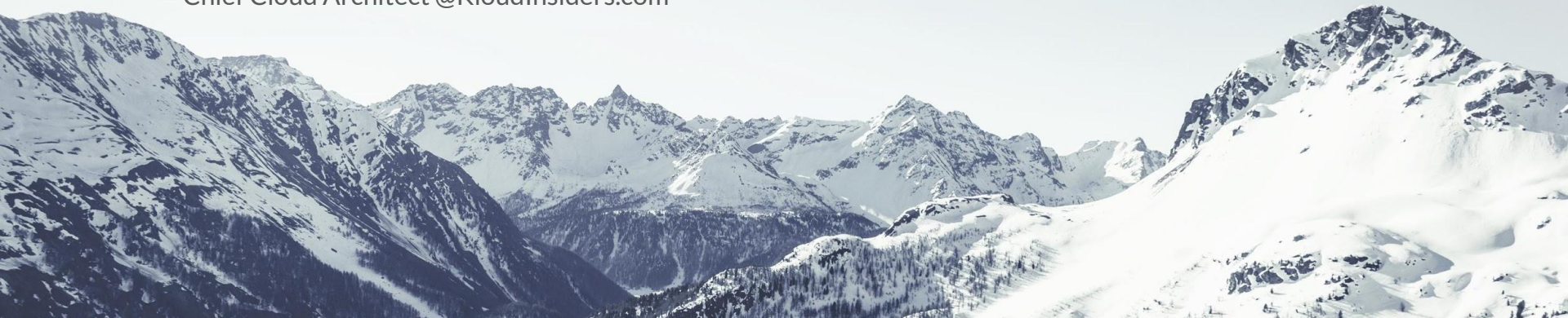




Cloud Hosting Automation Accelerator 1.0

Uma Uma Shankar
Chief Cloud Architect @KloudInsiders.com



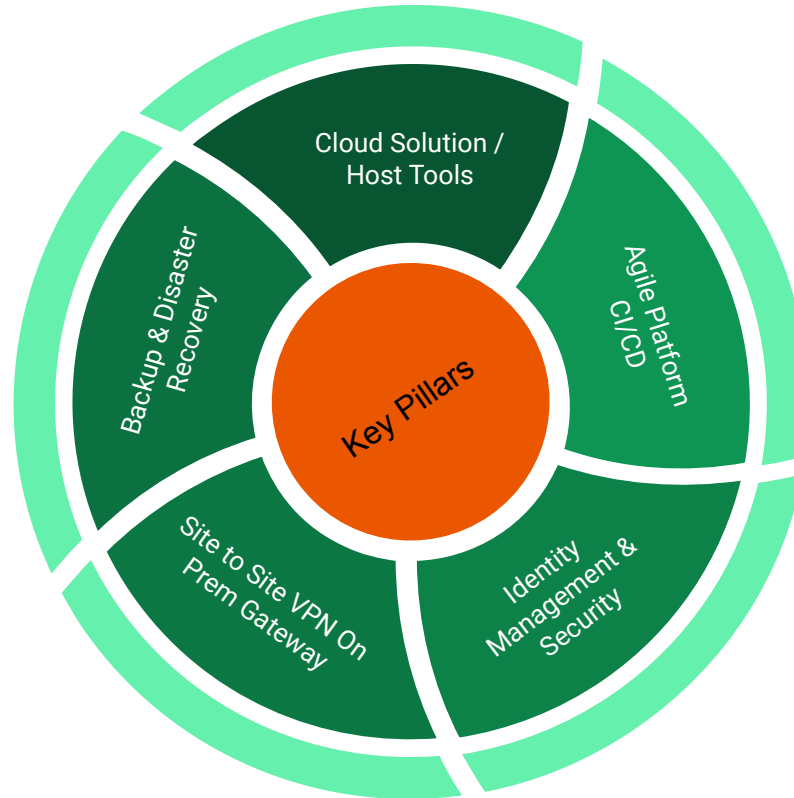
TOC

Automation Accelerator Key Pillars

Azure Architecture Landing Zone

Factory Deliverables

KloudInsiders Automation Accelerator 1.0 Key Pillars



KloudInsiders Automation Accelerator 1.0 Key Pillars

Cloud Solution



Azure / AWS Infrastructure as a Service
Hosted Architecture Solution

Future Proof, Highly Scalable, Efficient,
High Availability Cloud Ready Solution

Hub and Spoke VNET/VPC Landing Zone
Architecture

Agile Platform / CI-CD



Infrastructure as a Code Terraform
Automaton with Policies

DevOps Pipeline for Continuous
Integration and Deployment

KloudInsiders Automation Accelerator 1.0 Key Pillars

Cloud OS Images



Azure VM or AWS EC2 Instance with Windows 2016 or 2019 Images

Azure VM or AWS EC2 Instance with Linux CentOS or Ubuntu or RedHat Images

Azure VM or AWS EC2 Instance with Windows SQL Server Standard / Enterprise Image

Identity Management

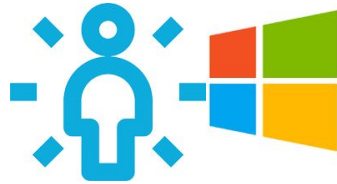


Azure VM or AWS EC2 Instance Active Directory Hub Layout Hosted Solution

Azure VM or AWS EC2 Instance Active Directory Domain Controller Hub Layout Hosted Solution

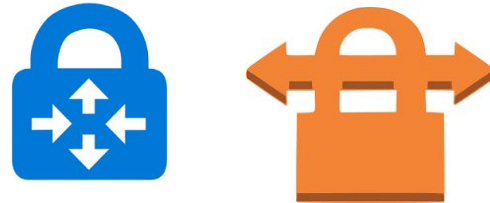
KloudInsiders Automation Accelerator 1.0 Key Pillars

Gateway JumpBox



Azure VM or AWS EC2 Instance with
Windows 2016 Image JumpBox

Site to Site VPN On-Prem



Azure or AWS Site to Site VPN
Gateway for On-Premise Connectivity

Configure Local Gateway and VPN
Gateway with on-prem Data Center

KloudInsiders Automation Accelerator 1.0 Key Pillars

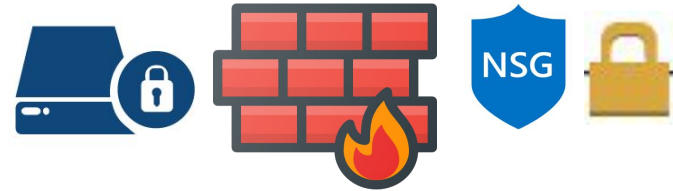
Application Host Tools



Azure and AWS Windows Image with added features .NET Framework and IIS will be enabled thru automation

Azure and AWS Linux Image with added features Java and TomCat will be enabled thru automation

Security



All Disks will be Encrypted (Synchronized and Asynchronized Encryption)

Secure Protocol and Connection between Layers (https, sftp, etc)

Firewall, Security Groups, Azure Key Vault or AWS Key Store

KloudInsiders Automation Accelerator 1.0 Key Pillars

Backup & Disaster Recovery



Azure and AWS Backup Policy and Schedule

Full Backup (Hot, Cold and Archive) and Disaster Recovery Architecture Solution

Insights & Operation Manager



Amazon
CloudWatch



Application Insights and AWS Cloud Watch to Monitor

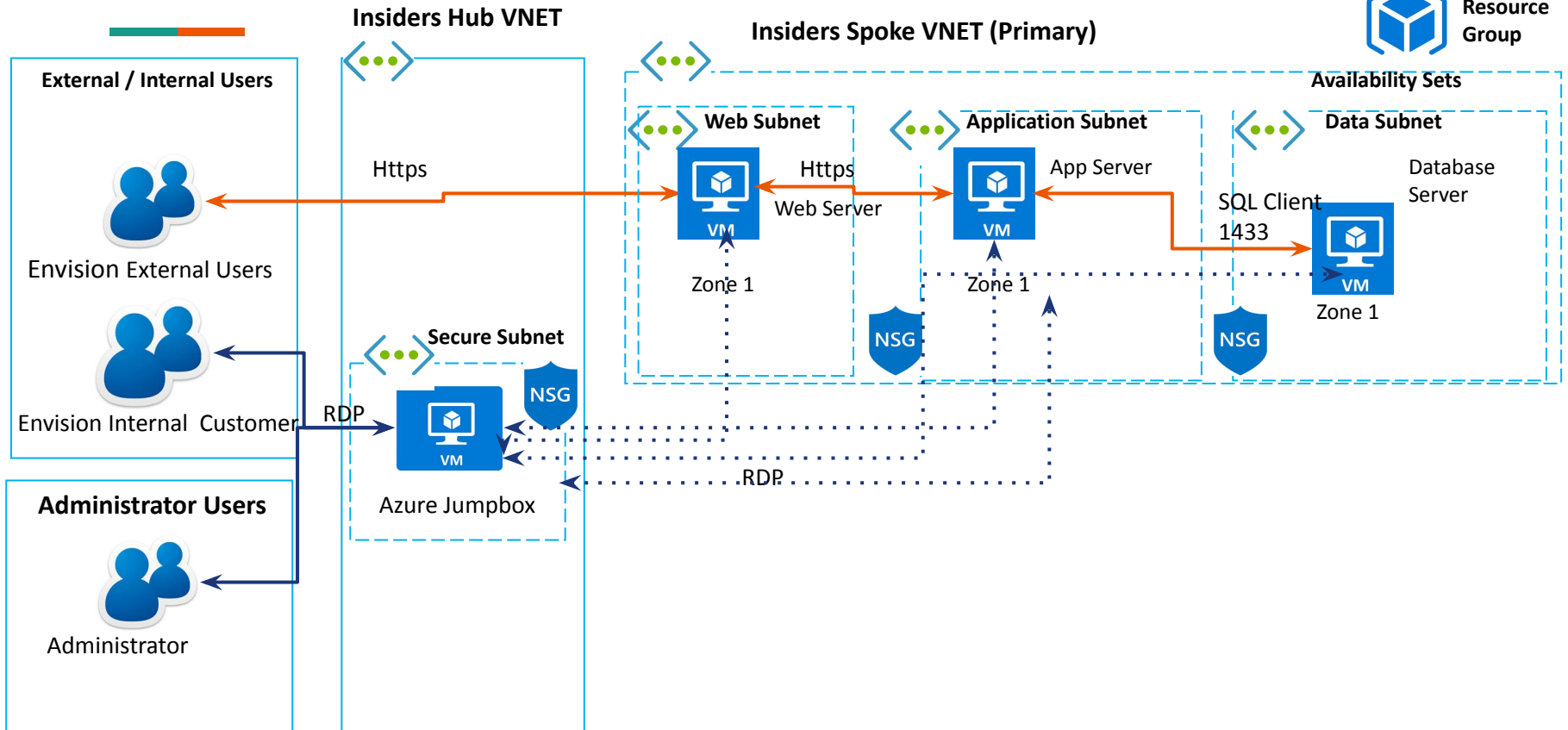
Azure and AWS Operation Manager and Update Patch Management



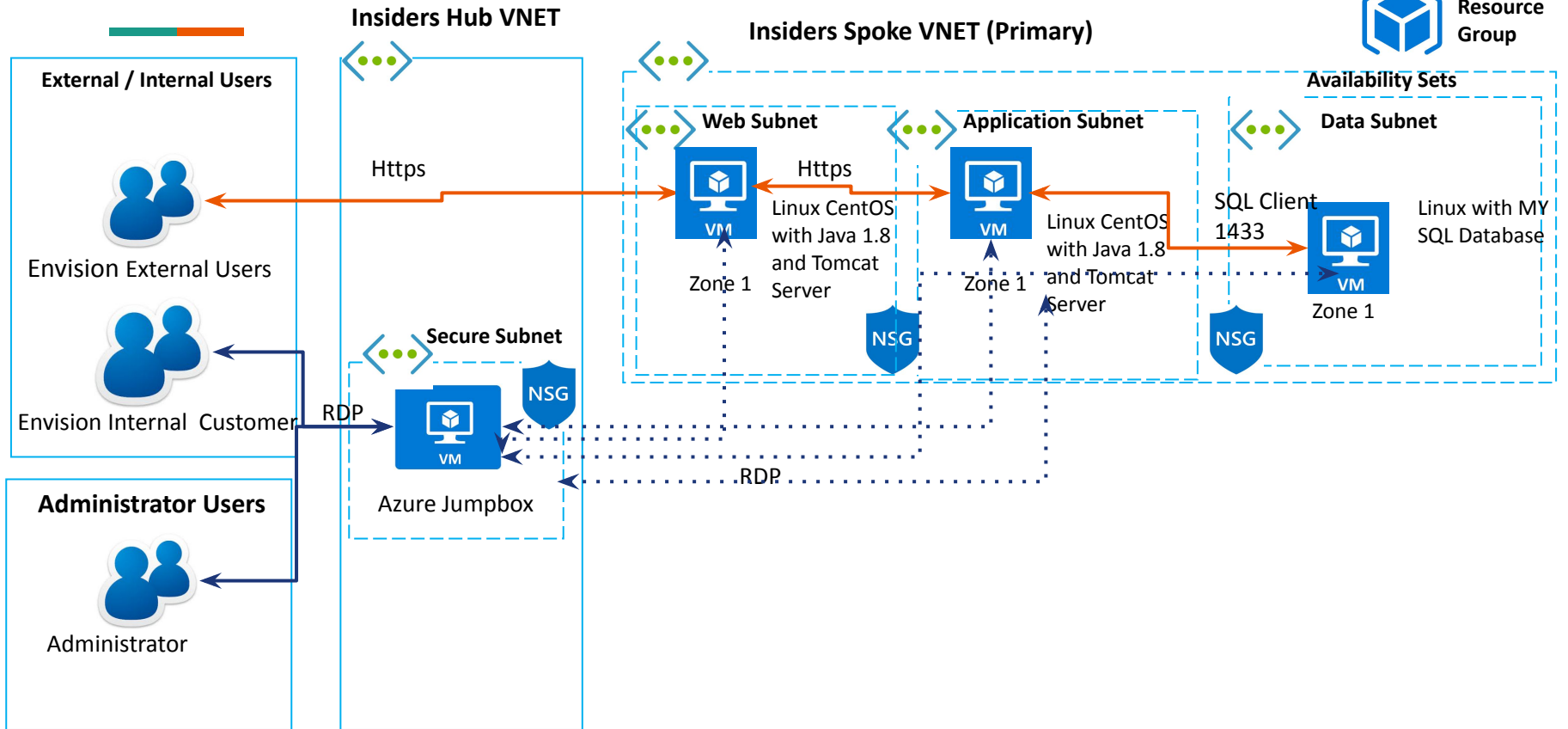
Azure and AWS Architecture with Accelerator 1.0

KloudInsiders Hosting Automation Accelerator 1.0 Azure and AWS Architecture

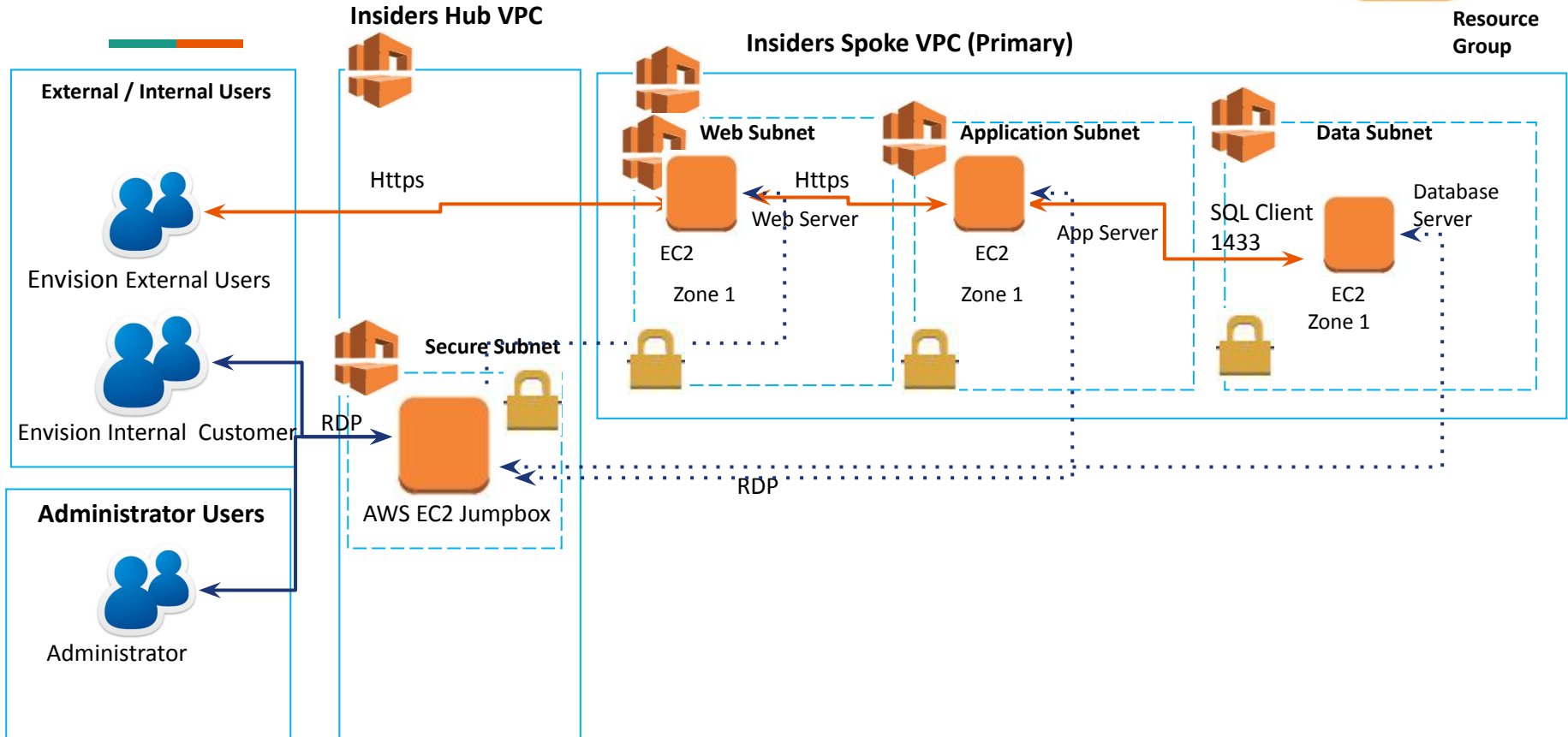
KloudInsiders Hosting Accelerator 1.0 Azure Architecture Landing Zone



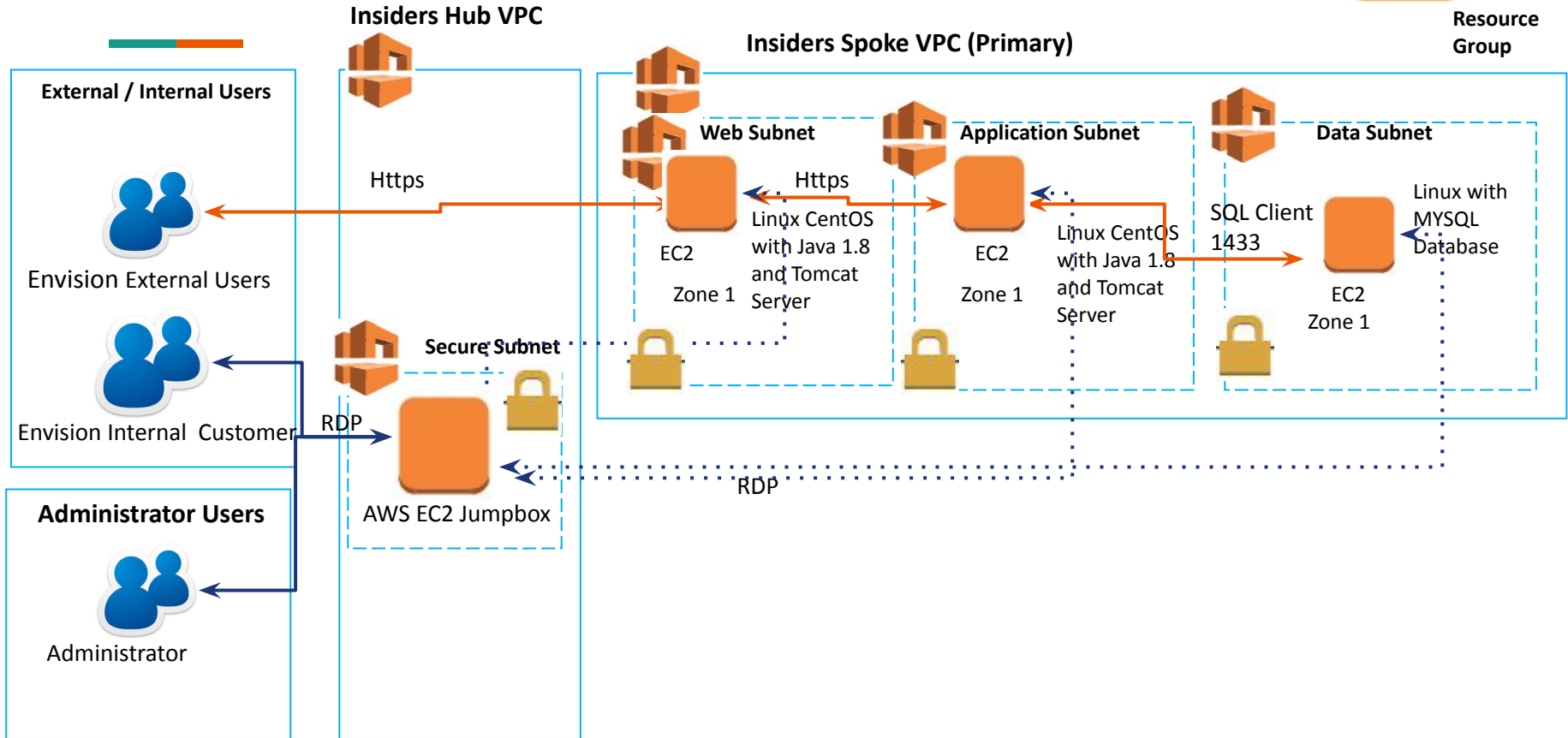
KloudInsiders Hosting Accelerator 1.0 Azure Architecture Landing Zone



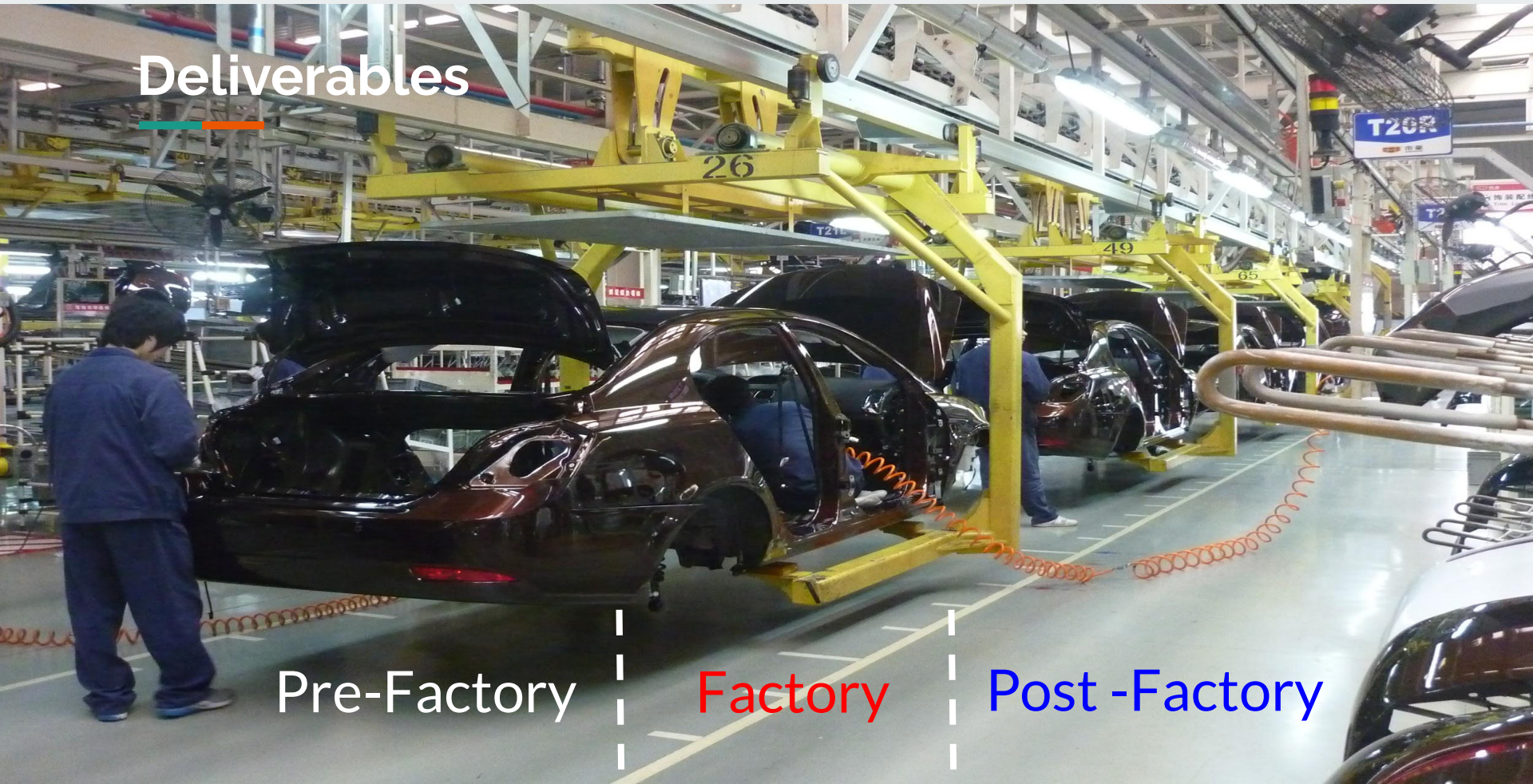
KloudInsiders Hosting Accelerator 1.0 AWS Architecture Landing Zone



KloudInsiders Hosting Accelerator 1.0 AWS Architecture Landing Zone



Deliverables



Pre-Factory

Factory

Post -Factory

Web / Desktop Assembly Line Deliverables



Pre-Factory

- Detail assessment of Current Web / Desktop Application
- Prepare and deliver Detail Web / Desktop Software Architecture Document
- Prepare and deliver BCP and Disaster Recovery Document
- Define Azure Stack Size for Customer Requirements
- Get Azure Portal and Subscription Access

Factory

- Build Hub and Spoke VNET and Subnet Layout with KloudInsiders Hosting Accelerator 1.0 based on Stack Size
- Work with Web / Desktop Product team to install the application and run Database Master and Reference scripts for Non Prod
- Smoke Test and Run Function Test for Non Prod
- Sign Off for Non Prod

Post-Factory

- Promote Non Prod Scripts to Prod Subscription using KloudInsiders Hosting Accelerator 1.0
- Web/Desktop Product Team to install the application and run database Master and Reference Script for Prod
- Smoke Test Prod
- Sign off - Live Prod



Chief Architect

Uma Uma Shankar

20 Years of Industry Experience and has a proven track record of building strong software experience in Architecture
10 Years of Hands-On / Implementation experience on Azure Cloud Services (Infrastructure as a Services, Platform as a Services and Software as a Services).



Thank you.

