  
discovery.zen.ping.unicast.hosts: ["ip1","ip2"]
```



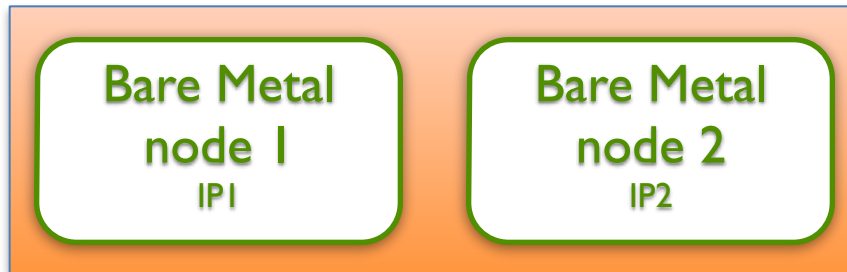
Discovery with unicast

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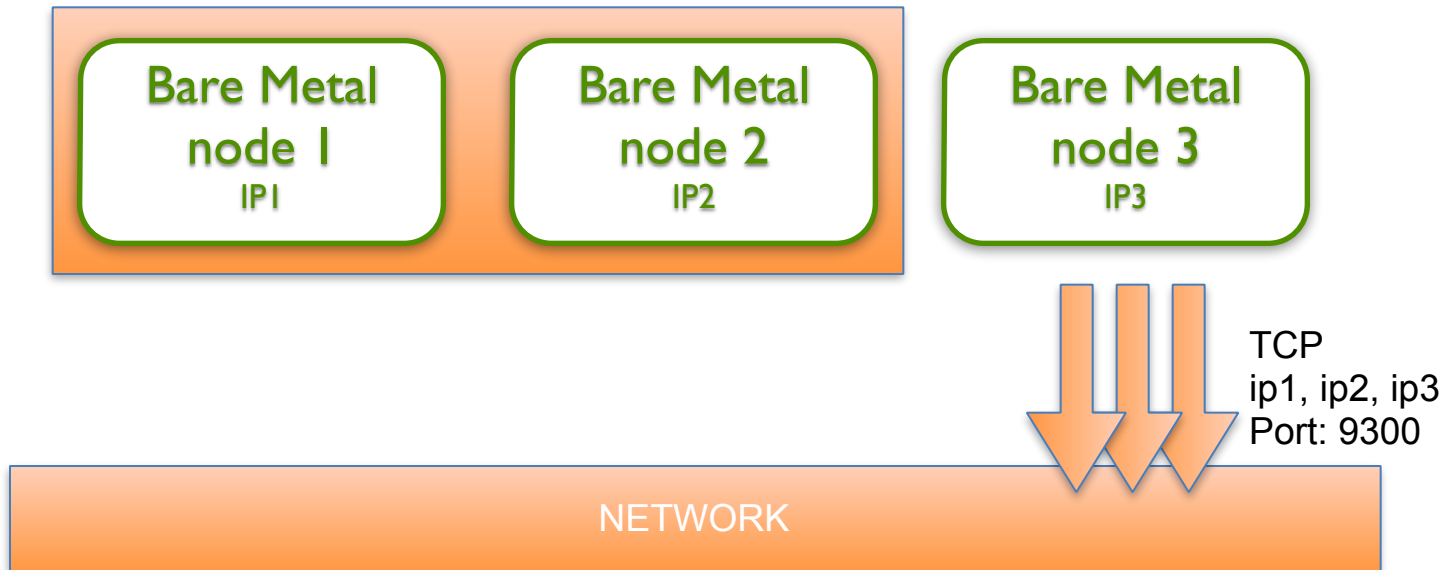
Discovery with unicast

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config/elasticsearch.yml  
discovery.zen.ping.multicast.enabled: false  
discovery.zen.ping.unicast.hosts: ["ip1","ip2"]
```



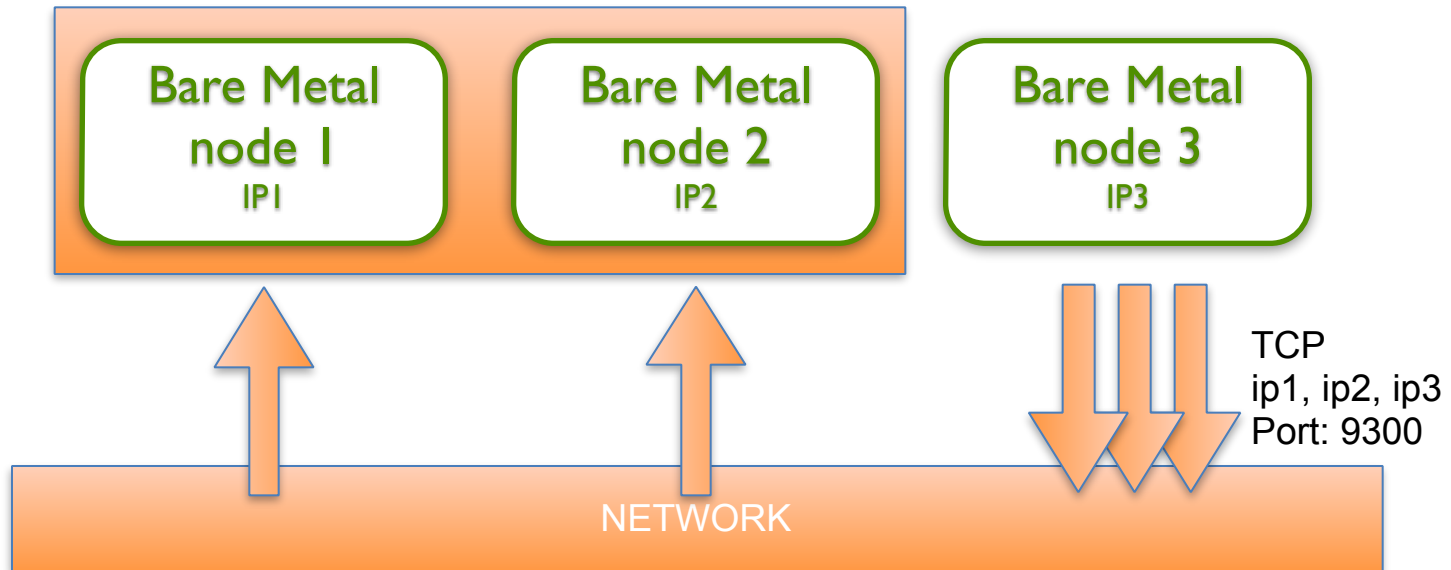
Discovery with unicast

```
config/elasticsearch.yml  
discovery.zen.ping.multicast.enabled: false  
discovery.zen.ping.unicast.hosts: ["ip1","ip2","ip3"]
```

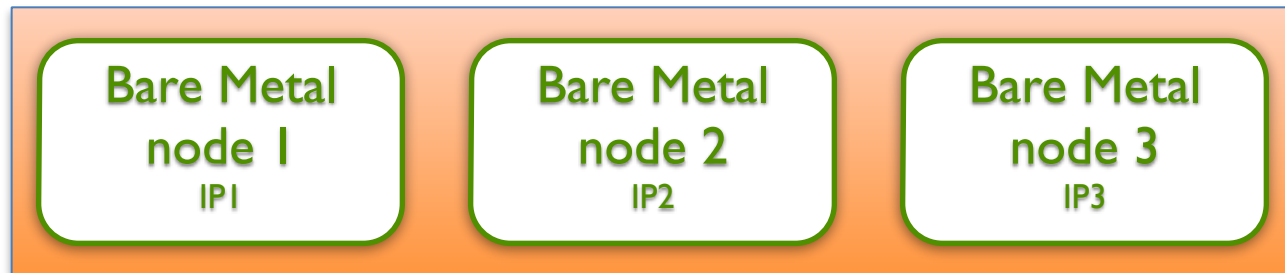


Discovery with unicast

```
config/elasticsearch.yml  
discovery.zen.ping.multicast.enabled: false  
discovery.zen.ping.unicast.hosts: ["ip1","ip2","ip3"]
```



Discovery with unicast



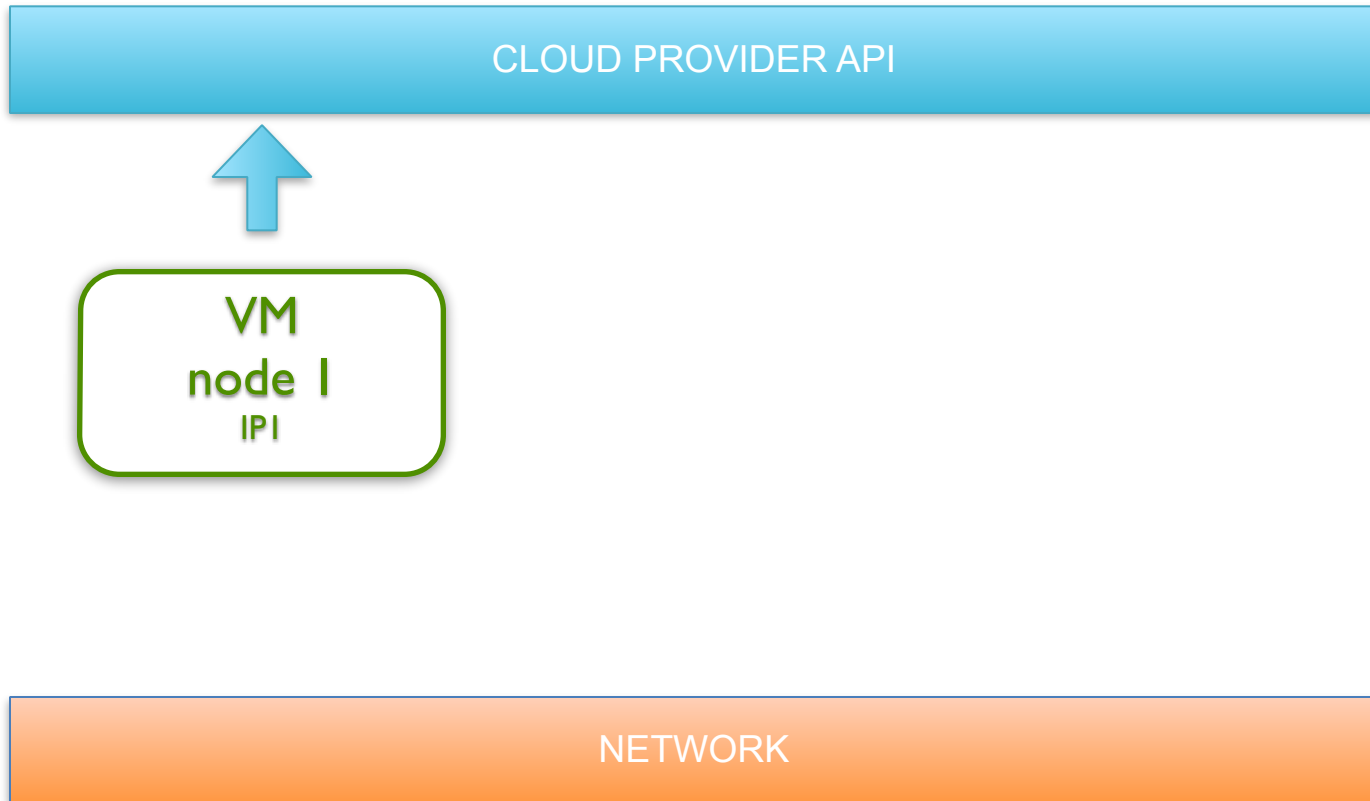
discovery
cloud environment

Problems

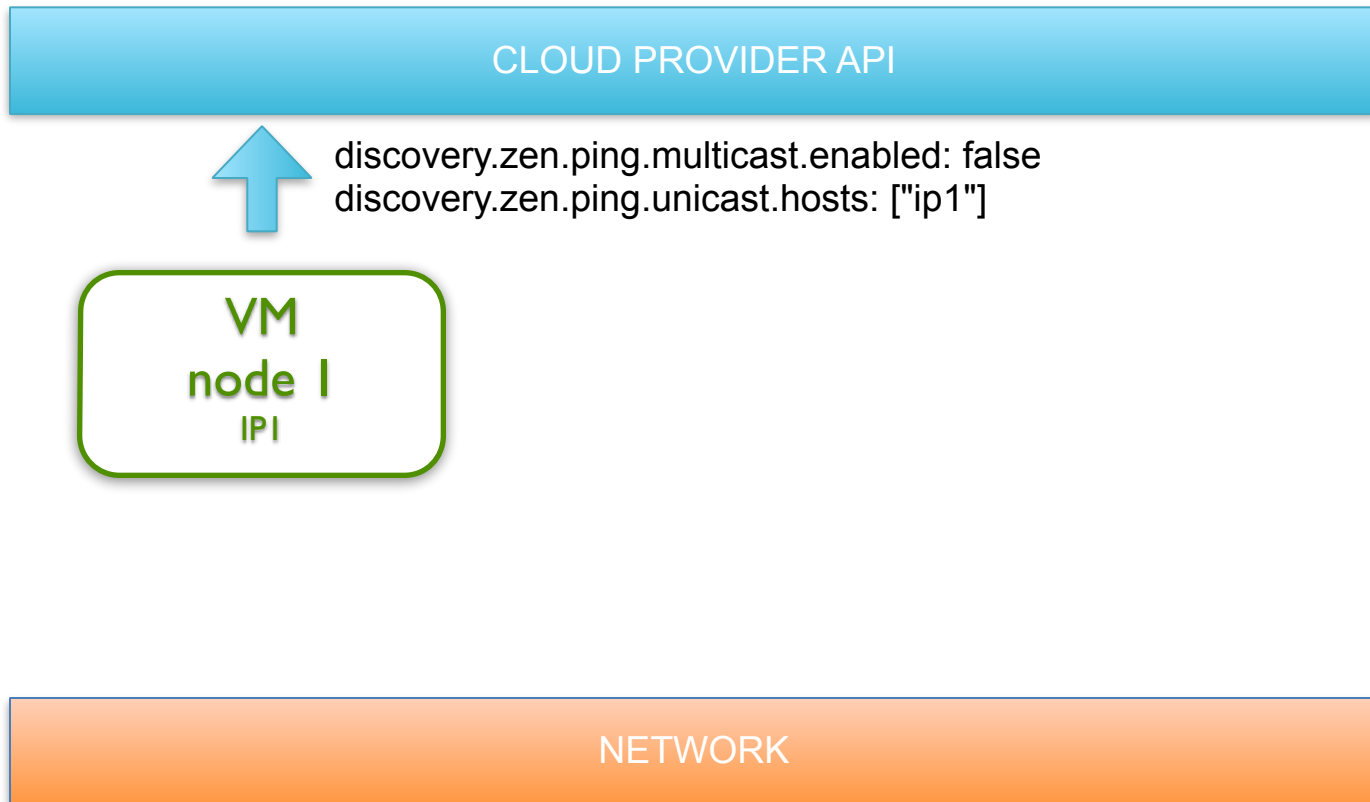
- IP can change
- Number of nodes should scale easily
- Multicast is forbidden

```
config/elasticsearch.yml
discovery.zen.ping.multicast.enabled: false
discovery.zen.ping.unicast.hosts: ["ip1", "ip2", "ip3", "ip4", "ip5", "ip6", "ip7", "ip8", "ip9",
"ip10", "ip11", "ip12", "ip13", "ip14", "ip15", "ip16", "ip17", "ip18"]
```

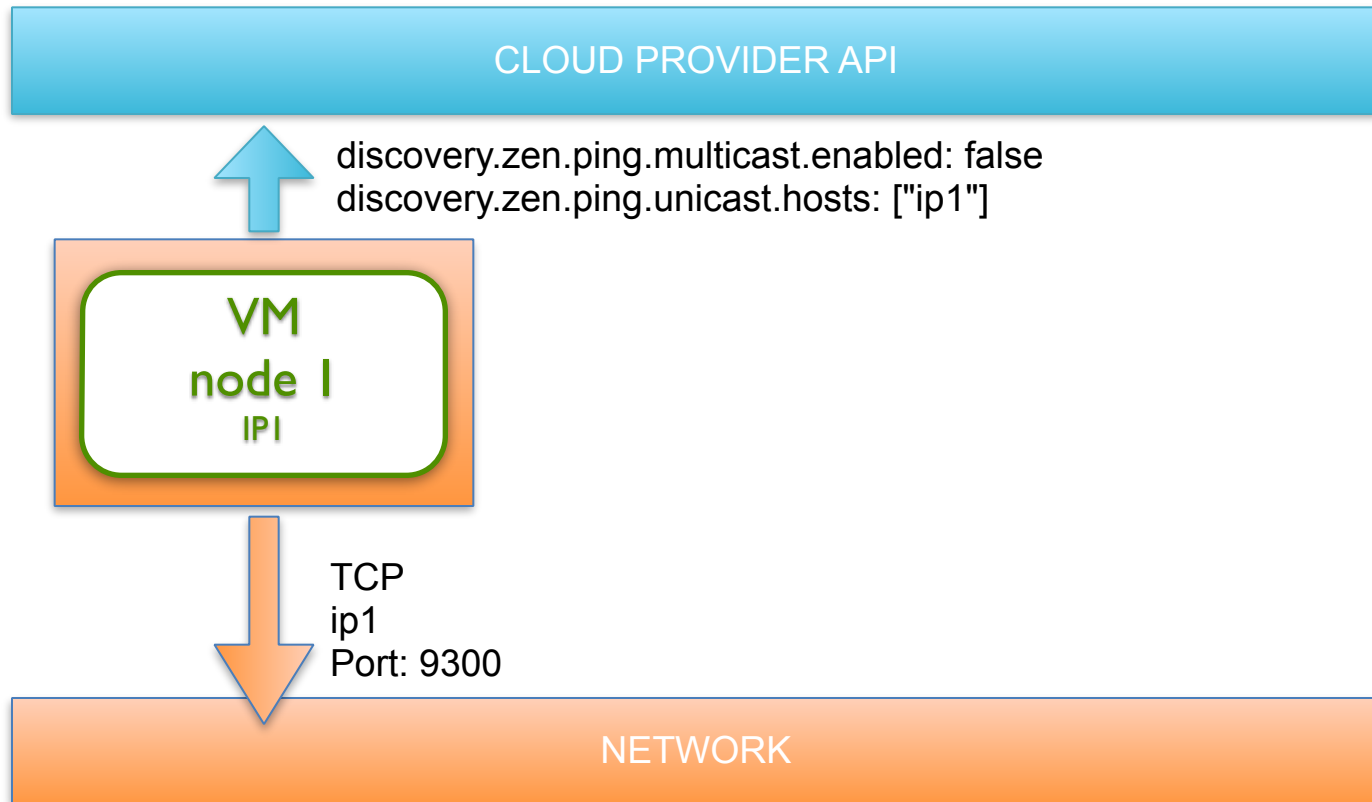
Discovery with cloud plugin



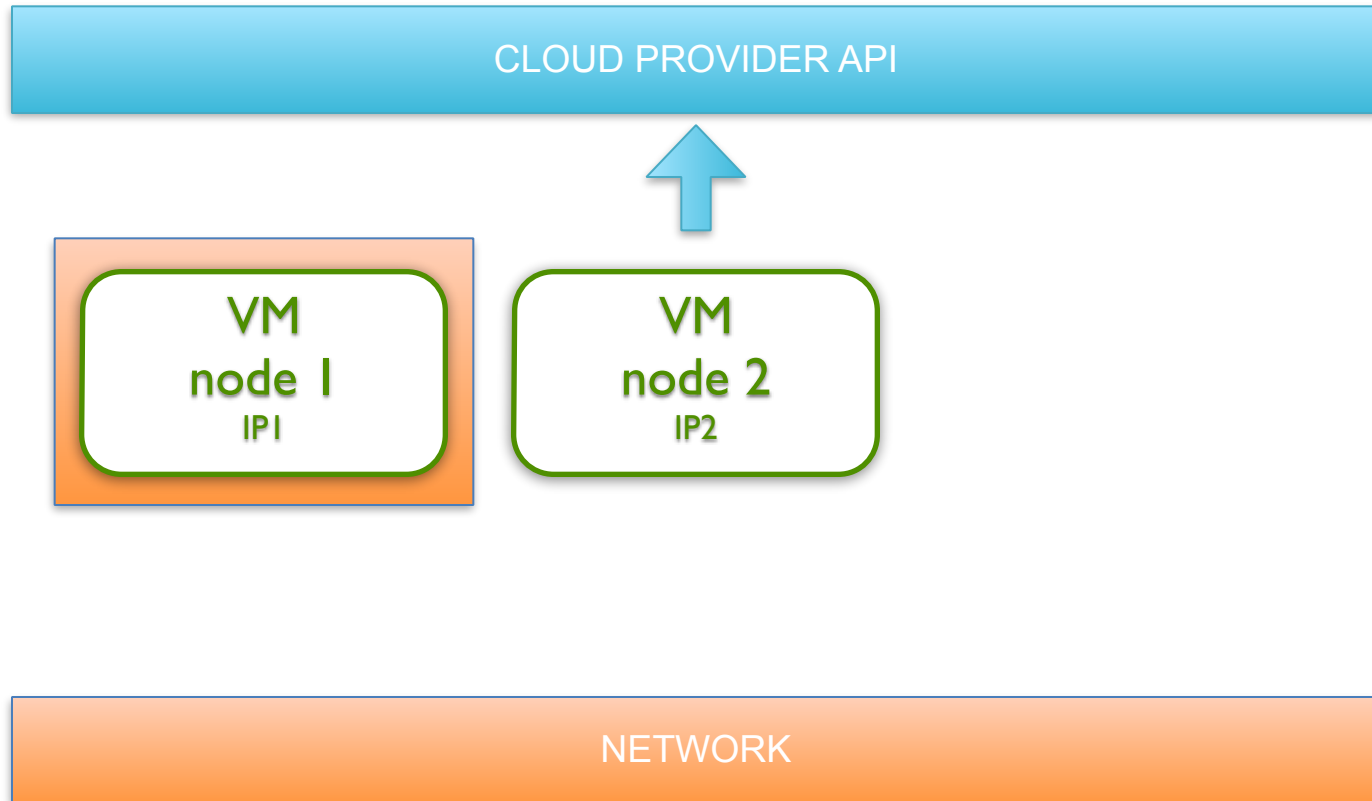
Discovery with cloud plugin



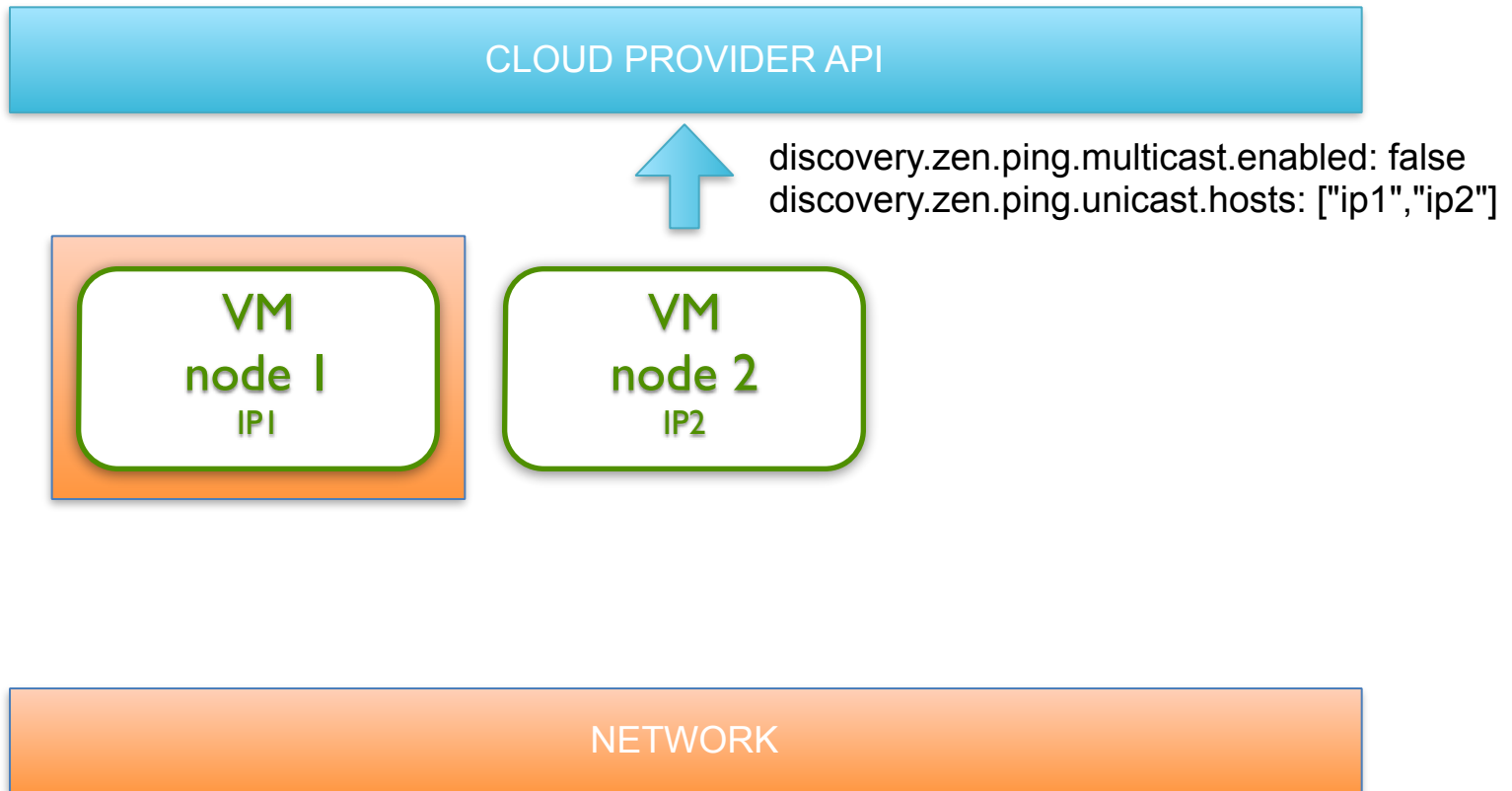
Discovery with cloud plugin



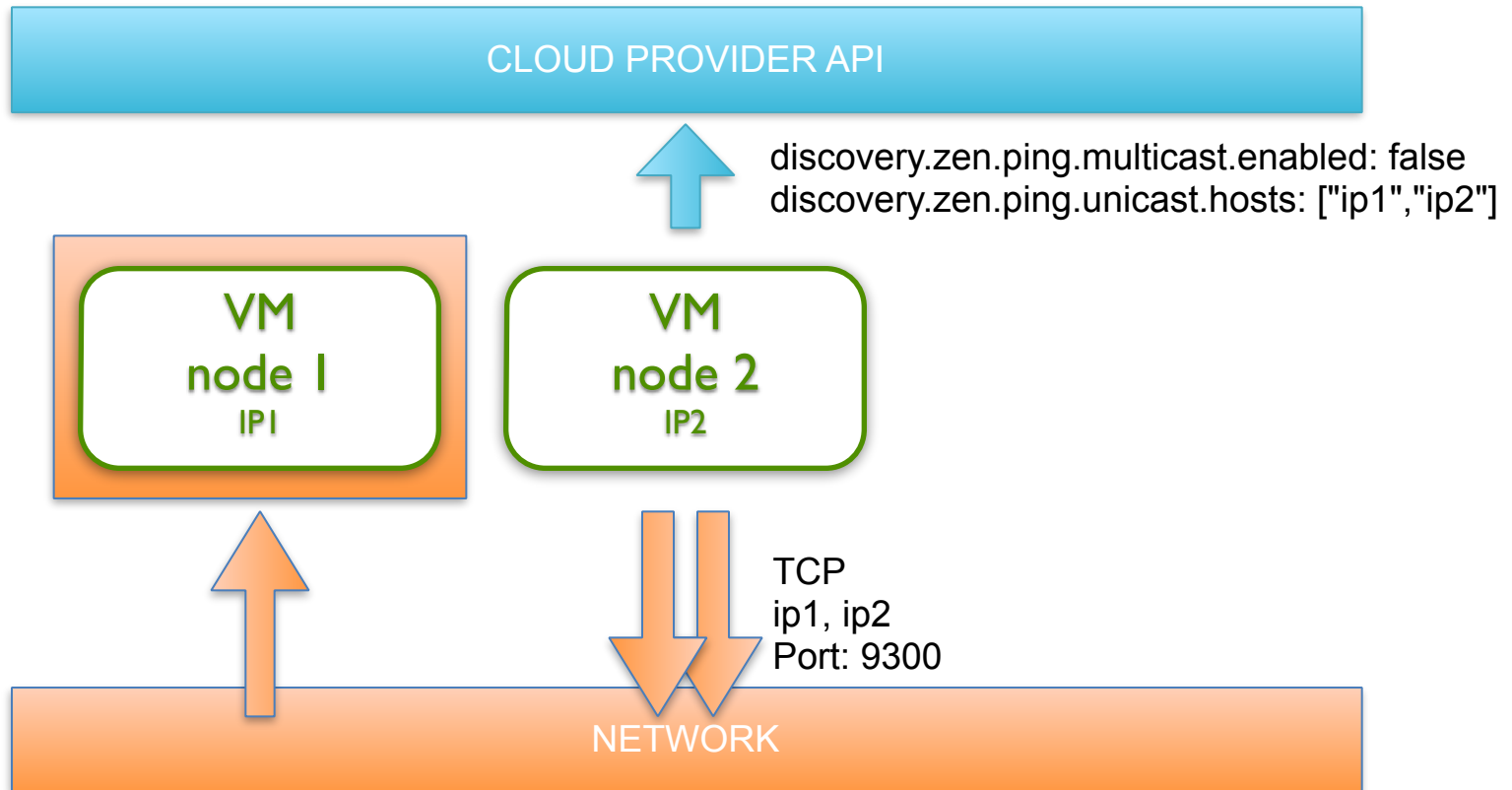
Discovery with cloud plugin



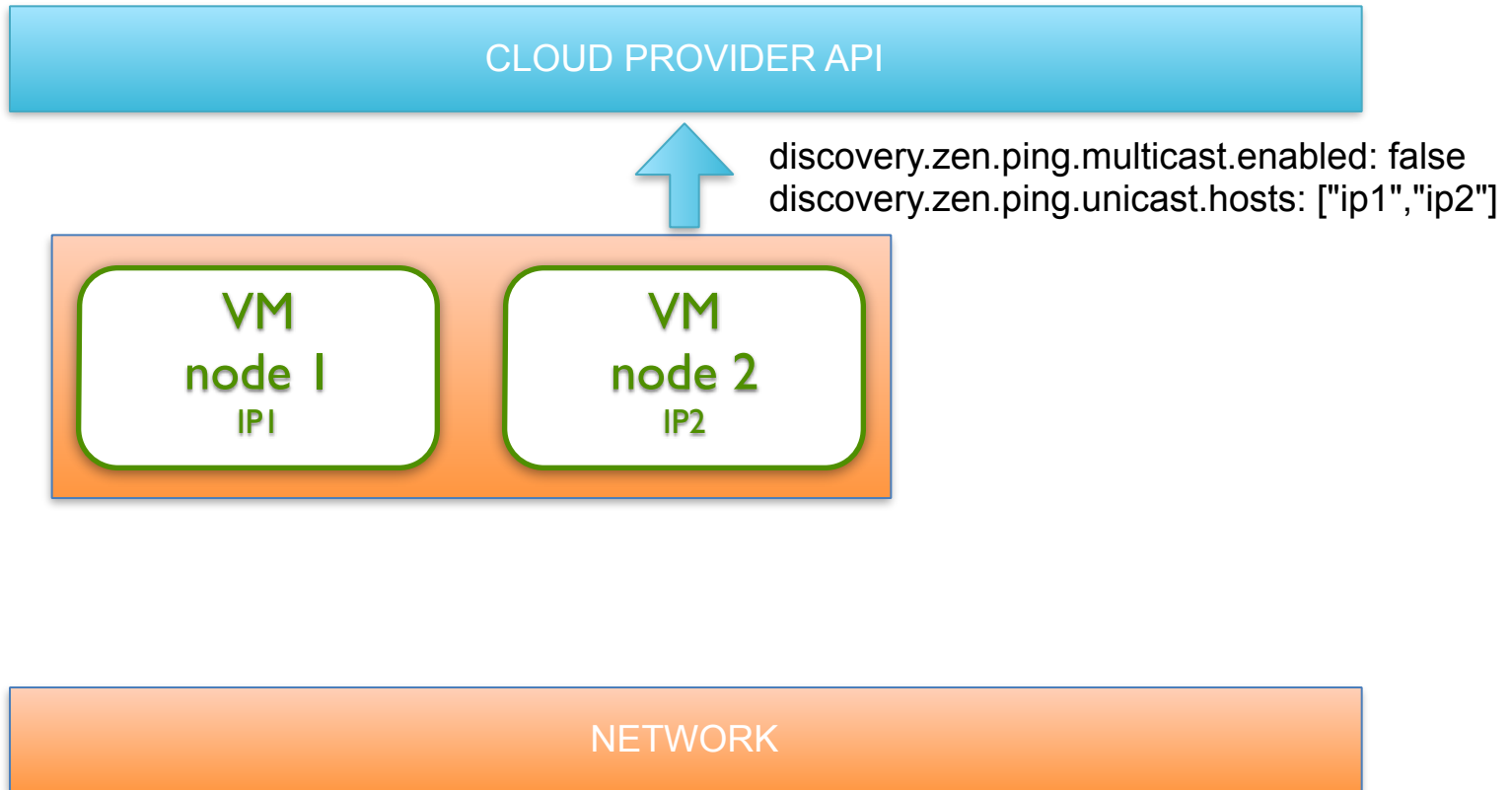
Discovery with cloud plugin



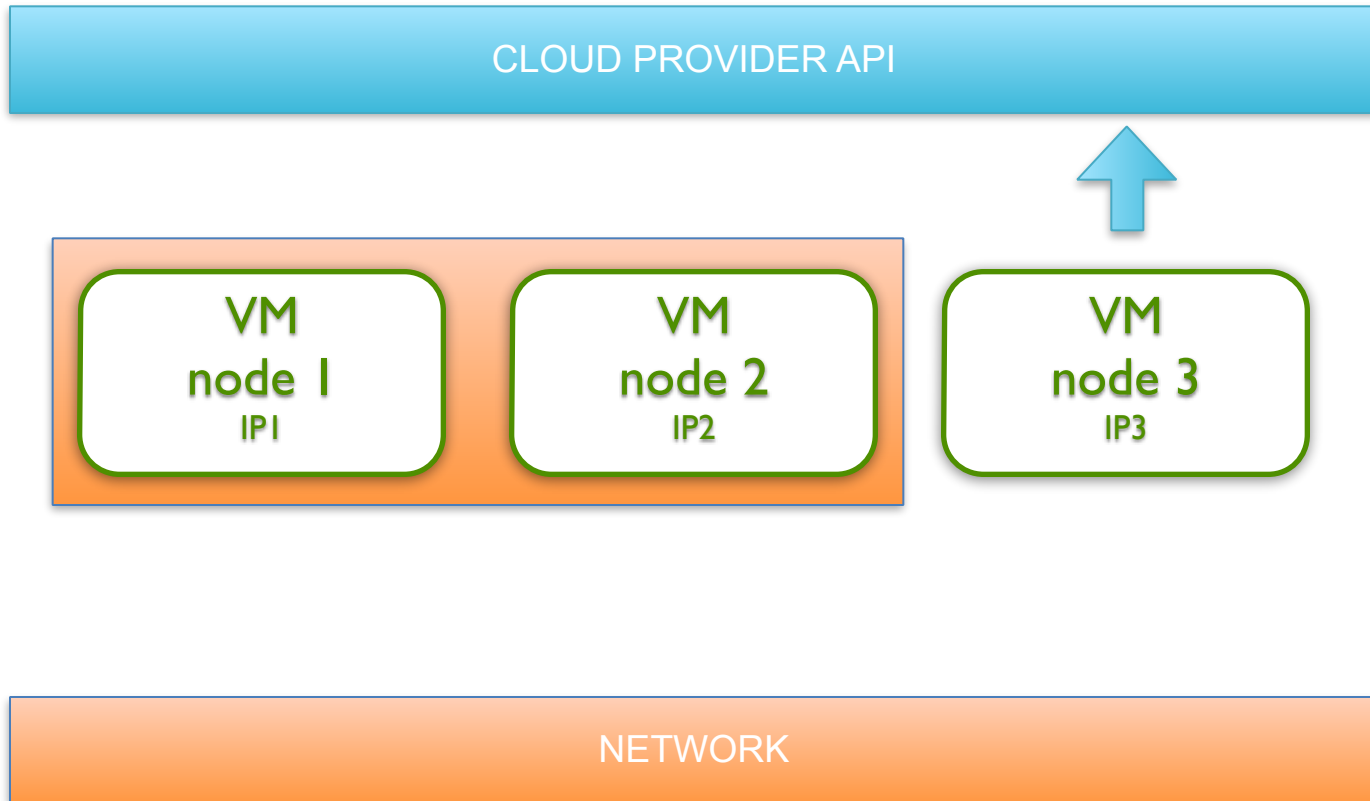
Discovery with cloud plugin



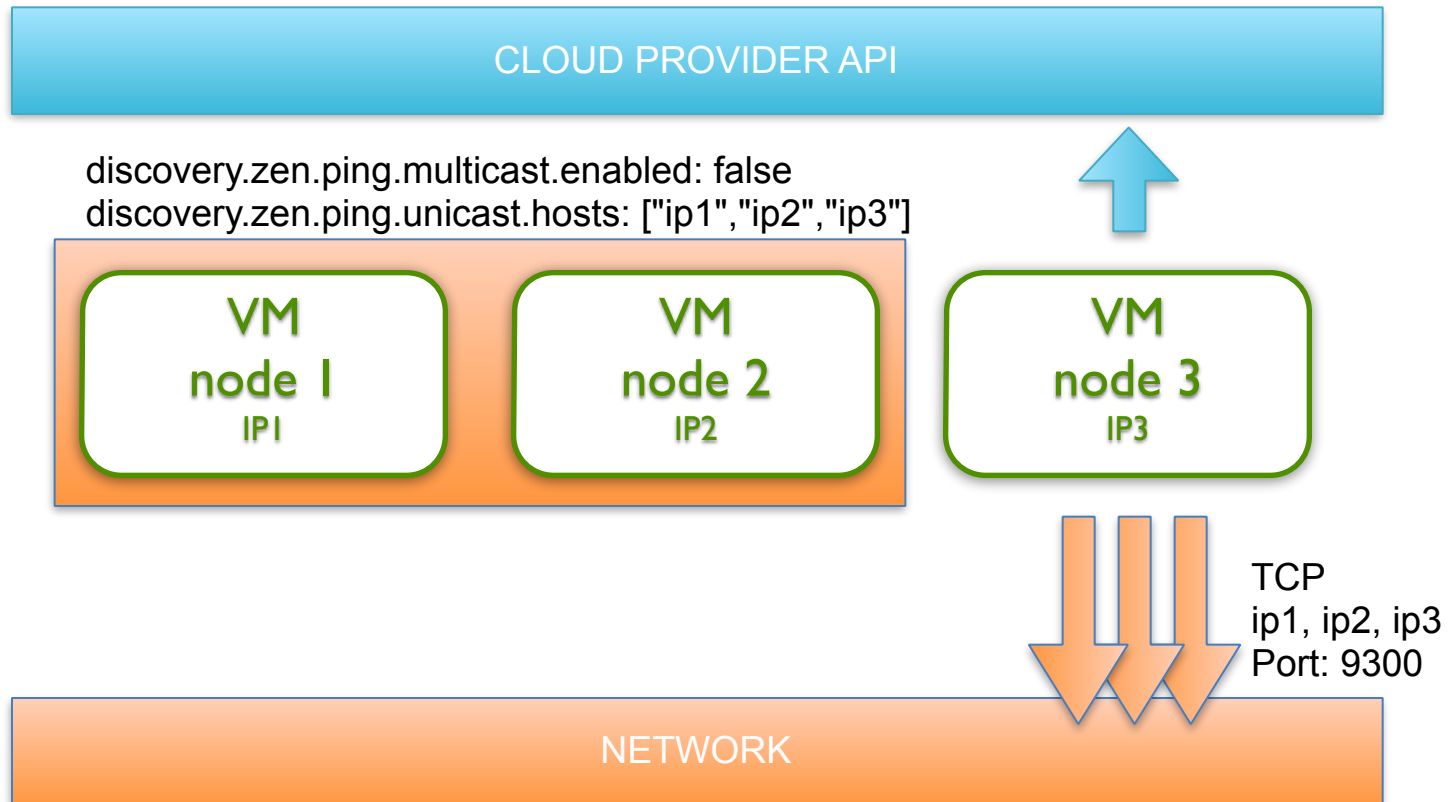
Discovery with cloud plugin



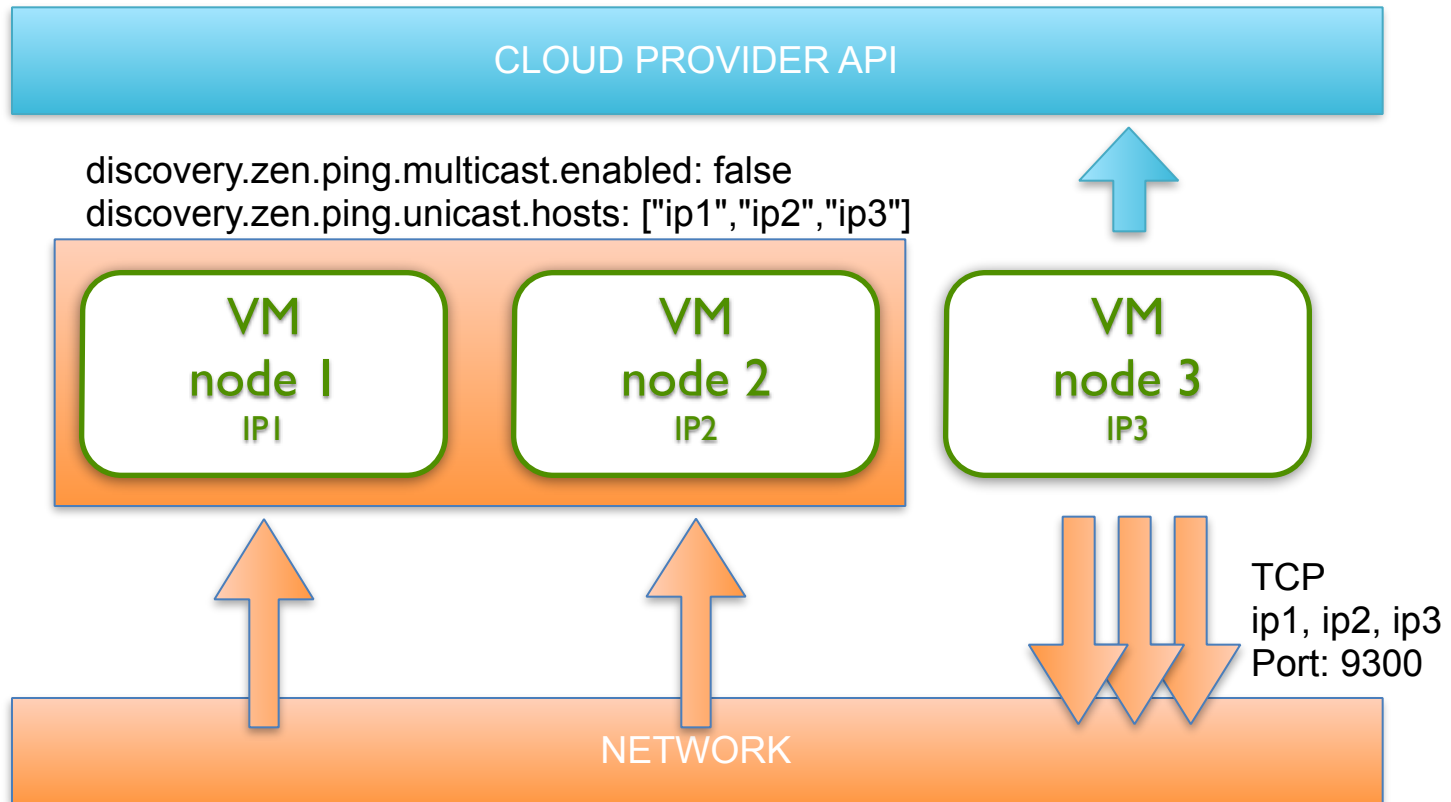
Discovery with cloud plugin



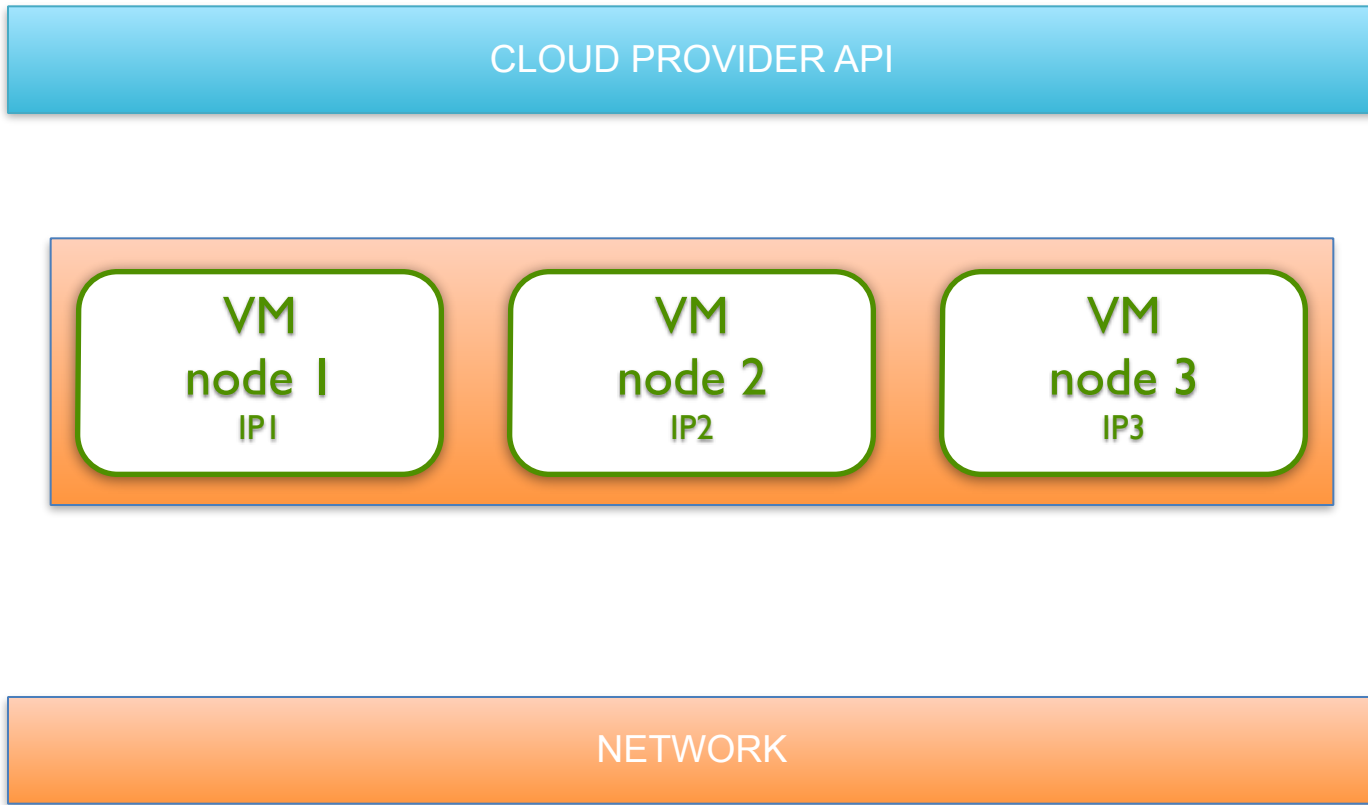
Discovery with cloud plugin



Discovery with cloud plugin



Discovery with cloud plugin



Discovery on Google Compute Engine



Google Cloud Platform Live

- Install gce plugin
- Update config/elasticsearch.yml

```
cloud:
  gce:
    project_id: es-cloud
    zone: europe-west1-a
discovery:
  type: gce
```

- Start elasticsearch

<https://github.com/elasticsearch/elasticsearch-cloud-gce>

Discovery on EC2



- Install aws plugin
- Update config/elasticsearch.yml

```
cloud:
  aws:
    access_key: AKVAIQBF2RECL7FJWGJQ
    secret_key: vExyMThREXeRMm/b/LRzEB8jWwvzQeXgjqMX+6br
  discovery:
    type: ec2
```

- Start elasticsearch

<https://github.com/elasticsearch/elasticsearch-cloud-aws>



- Install azure plugin
- Update config/elasticsearch.yml

```
cloud:
  azure:
    keystore: /path/to/keystore
    password: your_password_for_keystore
    subscription_id: your_azure_subscription_id
    service_name: your_azure_cloud_service_name
discovery:
  type: azure
```
- Start elasticsearch

<https://github.com/elasticsearch/elasticsearch-cloud-azure>



Photography by Marta Majewska

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Q&A Time

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