





North America 2024

Kubernetes at Scale: Practical Solutions for Enhanced CNI and Kubelet Performance

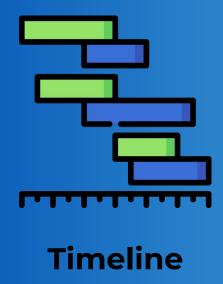


Bruno Gabriel da Silva Sr. Solutions Eng. @Sysdig



Henrique Santana Sr. Cloud Support Eng. @AWS

Disclaimer





There always something to change



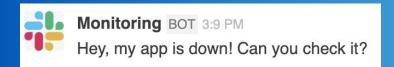


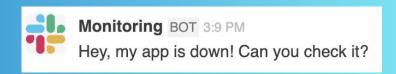
Scale Down

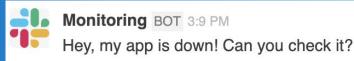


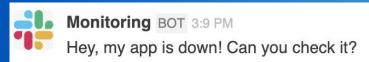
Validate & Deploy

Monday Morning...

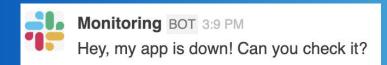


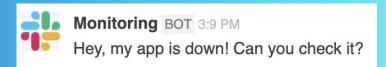












Monday Morning...



"msg":"timeout: failed to connect service \":50051\" within 5s"



Windows-Solution.sh



"Fixed"

Why?!



Checking...!





network: add cmd: failed to assign an IP address to container

Learn and Improve it!



```
(...)
"eventName": AssignPrivateIpAddresses
"errorCode": "Client.RequestLimitExceeded",
"errorMessage": "Request limit exceeded.",
"userAgent": "amazon-vpc-cni-k8s/ ..."
```

Throttling



Next Monday...







First things first



Keep Digging



ErrImagePull: pull QPS exceeded

Keep Digging



Unable to reach API Server (...)

Another Monday...



Lessons Learned

- Default Values are OK, until they are not
- 2 Don't assume there is only One Error
- Be aware of your Surroundings
- There is always Legacy somewhere
- 5 You can't Predict Everything

Useful URLs

- EKS logs collector
- API Throttling Dashboard
- AWS VPC CNI
- EKS Best practices
- Bruno's LinkedIn
- Henrique's LinkedIn









KubeCon CloudNativeCon

North America 2024