DevOps Explorer Workshop

Are you leveraging DevOps to accelerate application delivery?

OneNeck® IT Solutions presents the DevOps Explorer Workshop — an engaging, interactive event focused on helping you dive into DevOps concepts, essential services, design patterns and application evolution. Customers will get an overview of current techniques and practices and exposure to multiple methods, and toolsets. This interactive workshop includes use cases, presentations and demonstrations that will help you develop and apply these methodologies to execute your cloud strategy.

Workshop Description

In this four-hour seminar, our experienced architects will highlight key aspects of application services, automated build and deploy schemas, architectures, methodologies and popular use cases. Then, to gain a hands-on understanding, we will explore a specific use case in-depth and put theory into practice. This workshop is a great way to learn more about what it takes to build and deliver DevOps in your environment and get your questions answered.

Course Details

Delivery Method

- Instructor-Led Training

Duration

- 4-hours onsite

Who Should Attend

- Developers
- IT Architects (Storage, Network, Compute/Virtualization, Automation)
- IT Operations
- Business Development Managers

Prerequisites

- General data center architecture and cloud concepts

Goals

- Learn how businesses are transforming with DevOps use cases and understand the critical milestones needed to develop a plan for transformation.
- Review essential services and service-delivery models using macro and micro-services architectures.
- Understand the approach to continuous delivery and integration.
- Discuss DevOps architectures, tools and methodologies.
- Review and develop use cases relevant to the business.
- Learn how to develop a roadmap to encompass the vision.

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Deliverables

- **Guided Proof-of-Concept: 2-hour technical follow-up on a live system.** During workshop customer will be exposed to a number of demos from config management, application modeling, hybrid-cloud bursting, containers and more They can select up to (2) use-cases for a deep-technical follow-up on a live platform in our innovation center.

- **Findings and Next steps:** A package consisting of a handout and customer findings will be created and delivered via a 1-hour follow-up session.

Workshop Modules

The following is a list of potential modules presented during the Workshop. The final agenda will be customized based on requirements or per special request. Choose up to 4 modules.

Overview— Understand the characteristics of DevOps and what's meaningful for your initiatives specifically. Define DevOps KPI's that matter to your business.

Configuration Management— This is an in-depth look at configuration management which can give guidance to customers on which configuration management platform is best suited for them (Chef, Puppet, or Ansible) as well as best practices around implementing each one of these platforms.

Application Blueprinting— Decouple the application from the infrastructure using application profiles or blueprints. Build standards and processes for application and it's artifacts to decrease error rates between builds.

CI/CD Development— Go deep on continuous integration and delivery from code-commits to artifact creation to promotion into production. How to develop an advancing pipeline that incorporates building, testing, and validation to decrease errors between stages to improve deployment speed and consistency.

Virtualization vs. Containerization— Understand container technology and how it interacts/intersects with virtualization – when to use which technology. Container toolsets- get an overview of where the market is and who is using what.

DevOps Design Patterns— Good design encompasses factors such as consistency and coherence in component design and deployment Develop reusable patterns based on the identified use-cases and common services. Gain a deeper understanding of "infrastructure-as- code" and how that is implemented.

Automated Testing— Develop meaningful tests by testing for how the end user experiences the product, not how the developer wrote it. Beyond the tests, integrating QA into the development pipeline to make it an inherent part of the development process and not an afterthought.

Service Delivery— It's all about the application – understanding the application and how it intersects with thedata - center and operations. Map workloads to a capabilities matrix to provide a proactive and transparent service. Evolve delivery capabilities from traditional infrastructure-led to service-led builds.

Evolution of Self-Service— This is a walk-through of how business typically evolve into full self-service platforms for engineering teams. This looks at the tool chains integration between CICD and CMP and explains how developers can deploy, promote, scale and publish their own services.

How to Promote Services Internally— Consistently we see infrastructure teams deploy platforms such as OpenShift, VRA, etc.. only to see them be passed over by engineering orgs. This workshop gives real techniques organizations can employ today to promote the success of internal tools and services.

Use Cases— Define various business use cases based on attendee feedback. Understand how multiple models can be applied to solve the use cases.

Getting Started— Accelerating the Decision – moving past "analysis paralysis" with a plan. How to develop a roadmap (12 to 18-month vision for DevOps).

About OneNeck® IT Solutions

OneNeck IT Solutions LLC offers hybrid IT solutions including cloud and hosting solutions, managed services, enterprise application management, advanced IT services, IT hardware and top-tier data centers in Arizona, Colorado, Iowa, Minnesota, New Jersey, Oregon and Wisconsin. OneNeck's team of technology professionals manage secure, world-class, hybrid IT infrastructures and applications for businesses around the country.

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