Agenda

➜ Understanding Chaos Engineering

➜ Need of Chaos in Azure

➜ Azure Chaos Studio

➜ Demo – Creating Chaos (Chaos Experiment)
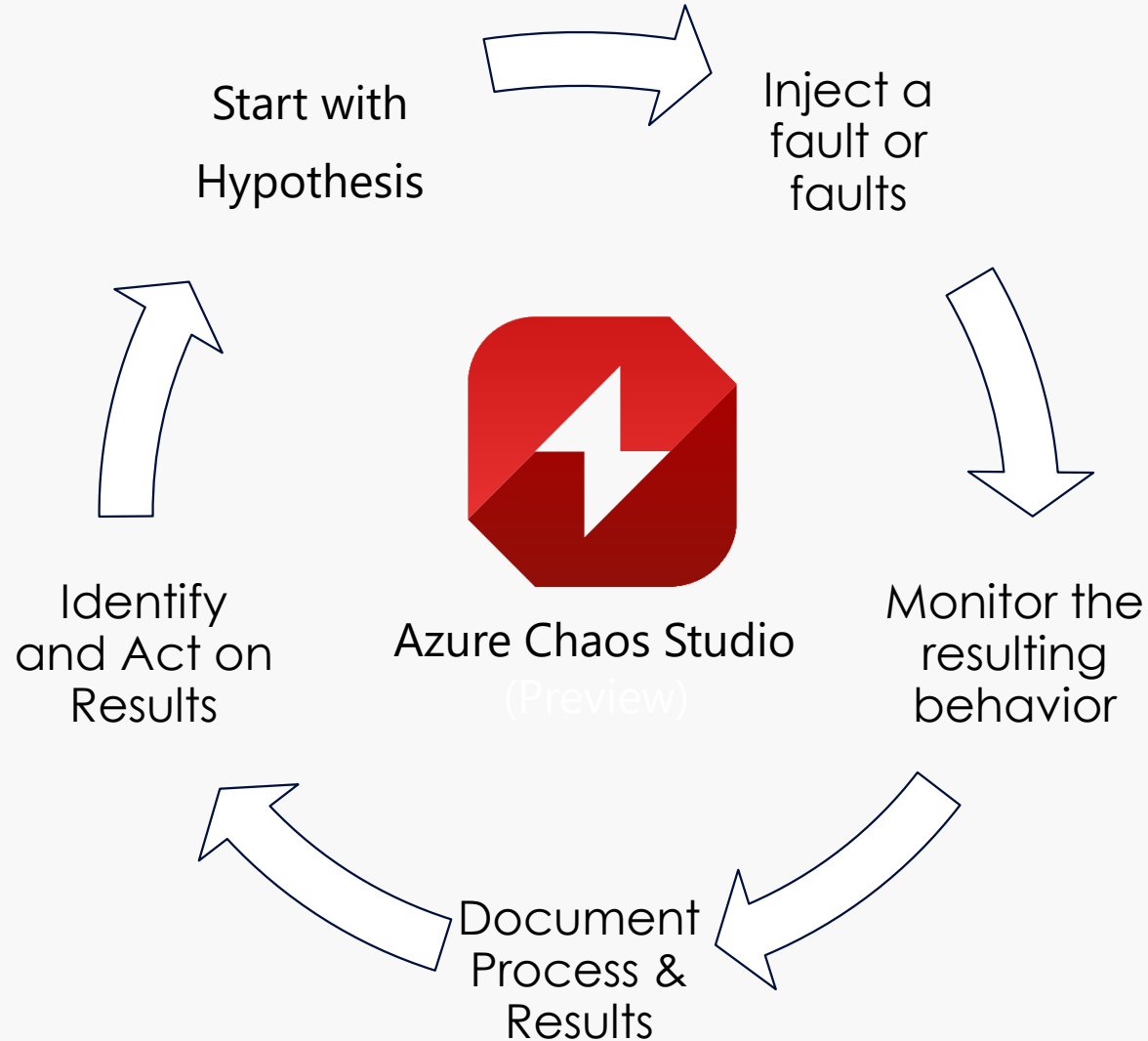
➜ Q&A

What is Chaos Engineering?

A common way to introduce chaos is to deliberately inject faults that cause system components to fail.

The goal is to observe, monitor, respond to, and improve your system's reliability under adverse circumstances.

Traditional ways to create Chaos

- Abrupt VM Shutdowns/Stopping Web Apps/Killing Containers

- Using/Writing different Utilities/Programs to build CPU and Memory Pressure

- Manually killing processes

- Postman/Similar tools/SSH to test NSG Rules/denial request/success

- Using/Writing different Utilities/Program to build Disk Load to test Desk Optimization and IOPS

How to create Chaos in Azure?

Start with Hypothesis

Inject a fault or faults

Monitor the resulting behavior

Document Process & Results

Identify and Act on Results

Azure Chaos Studio (Preview)

Key Takeaways and References

- Currently available as "Preview" –
  Currently only Cosmos DB and VM workload supported

- Allows Agent based integration, Templates can be integrated with DevOps. Agent based integration provides more Faults

- Secure via RBAC/Managed Identity

- Integration with Azure Monitor services

- Can be used for Testing, Production environments

➢ https://docs.microsoft.com/en-us/azure/architecture/framework/resiliency/chaos-engineering

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Thanks

E-Mail – vikram.pendse@amdocs.com
Twitter - @VikramPendse

Slides/Demos available at github.com/VikramPendse/Presentations

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