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Azure (CAF) Landing zones

https://www.birlasoft.com/services/digital/cloud

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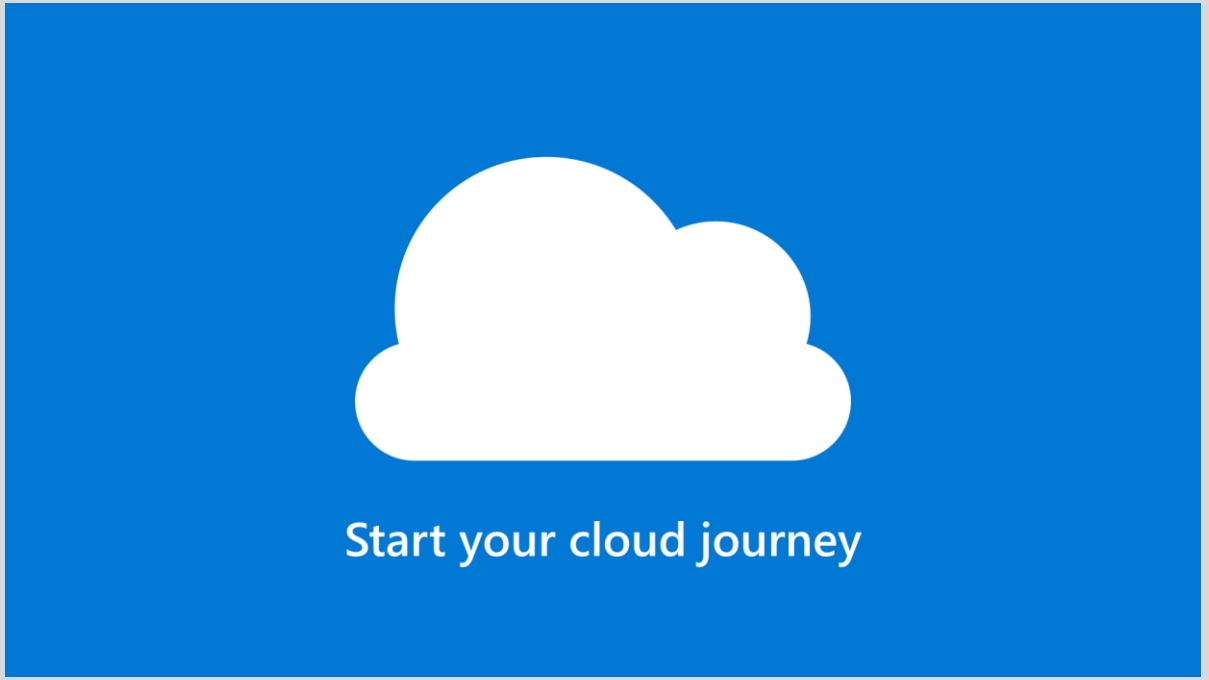
Cloud adoption challenge

One of the challenges with adopting cloud is knowing where to start. A lot of customers are not looking at building the landing zone; they need before deploying their solution.



CHALLENGES

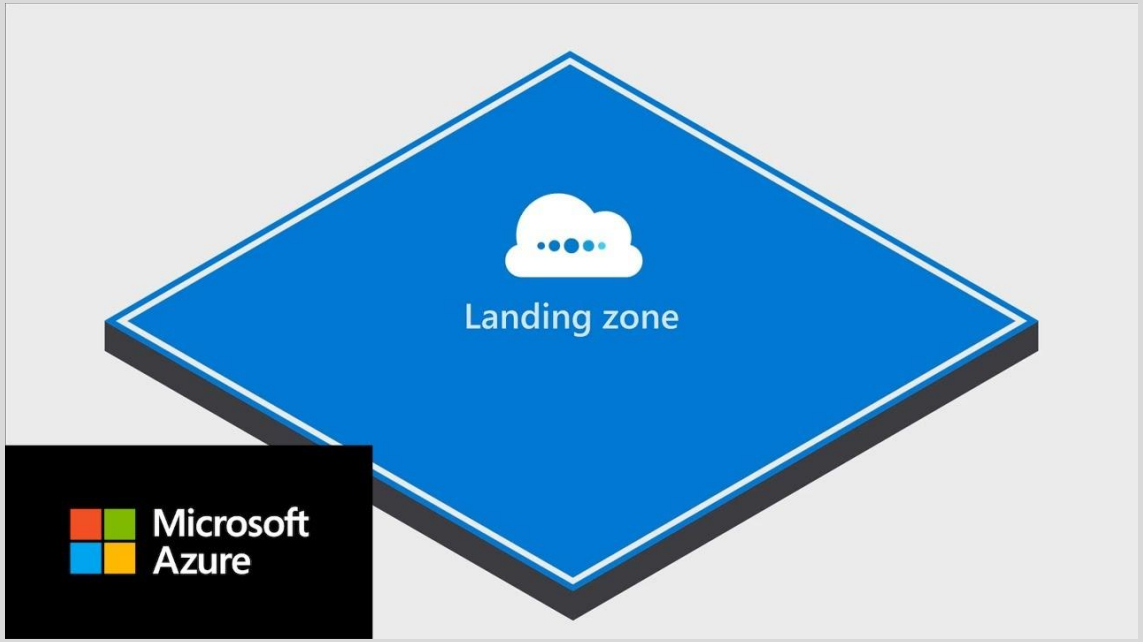
- Lack of consistency in resource naming, scaling and role-based access control.
- Spending more and more time on deploying and managing resources.
- Non-Compliance: think of regulatory compliance.
- Latency issues: Resources deployed within the same region.
- Cost Optimization: deploying oversized or unnecessary resources which can have a significant financial impact.

IDEAL SOLUTION

- Azure Blueprints and pipelines to lower the effort and increase the chances of successful governance on Azure.
- Leverage Birlasoft's library of artifacts and personalized automation templates to deploy infrastructure.

DESIRED OUTCOMES

- Reduced the manual efforts to provision the different subscription environment on cloud i.e., non-production and production.
- Automated script-based deployment
- Facilitate efficiency improvement.
- Control over Cost, Security, Risk
- Personalized, Focused, Actionable dashboards



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Landing Zones Framework

Birlasoft Landing zones are tightly coupled to Microsoft's Cloud Adoption Framework, which helps organizations make the proper governance, strategy and security decisions when migrating to Azure.

BIRLASOFT LANDING ZONE

- Birlasoft offer Terraform based cloud automation framework.
- Reusable and quick configure your cloud environments i.e., prod and non-prod.
- It simplifies the deployment of landing zones within Azure while also providing advanced features to compensate for real-world scenarios, all while maintaining CAF foundational principles.

KEY SETUPS

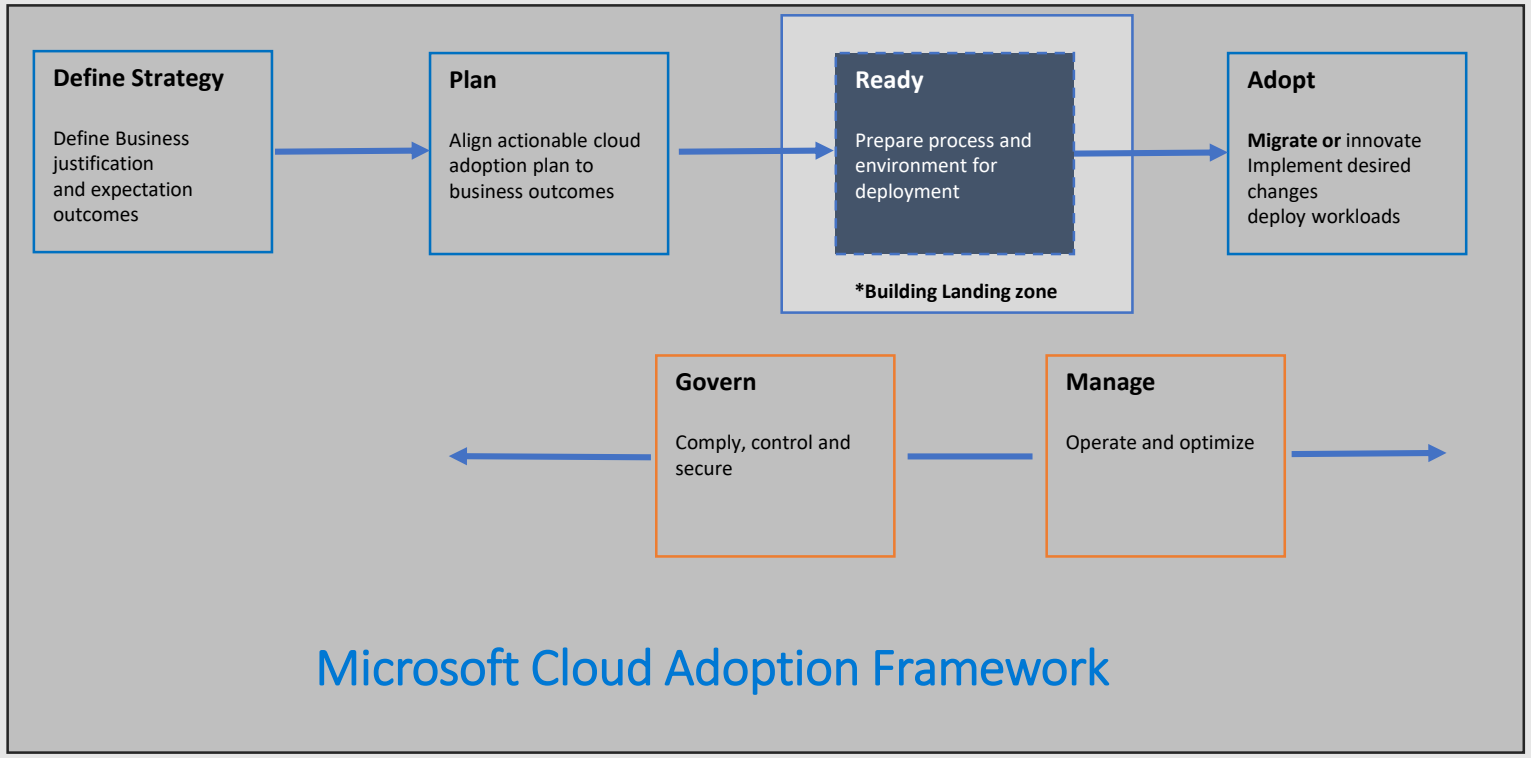
- Tagging Strategy
- Automation Strategy
- Organizations Master Account
- Security Account
- Shared Service Account
- Developer Sandbox Accounts

KEY FEATURES

- Automate Landing Zones with best practice blueprints
- Built-in Identity and access management
- Guardrail for Policy Management
- Preconfigured log archive and audit access to accounts
- Account factory for account provisioning
- Built in Monitoring and Notifications
- Dashboard for visibility and actions

Microsoft Azure Cloud Adoption Framework & Birlasoft Landing Zone assessment + Implementation

Birlasoft's Landing zone is tightly coupled to Microsoft's Cloud Adoption Framework, which helps organizations to develop the proper governance, strategy and security decisions when migrating to Azure. It include foundational Azure services such as management groups and subscriptions, hybrid network connectivity, logging, and security policies, etc.



Assess

- Birlasoft expert team will assess the current state and Identify challenges.

Scope

- Birlasoft team will define the scope based on the assessment, "As Is" infrastructure's understanding.

Customize Landing Zone

- Leverage Birlasoft's library of artifacts and personalized automation templates to deploy infrastructure.
- Range of cloud services available for quick customization and provisioning.

Build Landing zone

- Setup and configure Azure resources i.e., Subscription, Network, Security and governance strategy.
- Using Terraform automated script, quick provisioning of environment i.e., Prod and Non-Prod.
- Launch your small to medium sized business into cloud.

Run & Optimize

- Enable teams to use landing zones
- Implement management & Operational best practices.
- Governance -Configure monitoring & cost optimization

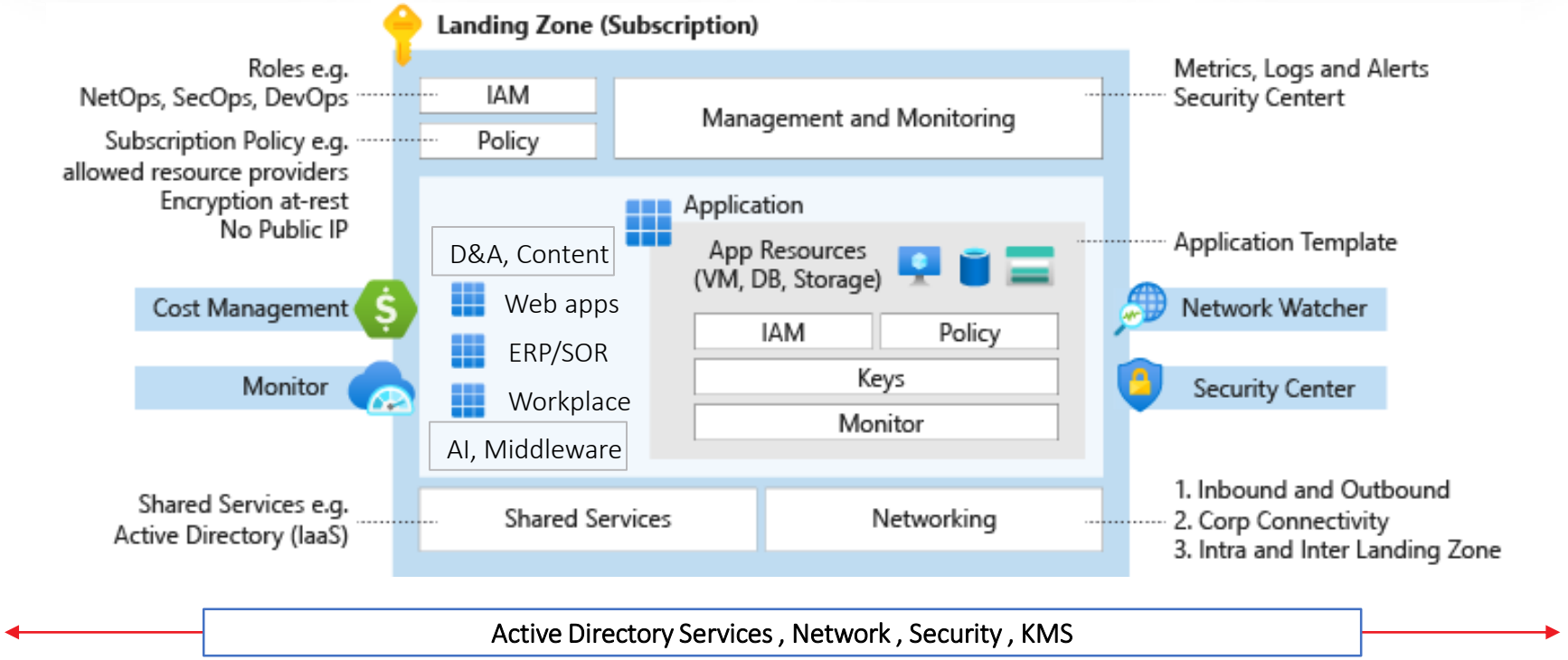
Landing Zone Architecture

Cloud Management and Governance

ITSM Service Management

Monitoring & Alert management

Integrated Provisioning Orchestration



Key Setups

- Tagging Strategy
- Automation Strategy
- Organizations Master Account
- Security Account
- Shared Service Account
- Developer Sandbox Accounts

Key Features

- Automate Landing Zones with best practice blueprints
- Built-in Identity and access management
- Guardrail for Policy Management
- Preconfigured log archive and audit access to accounts
- Account factory for account provisioning
- Built in Monitoring and Notifications
- Dashboard for visibility and actions
- Automatic updates

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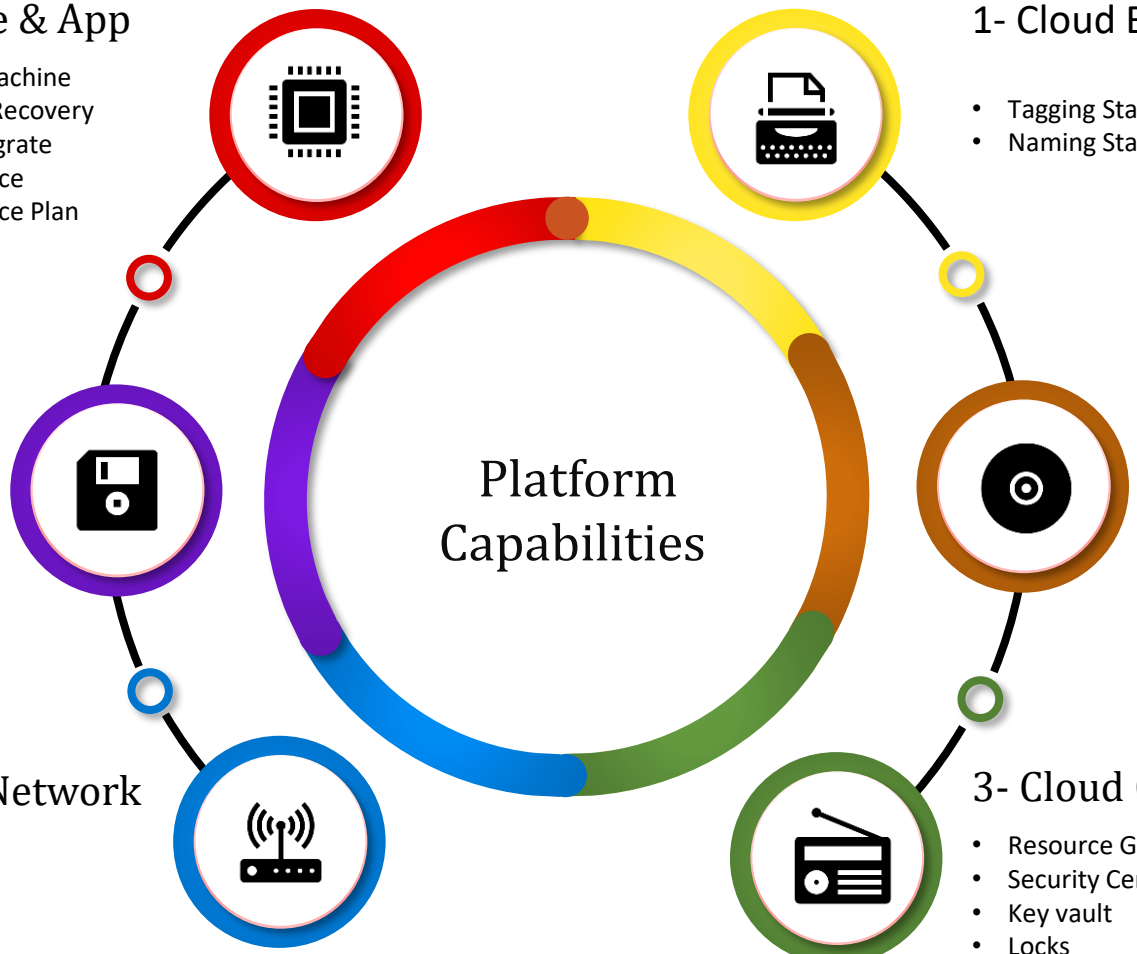
Azure Landing Zones Fundamental



6-Compute & App

- Virtual Machine
- Disaster Recovery
- Azure Migrate
- App Service
- App Service Plan

1- Cloud Best Practices

- Tagging Standards
- Naming Standards

5-Storage

- Storage accounts
- Managed Disks
- Azure Files (Sync)
- Backup

2- Subscription Model

- Subscription Structure
- Management Groups

4-Network

- VNet
- Subnet
- NIC
- Public IP
- Network security group
- Load Balancing
- Hub and spoke

3- Cloud Governance

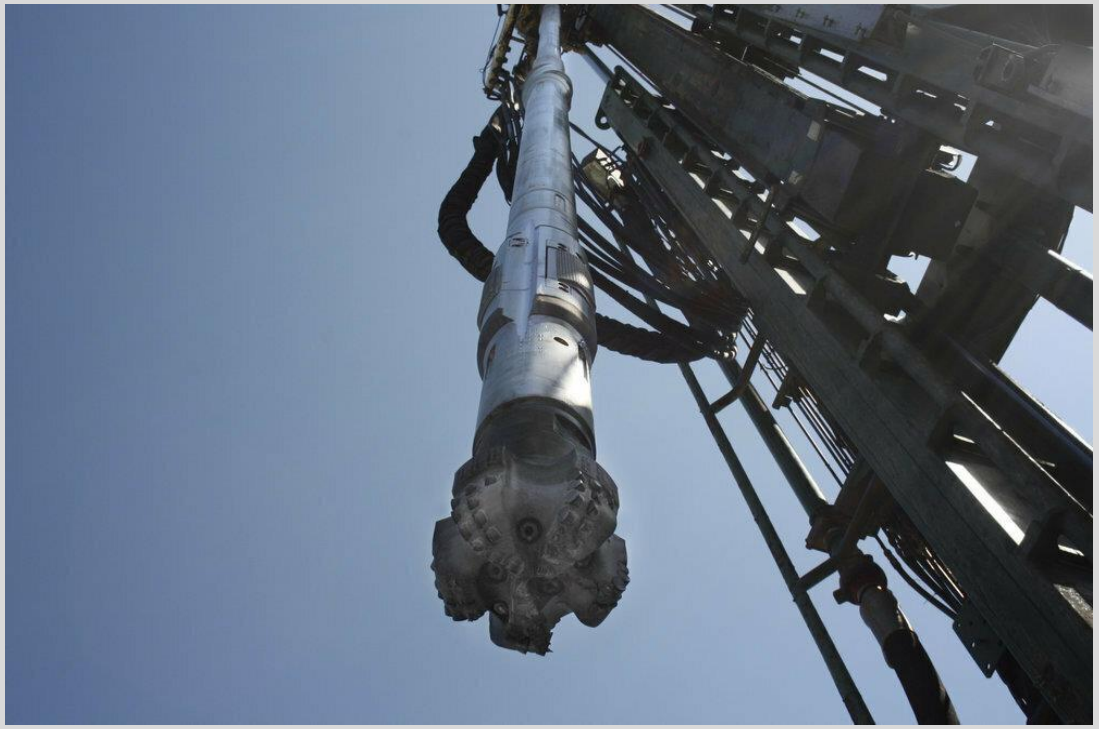
- Resource Groups
- Security Centre
- Key vault
- Locks
- Monitoring
- Identity\RBAC, policies
- Recovery services vault
- Cost Management

Customer Case Study

Client profile

The largest US-based Oil & Gas Drilling Equipment Provider company migrating their existing workload to Azure Cloud. There are around 100+ Azure resources that need to provisioned on Azure cloud to support & migrate their existing workloads. In this capacity their technology has four main objectives: deliver the best customer experience, deliver the best employee experience, drive operational efficiency and revolutionize the industry.

it was decided that Microsoft Azure would be the natural home to turn new ideas for applications and data into solutions. However, this decision was just the beginning of their cloud adoption journey, and the key challenges were how to plot the right path, get moving and be agile in meeting changing demands.



BUSINESS CHALLENGES

- **Rapid provisioning** of the landing zone and cloud services for multiple environments i.e., Prod, Non-Prod
- **Lack of consistency** in resource naming, scaling, and role-based access control.
- **Spending more** and more time on deploying and managing resources.
- **Non-Compliance**: think of regulatory compliance.
- **Latency issues**: Resources deployed within the same region.
- **Cost Optimization**: deploying oversized or unnecessary resources which can have a significant financial impact.

SOLUTION AND APPROACH

- Azure Blueprints and pipelines to lower the effort and increase the chances of successful governance on Azure.
- Leverage Birlasoft's library of artifacts and personalized automation templates to deploy infrastructure.
- Using Terraform automated script, quick provisioning of environment i.e., Prod and Non-Prod.
- Range of cloud services available for quick customization and provisioning.

BENEFITS AND VALUE DELIVERED

- Reduced the manual efforts to provision the different subscription environments on the cloud i.e., non-production and production.
- Automated script-based deployment
- Facilitate efficiency improvement.
- Control over Cost, Security, Risk
- Personalized, Focused, Actionable dashboards

Customized call to action for Birlasoft Landing Zone assessment & implementation

Get a free trial: https://www.birlasoft.com/contact-us

Call for more information: [+91 8800719707]

Ask a question via email: [sandeep.maurya@birlasoft.com]

Learn more: [https://www.birlasoft.com/services/digital/cloud]

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