Building a Cloud Roadmap: Planning for a successful and efficient Cloud Migration

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In this course, you will learn the key challenges involved in moving a modern software application to the cloud, what systemic changes are needed in your company culture to support running in the cloud, and how modern software development processes can work with you in making the migration a success. Learn how to improve visibility into the inner workings of your application to speed up the migration process. Use risk management techniques to make decisions designed to optimize your migration success.

Target Audience

1. You are an IT Manager or Director in an organization that has been given the challenge to move key applications to the cloud.
2. You team has struggled and had problems or only limited success in previous cloud migrations, and you must improve your results in your next migration.
3. Your organization is looking to modernize a mission critical application and you have been tasked with using the cloud as part of this process.

Prerequisites

- IT Manager or Director in an organization of any size that is facing a cloud migration.
- Manages a software development or IT operations team or organization.
- Awareness and general understanding of modern software development practices, such as DevOps, Continuous Deployment, QA-less testing,
- Knowledge and awareness of general principles of running applications in the AWS Cloud.

We will mostly be talking about any cloud provider, but examples and discussion will often reference Amazon Web Services.

Desired Skills

- Knowledge and awareness of dynamic application principles.
- Knowledge and awareness of twelve factor application methodology.
- Knowledge and (preferably) experience building service or microservice based applications.

Expected Outcomes

1. Participants will understand:
   a. What problems commonly occur during a cloud migration.

    b. How to use a cloud migration as part of an overall application modernization strategy.

    c. How dynamic application techniques improve your ability to leverage the cloud.

    d. How to identify key performance metrics to help determine when a migration has   been completed successfully.

    e. How to use modern application monitoring tools to improve visibility into your application migration.

    f. Challenges with data and data migration to the cloud.

2. Participants will be able to:

    a. Build a high-level plan for effectively migrating their application to the cloud.

Common Misunderstandings

1. The drawbacks and problems associated with simple lift-n-shift migrations.
2. How common fallacies in cloud adoption can impact your ability to succeed in a migration.