# Module 7: Deciding upon and Developing a Deployment Strategy

# Exercise 7-1: Identify the best deployment model for a specific scenario

**Analyze deployment options for the scenario**

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| **Runtime plane** | CloudHub | Anypoint Runtime Fabric | Customer-hosted or Private Cloud Edition | Pivotal Cloud Foundry |
| HA and Scalability |  |  |  |  |
| Network latency |  |  |  |  |
| Monitoring |  |  |  |  |
| Networking |  |  |  |  |
| Data security |  |  |  |  |
| DevOps containerization capability |  |  |  |  |
|  |  |  |  |  |

## Decide the best deployment model that might involve AWS autoscaling

Answer questions to decide the best deployment model based on the fact that AWS autoscaling can be achieved using deployment on EC2 instances under ELB control.

* Can CloudHub, PCF, or Runtime Fabric be used to create these types of deployments?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* If not, what runtime plane choices remain?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* What are the network latency requirements for this scenario?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* What is the fastest way to connect an on-prem network to a Mule runtimes in EC2 virtual images? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Decide deployment options based on the type of control plane

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| **Runtime plane** | CloudHub | Anypoint Runtime Fabric | Customer-hosted or Private Cloud Edition | Pivotal Cloud Foundry |
| Scheduling |  |  |  |  |
| CH enhanced logging |  |  |  |  |
| Dashboard |  |  |  |  |
| Insights |  |  |  |  |
| Alerts |  |  |  |  |
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## Decide deployment options for various scenario requirements

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| **Runtime plane** | CloudHub | Anypoint Runtime Fabric | On-prem runtime | Private Cloud Edition | Pivotal Cloud Foundry |
| Auto scaling |  |  |  |  |  |
| Anypoint Monitoring |  |  |  |  |  |
| Anypoint Visualizer |  |  |  |  |  |
| Anypoint Edge Security |  |  |  |  |  |
| Anypoint Tokenization |  |  |  |  |  |
| Load balancing |  |  |  |  |  |
| DLB support |  |  |  |  |  |
| Anypoint MQ |  |  |  |  |  |
| File persistence |  |  |  |  |  |

## Analyze features and capabilities available to the scenario for various deployment options

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| --- | --- | --- | --- | --- |
| **Runtime plane** | CloudHub | Anypoint Runtime Fabric | Customer-hosted or Private Cloud Edition | Pivotal Cloud Foundry |
| HA and Scalability |  |  |  |  |
| Network latency |  |  |  |  |
| Monitoring |  |  |  |  |
| Networking |  |  |  |  |
| Data security |  |  |  |  |
| DevOps containerization capability |  |  |  |  |

## Discuss the options with the class and decide together on the best deployment option for the scenario

Answer these questions:

* Which runtime and control planes can support AWS auto-scaling in EC2 instances under ELB control?
* What is the best way to minimize network latency between on-premises systems and the Mule runtimes running in EC2 under ELB control?