**Part 2: Comparison of Potential Platforms**

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **AWS ECS Fargate** | **OpenShift (OCP)** | **AWS EKS** |
| Complexity | Low complexity, abstracts infrastructure management. | Moderate complexity, Kubernetes-based. | Moderate complexity, Kubernetes-based. |
| Cost | More cost-effective due to serverless nature, pay per task. | Costs can vary, additional management overhead. | Costs can vary, additional management overhead. |
| License | No additional license costs, part of AWS services. | OpenShift subscription costs. | No additional license costs, part of AWS services. |
| Ease of Use | Highly user-friendly, managed service with AWS console. | Requires Kubernetes expertise, steeper learning curve. | Requires Kubernetes expertise, steeper learning curve. |
| Skill Availability | General cloud skills sufficient, ECS-specific skills can be learned. | Requires Kubernetes expertise, may require upskilling. | Requires Kubernetes expertise, may require upskilling. |
| Use Case Fit | Ideal for simple applications without complex dependencies. | Suitable for more complex applications with in-house Kubernetes expertise. | Suitable for more complex applications with in-house Kubernetes expertise. |
| **Recommendation** | **Preferable option** due to cost savings, simplicity, and alignment with use case. | Consider if Kubernetes expertise available and complexity is acceptable. | Consider if Kubernetes expertise available and complexity is acceptable. |

**Part 3: Implemneation plan**

here's the 12-week plan presented in a column and timeline format:

|  |  |  |
| --- | --- | --- |
| **Week** | **Phase** | **Activities** |
| Week 1-3 | Discovery and Feasibility Study | Gather application details, assess dependencies, identify challenges for containerization. Conduct a feasibility study. |
| Week 4-5 | Business Case and Resource Planning | Analyze feasibility study results. Create a comprehensive business case with benefits, cost savings, and technical strategy. Develop a resource plan. |
| Week 6-7 | Approval Process | Submit business case for A approval. Initiate approval process through B methodology. |
| Week 8-9 | Consultation and Planning | Collaborate with PPG for validation. Develop a feature plan with milestones. |
| Week 10-12 | Agile Implementation and Release | Translate feature plan into PBIs and Tasks. Execute sprints for development and testing. Gradually release features based on sprint schedule. |
| Post-Implementation Review | Post-Implementation Review | Assess success, evaluate benefits, and gather feedback for improvements. |

**Timeline**:

|  |  |
| --- | --- |
| **Date** | **Activities** |
| Aug 17 - Sep 7 | Discovery and Feasibility Study |
| Sep 8 - Sep 21 | Business Case and Resource Planning |
| Sep 22 - Oct 5 | Approval Process |
| Oct 6 - Oct 19 | Consultation and Planning |
| Oct 20 - Nov 9 | Agile Implementation and Release |
| Post-Implementation | Post-Implementation Review |