

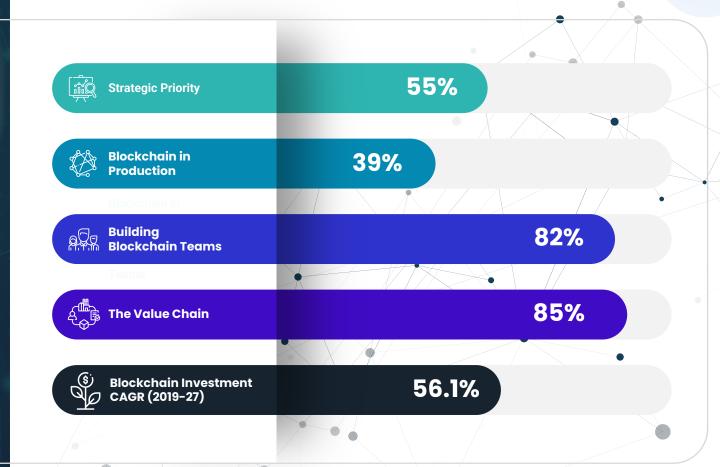
55%

of CIOs consider Blockchain as their #1 priority

# **Deloitte.**

83% of respondents indicated their companies will lose competitive advantage if they don't adopt Blockchain

# **BLOCKCHAIN TRENDS - FROM PROMISE TO REALITY**

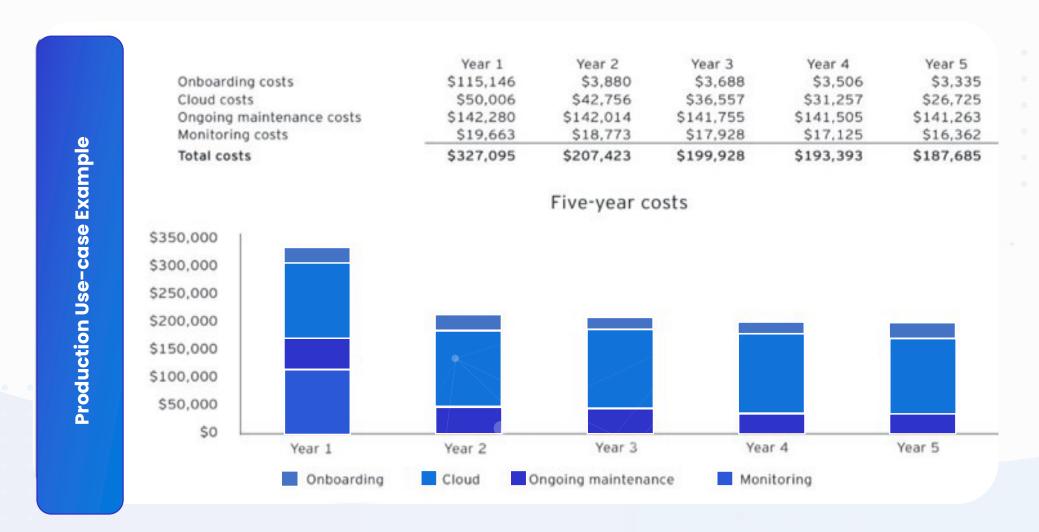


# **2** zeeve

- Decentralization is missing
- Time to Market.
- Cost of Setup and Ownership
- Complexity of Scaling Consortium Networks
- Complex to understand and adopt
- Lack of know-how and expertise
- Lack of standards for security and optimization

# Lets talk about challenges

# ... and again, never underestimate the costs



# What's needed - Blockchain Infra Automation

The automation should be for, - in-depth configurations of protocols, monitoring of node and chain health, easy smart-contract design and management tools etc.

Creating your consortium in few button clicks, without losing the decentralisation.

Decide your infrastructure with no compromise, your cloud or on-premise. Every stakeholder in your consortium gets to make their own decision.

Best in class security practices standard across all deployments.

Analytics and Monitoring which can scale with your decentralised deployments.

Control on costs with auto optimisations and scaling of the networks.



A LOW CODE

BLOCKCHAIN AS A SERVICE

ENTERPRISE PLATFORM







#### **Supports Multiple Blockchain Protocols**

100% Automated and No Code



#### **Heterogenous Cloud Deployments**

Supports all major cloud providers including Private Cloud and On-Premise



#### **Blockchain Analytic and Real time Monitoring**

Advance Analytics and Monitoring Alerts and Notifications



#### **Web Services for Faster DApp Development**

CI/CD Integrations to Services like IoT, Governance, Storage, Secure Vault etc >60%

Cost Savings >90%

Faster Time to Market

>15,000

Developers on Board



A structured platform approach to deliver operational excellence across Blockchain Networks and Decentralized Applications.

#### **Network and Security**

One Platform for all your needs



Multiple Cloud Provisioning

One Click Node Deployment

**Unified Dashboard** 

Node Security inbuilt

**Blockchain Integration** 

TEE as a Service

**Decentralized Storage** 

#### **Ops and Management**

100% Automation and DevOps



**Resource Monitoring** 

**Resource Optimization** 

Auto-scaling and healing

**Unified Dashboard** 

**Intelligent Analytics** 

**Network Visualizer** 

CI/CD Automation

Apps and Services
A complete toolkit



**GIT Integration** 

IoT as a Service

dApp Marketplace

Decentralized Governance

Key Secure Vault

**Asset Tokenization** 

Federated Learning



A Stack with Decentralization at Core



#### **Distributed Apps and Smart Contracts**

Blockchain & Other Peer to Peer Applications



Decentralized Storage



Secure Data Sharing



Distributed KYC



**Trusted Execution** 



Decentralized IoT



**Asset Tokenization** 



#### **Peer to Peer Protocol Layer**

Smart-contracts, Distributed Ledger, SFL

#### Zeeve

Secure Communication & Processing Stack

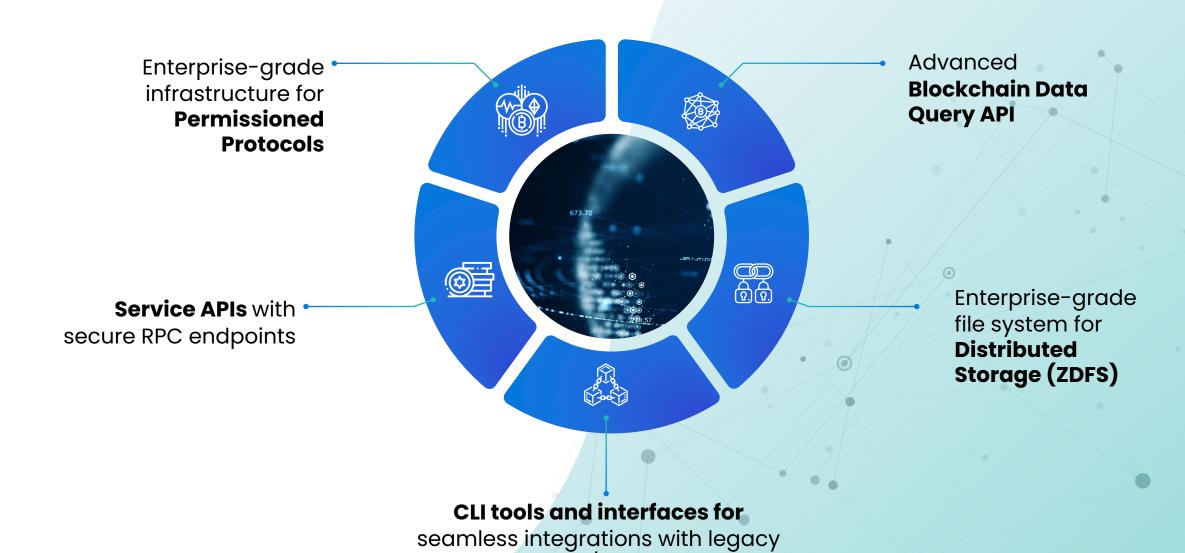
# **System Network Layer** TCP/IP

Hardware, Devices and Cloud

Intel, ARM

AWS, GCP, Azure, IBM, Digital Ocean

# **PLATFORM AND PRODUCTS**



CI/CD

## **LEARNING EVERY DAY**

**Zeeve BaaS Platform** is trusted by 15,000+ developers and 25+ Enterprises and Blockchain Consortiums

### **Early Traction & Customers**



























































#### TradeReboot - Trade Finance Consortium

- Category Trade Finance
- Blockchain Protocol HyperLedger Fabric 2.2
- Cloud AWS and GCP
- Network Size 17 Nodes



#### Challenges

- Identify the most suitable Blockchain protocol to achieve the business goals.
- Enterprise grade network that has high availability, security and performance.
- Cloud agnostic deployment of nodes so that third party stakeholders are not locked to a single cloud service provider.
- Continuous monitoring of the deployed network as a service to reduce upfront and ongoing costs.
- An enterprise level support the Blockchain network.



#### **Zeeve Approach**

- AWS cloud architecture including node application instances, RDS for off-chain database, security rules, load balancers and the backup plan.
- Build the Trade Finance DaApp and Smart Contracts
- Governance smart contract to govern the rules of the consortium
- Deployment of HyperLedger Fabric 2.2 on Kubernetes cluster on AWS..
- Enabled the invitation module to on-board the initial users on the platform.

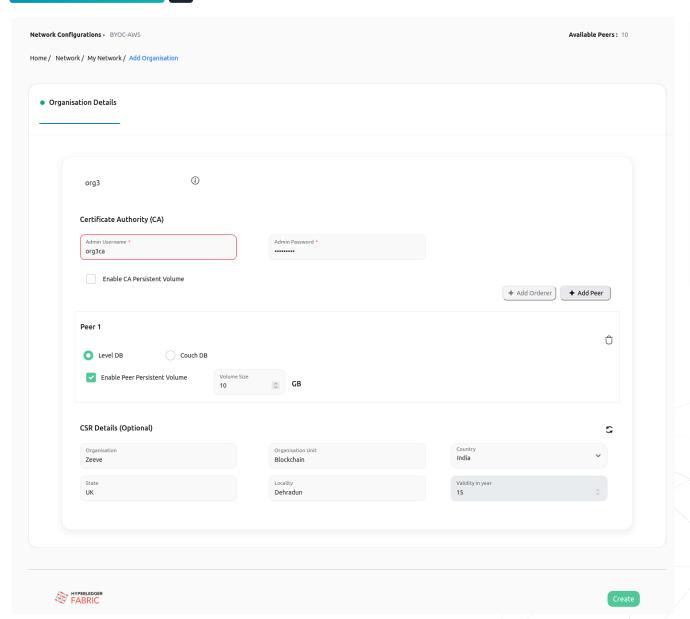


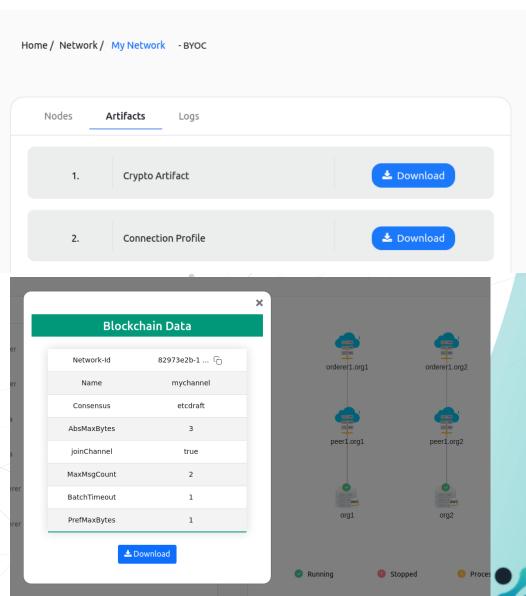
#### **Results**

- Seamless Onboarding Zeeve helped quick and hassle-free onboarding of users who wanted to host their own nodes.
- Cost Saving of ~45% –Zeeve helped optimized setting up of the nodes and network instances.
- Faster time to market by ~80% Zeeve accomplished the complex deployment of trade finance network of Hyperledger Fabric on AWS in less than 30 minutes.
- Proactive Monitoring Zeeve features advance analytics and proactive monitoring of Blockchain and cloud resources..
- 24/7 Support Zeeve provided DevOps experts and Blockchain engineers for initial deployment architecture and ongoing management of the network.



# **CREATE AND SCALE NETWORKS**





# **NETWORK TOPOLOGY**





Workspace

Marketplace

Networks

Node Analytics
Coming Soon

ıl Cloud

#### RECENT

- Fabric Networks
- Corda Networks

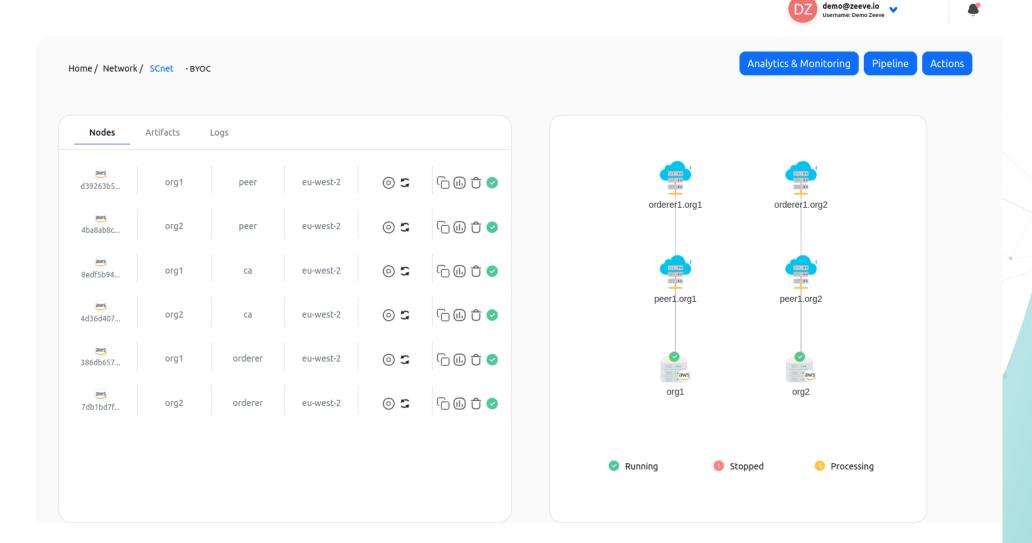


#### OTHER

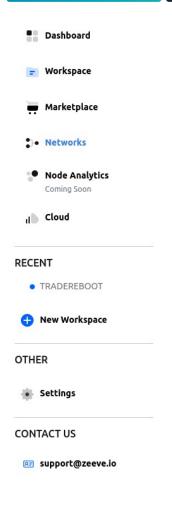
Settings

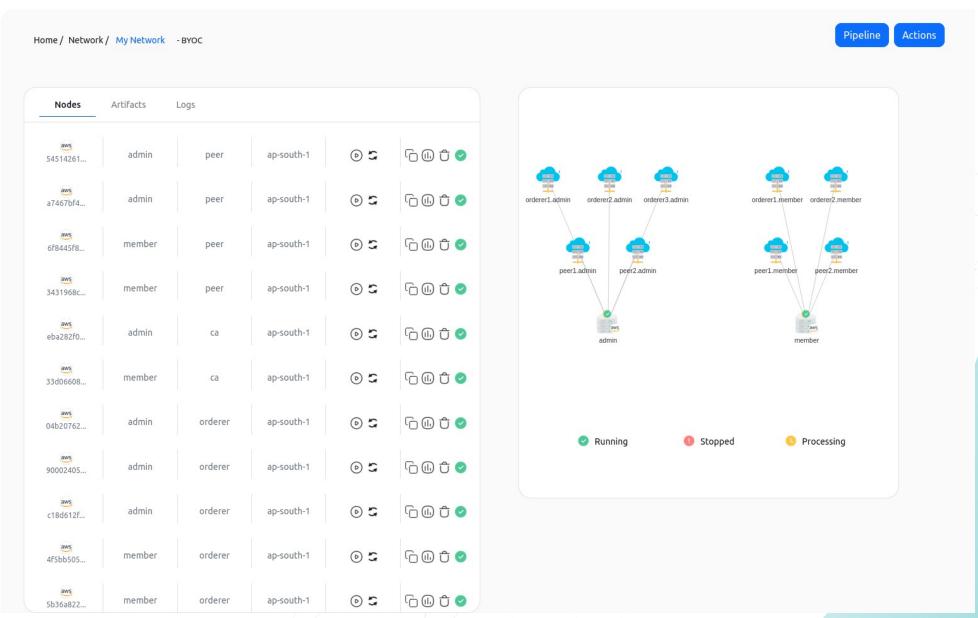
CONTACT US

support@zeeve.io

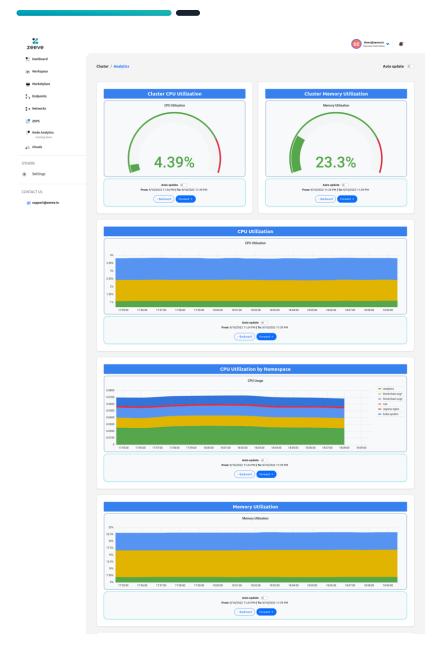


# **AS FLEXIBLE AS IT GETS**



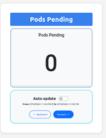


# **STAY IN COTROL**





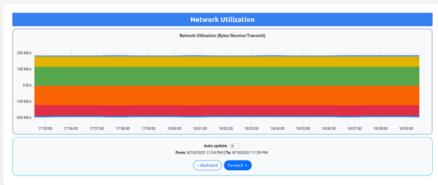














# **Zeeve CLI, CD PIPELINES**

#### Zeeve continous deployment interface

Build/deploy your pipelines. For more Information read the docs

**₩**Pipelines

Pipeline	Status	Total Jobs	Action
fbd089ae-c725-409d-a935-1c20c8ed99a6		[JobID : ddc664a1-9330-422b-b0df-bb8be063dd07]	
a8e88312-9877-48b0-94bc-8bf9895936c5		[JobID : 30a6013c-1bb3-44b9-bb0d-5ced974bd184]	<u>අ</u> අ
		•	
9af5f4cd-9c5e-40ba-a7c4-61c669ef2c13		[JobiD : c9079b63-15ce-484e-820e-a07f05782aa2 , JobiD : 5fd116ec-6dd8-415c-89b5-3802d256b887]	ď
ccff75e9-6b97-442c-b92c-8483838eb2ad	•	[JobID : da521c37-eaa7-40f8-82e3-eb92dd63315c]	<b>d</b>
63effbe0-ce83-411d-8e92-8bf0155e74ff		[JobID: 240cdde6-b56b-4880-9823-a67815e4e6c0]	ď
ddaa2f32-4028-4c27-90a0-85e20e041faf		[JobID : 29322359-bb38-4525-994b-d9a8ef57d707 , JobID : 81138375-4752-4f2f-956c-b2a0588cafbe]	ď
c7d53736-d357-4825-a447-097aebd1d580		[JobID: 4babf03a-7f78-4e1c-a780-0d9494c9b653]	ď
ddcdab40-050c-46b8-b641-1eaca9c03068		[JobID : ef009178-e124-40db-9771-24b96af93acf]	ď
1f4ac385-4606-463e-a377-f62b00a13ca0		[JobID: 0a955d22-1858-448a-a980-01b410d7d5bc]	ď
736495b8-cf23-4284-b7e6-06e57c1eaa47		[JobID: 983ae0dc-9405-458c-b313-15bc7eeea0ab, JobID: 2e76cb13-81bc-48e7-9e89-04265d5e6110]	ď
b07637ce-65b4-4a46-b1d1-485158b467a2		[JobID: f9112494-7740-4331-a846-8c39f8930967]	ď
884e2005-c01b-49a0-b9ef-ee38118b7ee4		[JobID: 766fe4b6-23a9-4cc8-95eb-34a908f31199]	ď
b1d4cdf6-2b2c-49ff-a785-e7f1fcb94198		[JobID: 8cb07e84-da65-41ba-ab41-9f28ae78ef09]	ď
94c45359-a4fe-4c9c-932e-e6b97e1393c9		[JobID: 8a3b0c44-3069-4c79-ad43-c464a23f19b8]	ď
60726095-8fe2-4795-b39f-4f0fcea43c2f		[JobID: 8c95826b-b7f2-4ae8-aa82-98385a1c726c]	ď
f6aa88e6-0a1e-496a-ae94-f928d2bac661		[JobID: 82fe72a4-d7a4-4cc3-909d-f40f8c02af7e]	ď
ecd02c85-649c-410e-80b0-ee5bc32fefff		[JobID: d4582427-a214-4fb2-8a16-365384b31b35]	ď
c096b1bd-4148-46ce-b64c-45c3501435a1		[JobID: 30f7b75d-1e22-456c-a8dc-5671a6d9f808, JobID: dee07244-7112-4d32-989d-e2a04327c808]	ď
d2fcd914-a3d9-4925-b4da-d675860ac2d3		[JobID: 371eff44-9244-41f0-bea8-5072929f3021, JobID: af0ea270-79bc-4d5f-be8a-0d2b583a5dc7]	ď
12517394-e10b-4898-be87-304ff1610c83		[JobID: a2bbaa3b-1725-4836-9576-7559bb18c6fc]	ď
9ed48147-cd62-454e-a541-822e69173460		[JobID: 5a520b42-ca75-4c74-8c56-a4eb68469c5b]	ď
8a020fce-a745-482d-a1c2-6e6cfa4a80cc		[JobID: ee43c976-aff9-402f-afdc-2409e16867eb]	ď
e1234e5a-3d1f-4518-9ecc-ad802aeae741		[JobID: b3572b83-f27e-4692-a342-6e0f05e8eab0]	ď
4336cbb4-58d2-407c-9c3d-4415f42f0016		[JobID: c305f8e5-1aa7-413b-a65a-5daecf29d838]	ď
49f40cae-45bd-466b-a9ed-08f1f99a9cd3		[JobID : 32d07895-dcb7-42d6-8cbe-2e8a5af33f55]	ď
366e9f3a-7582-45fa-9766-2b8c94a42795		[JobID : c3cc53f8-2223-438a-8f53-a76ef58ad8bc]	
8a2a7085-83e6-42b1-9025-2773ad1eb961		[JobID : c23c5265-d94d-44b2-986b-d6fab337d7b3]	
c1458696-71b9-4362-b79b-dcbc42107043		[JobID : 9f005b04-8cef-4d95-bc63-42cc1f286653]	<u> </u>
26eaa64d-5acd-4a0c-807a-7c61c08a8b13		[JobID : 422858ae-6f8b-4eae-a0e2-9dc48f6b9eaa]	ď
4ce0f34c-3401-424b-8caf-861743fd1443		[JobID : 6abfb616-0097-4ed4-93a8-2fce4c10bd4c]	ď
	<u> </u>	• • • • • • • • • • • • • • • • • • • •	-

```
lakshayg@ubuntu:~$ zeeve fabric chaincode --help
Usage: zeeve fabric chaincode [options] [command]
Options:
                    display help for command
Commands:
  package [options]
  install [options]
  approve [options]
  commit [options]
  deploy [options]
                    display help for command
  help [command]
lakshayg@ubuntu:~$ zeeve fabric chaincode install --help
Usage: zeeve fabric chaincode install [options]
Options:
  -n, --network-id <network-id> Id of the Network
                                 chaincode name
  -v, --version <version>
                                 chaincode version
  -o, --org <org>
                                 chaincode organisation
  -p, --peer-urls <peer-urls...> chaincode peer urls
                                 display help for command
  -h, --help
lakshayg@ubuntu:~$ zeeve fabric chaincode commit --help
Usage: zeeve fabric chaincode commit [options]
Options:
  -n.v--network-id <network-id>
                                   Id of the Network
  -cc, --chaincode <chaincode>
                                   chaincode name
  -v, --version <version>
                                   chaincode version
                                   chaincode organisation
  -o, --orgs <org...>
  -p, --peer-urls <peer-urls...>
                                   chaincode peer urls
                                   channel name to approve chaincode
  -ia, --init-args <init-args...>
                                  Init method arguments ex; "marble1","blue","35","tom"
  -im, --init-method <init-method > Init method name i.e, "init" or "initMarbles"
  -h, --help
                                   display help for command
lakshayg@ubuntu:~$
```

# **WHAT'S COMING**

- Add Organisation on System Channel, Multi-Tenant Organisation, Auto Certificate Renewal
- Allow Channel Policy Updates
- Private Data Collections Support
- HSM Based Key Management
- DMZ Based Security Architecture and High Availability Setup of Nodes
- Channel Management Add, Update, Delete, Application & Node Logs
- Scaling Resources in Clusters
- Allow Private Node Connections with AWS Backbone
- Managed Node Deployment









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