

Podium Tour Operator

Design and implementation of
OpenShift cluster on bare metal
servers



```

 1  /**
 2  * Returns the closest power of two value.
 3  * @param value
 4  */
 5  public static extern int ClosestPowerOfTwo(int value);
 6
 7  /**
 8  * Returns true if the value is power of two.
 9  * @param value
10  */
11  public static extern bool IsPowerOfTwo(int value);
12
13  /**
14  * Returns the next power of two that is equal to, or greater than, the argument.
15  * @param value
16  */
17  public static extern int NextPowerOfTwo(int value);
18
19  /**
20  * Converts the given value from gamma (0 to linear) to gamma (1.0 to linear).
21  * @param value
22  */
23  public static extern float GammaToLinear(float value);
24
25  /**
26  * Converts the given value from linear (0 to gamma) to gamma (1.0 to linear).
27  * @param value
28  */
29  public static extern float LinearToGamma(float value);
30
31  /**
32  * Converts a color temperature in Kelvin to RGB color.
33  * @param value
34  */
35  public static extern Color ConvertColorTemperatureToRGB(float value);
36
37  /**
38  * Converts a color temperature in Kelvin to Kelvin. Range 1000 to 100000 Kelvin.
39  * @param value
40  */
41  public static extern float ColorTemperatureToKelvin(float value);
42
43  /**
44  * Converts a float value to a double value.
45  * @param value
46  */
47  public static extern double ConvertFloatToDouble(float value);
48
49  /**
50  * Converts a double value to a float value.
51  * @param value
52  */
53  public static extern float ConvertDoubleToFloat(double value);
54
55  /**
56  * Returns the sine of angle  $\theta$ .
57  * @param theta
58  */
59  public static float Sin(float theta)
60  {
61     return (float) Math.Sin((double) theta);
62 }
63
64  /**
65  * Returns the cosine of angle  $\theta$ .
66  * @param theta
67  */
68  public static float Cos(float theta)
69  {
70     return (float) Math.Cos((double) theta);
71 }
72
73  /**
74  * Returns the tangent of angle  $\theta$  in radians.
75  * @param theta
76  */
77  public static float Tan(float theta)
78  {
79     return (float) Math.Tan((double) theta);
80 }
81
82  /**
83  * Returns the arc-sine of  $\theta$  - the angle in radians whose sine is  $\theta$ .
84  * @param theta
85  */
86  public static float Asin(float theta)
87  {
88     return (float) Math.Asin((double) theta);
89 }

```

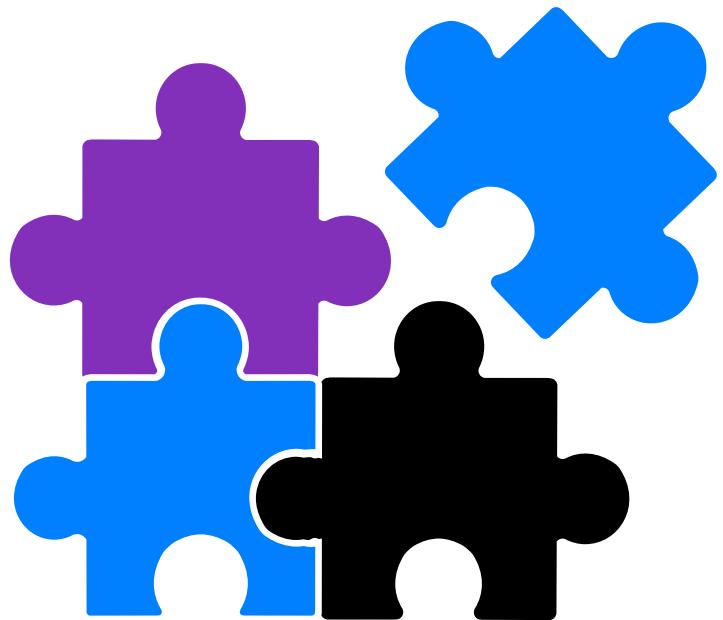


Customer

Our client, a prominent force in the dynamic tourism sector, engaged us for a specialized project: developing and deploying a resilient OpenShift infrastructure. As an internal tool, this system was essentially a CRM designed to streamline their operations and enhance overall efficiency. The client aimed to embrace a cutting-edge, bare-metal, cloud infrastructure, unlocking the numerous benefits it brings to the table.

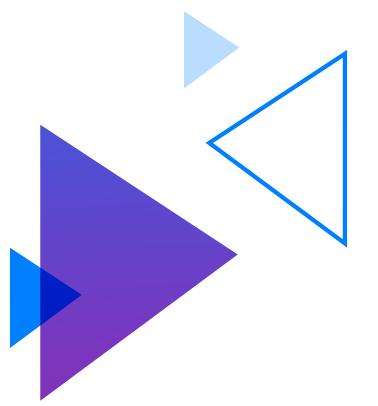
Technologies:

- DevOps: OpenShift, Kubernetes, Terraform, Tekton, Helm



Challenge

The challenges were twofold. First, our team had to navigate the intricacies of setting up an OpenShift infrastructure with multiple clusters and environments—a task that demanded precision and expertise. Second, a pivotal aspect was the need to transition the client's staff to adopt a containerized way of thinking. This required comprehensive training to ensure a smooth shift towards a more modern, scalable, and efficient operational model.



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WHALEY has been a game-changer for us at Podium Tour Operator. Their implementation of the OpenShift infrastructure was smooth, providing us with a modern operational model. The training they conducted to our staff ensured a smooth transition. We benefited with faster release cycle and workflow improvements which led to significant cost reductions long term. I highly recommend WHALEY for their expertise, professionalism and commitment to delivering results.

Jane Nikolov

Executive at Podium Tour Operator

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Solution

Using the comprehensive AWS cloud architecture transformation, our solution strategically addresses the challenges at hand. We strategically addressed the challenges by redesigning the system architecture, seamlessly blending scalability with DevOps and GitOps integration. Leveraging cutting-edge technologies, we orchestrated an environment optimized for large-scale data demands, considering the batches and bursts of data the system experiences during specific periods. This approach not only enhanced the system's scalability but also paved the way for faster release cycles.

Result

The outcome was as expected. The OpenShift infrastructure brought unprecedented scalability, flexibility, and resilience to the client's internal processes. With multiple clusters and environments, they could adapt swiftly to changing demands in the highly dynamic tourism sector. Furthermore, the retraining of the staff led to increased efficiency and a more agile approach to their tasks, which led to a significant cost reduction for maintenance and DevOps personnel. As a result, the client not only experienced operational improvements but also achieved notable financial benefits, underscoring the overall success of the implemented solution.



**Contact us now to discuss
your business case**