INNOVATION WEBINAR SERIES

Today's Presentation:
One-Click Deployment of VistA Development Sandbox in Azure Cloud

Thank you for joining.

This presentation will begin shortly.

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Welcome to the OSEHRA Innovation Webinar

One-Click Deployment of VistA Development Sandbox in Azure Cloud

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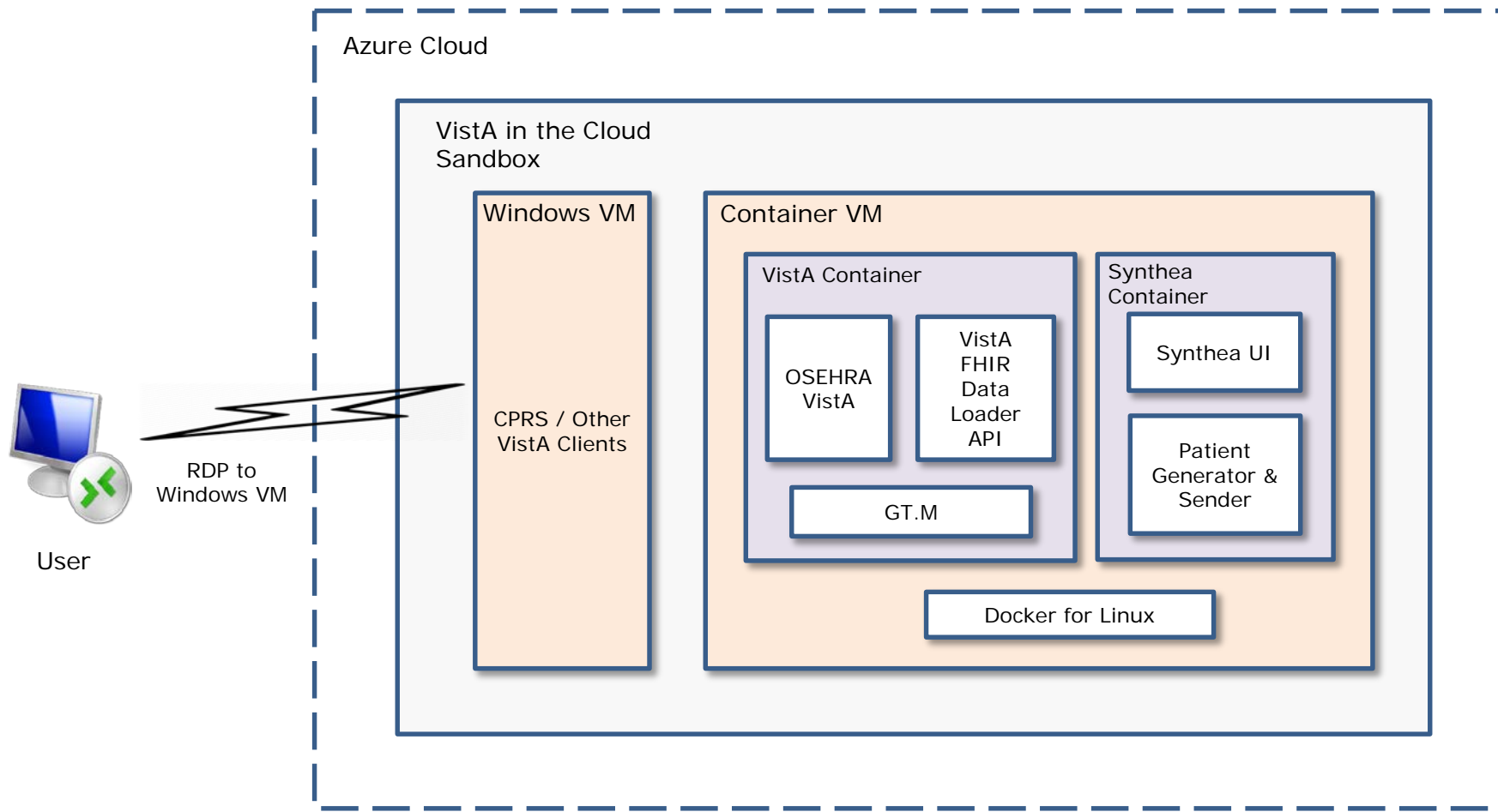Director, Engineering and Infrastructure
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Background

- **Offshoot development of past work to build a test and certification environment for VistA applications in the Azure Government cloud. It includes:**
    - Scripts/templates developed to enable single click deployment of VistA sandbox - https://github.com/OSEHRA/VistA-in-the-Cloud
    - Docker based OSEHRA VistA container
    - Synthetic data generator and loader based on Synthea
    - Windows client, i.e., CPRS, Vitals, etc.

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OSEHRA VistA in the Cloud Sandbox System Configuration

Azure Cloud

VistA in the Cloud Sandbox

Windows VM

CPRS / Other VistA Clients

Container VM

VistA Container

OSEHRA VistA

VistA FHIR Data Loader API

GT.M

Synthea Container

Synthea UI

Patient Generator & Sender

Docker for Linux

RDP to Windows VM

User

Azure Automation via Azure Resource Manager (ARM) Template

- **Are JSON files that define the resources to deploy to a resource group, see tutorial - https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-create-first-template**

- **Define the properties and the dependencies for the infrastructure to deploy to Azure.**

- **Provides an easy way to create and manage resources consistently and repeatedly in an orderly and predictable manner in a resource group.**

Lesson Learned – Azure CLI and Template

- **Nested ARM Templates are a way to organize large deployments, however, you are limited to using a public Github repository**
- **VM Configuration within the Templates are easy as long as you only need to run the one script due to Azure's script extension not removing itself upon completion**
- **The Azure CLI is very powerful allowing you to run multi-staged configurations, entire infrastructure setups, and more**
- **Troubleshooting templates/scripts can be a challenge, after a reasonable amount of testing refer to the Azure Github to check for open issues similar to what you are experiencing.**
- **Templates vs CLI on complex tasks, if there is a choice between the two it is recommended to use the CLI since you can overcome more of the Template nuances.**

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Demo

Thank you!
Questions?

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