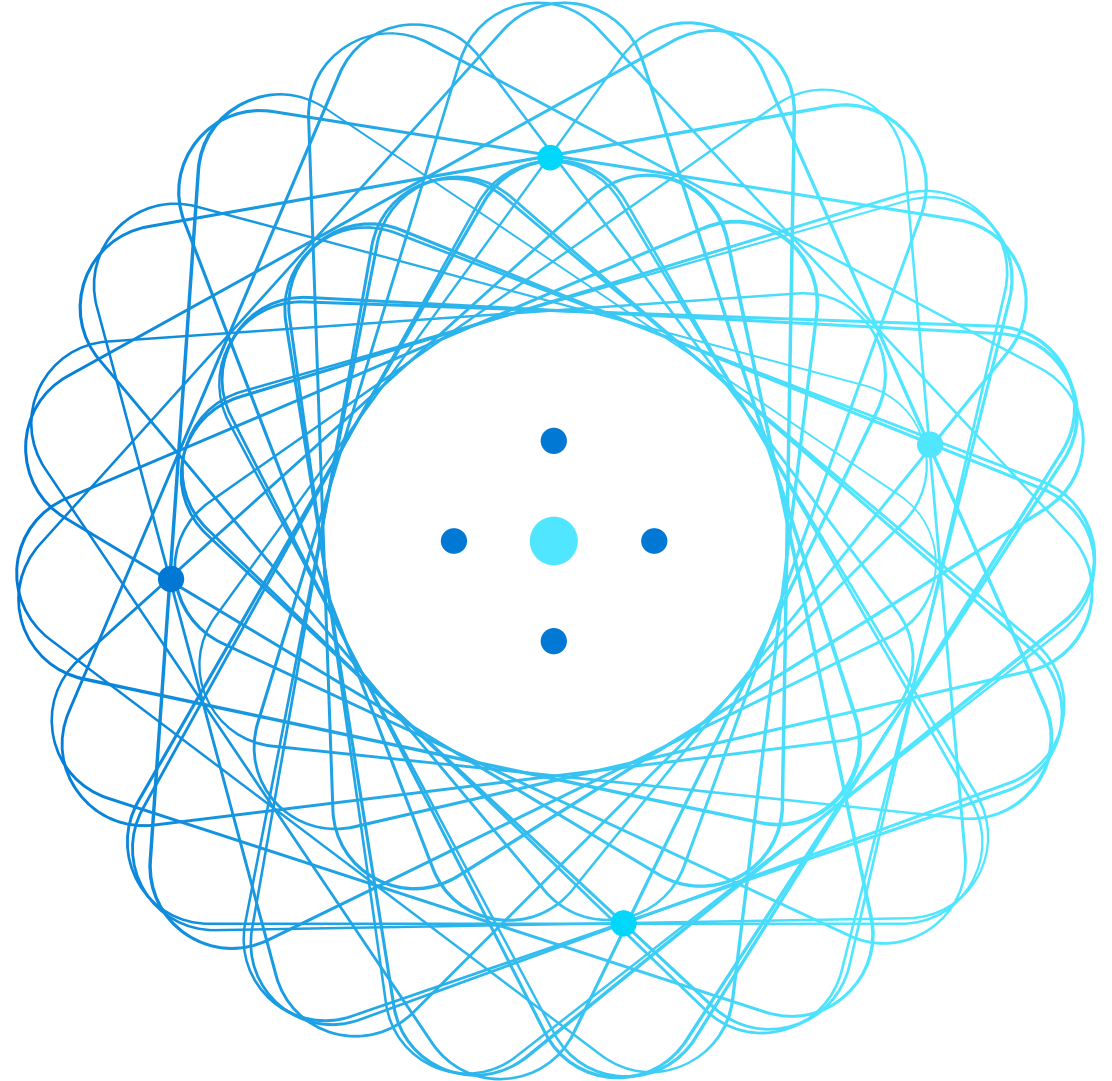


AZ-900T0x

Module 04:

Cloud concepts

Ravindra Kudache



Module Outline



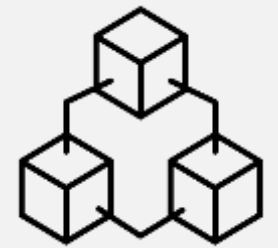
Module 03 - Outline

You will learn the following concepts:

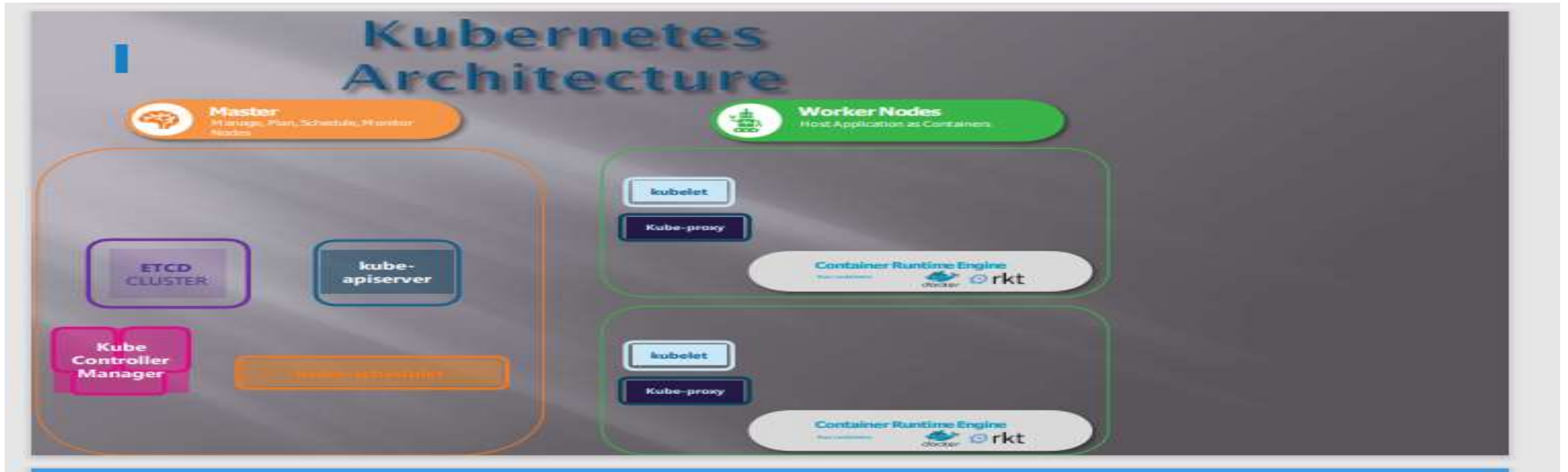
- **Docker & AKS**
- **Monitor**



Cloud Models

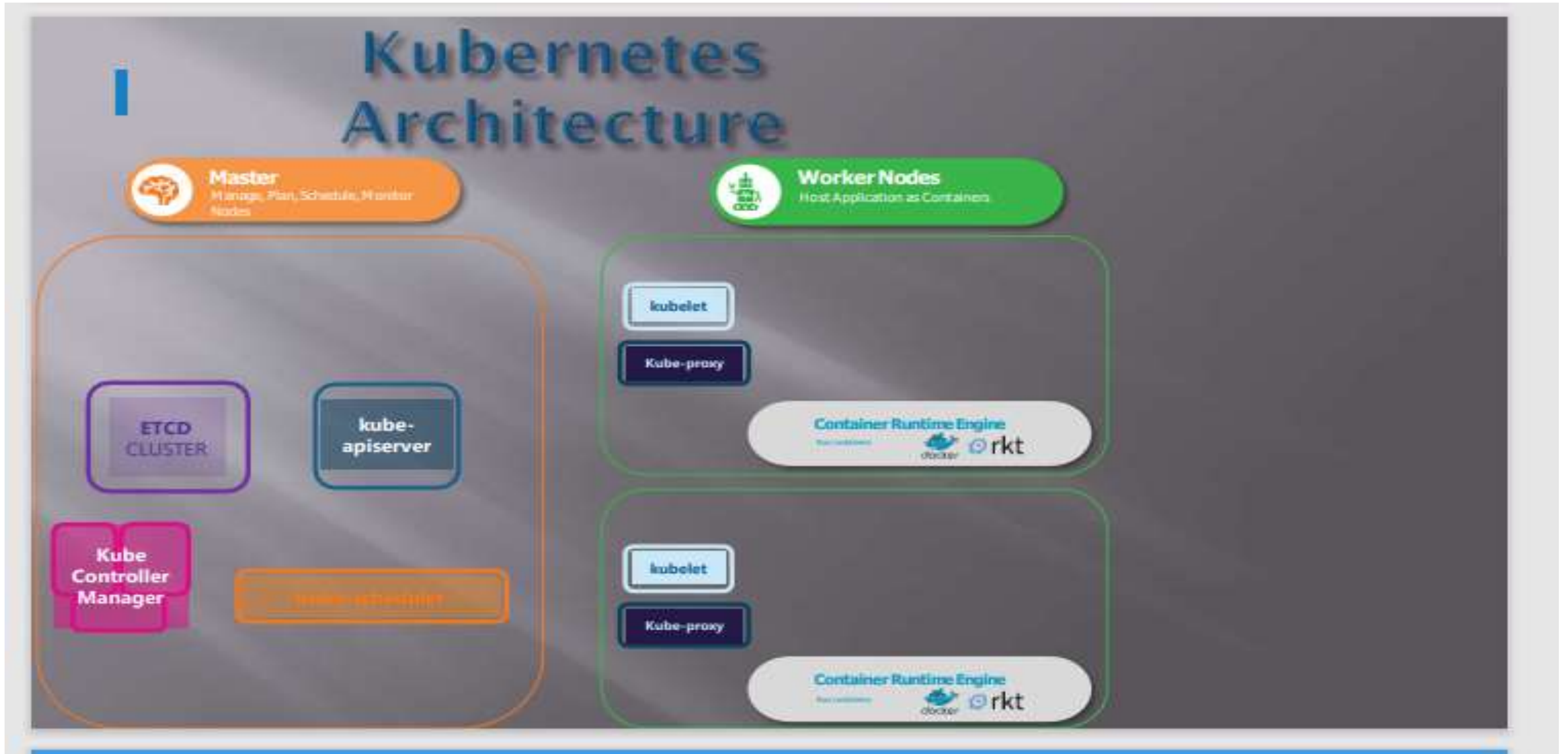


Azure Kubernetes Service



Azure Kubernetes Service: an orchestration service for containers with distributed architectures and large volumes of containers.

Kubernetes



Network watcher

Topology	Network Diagnostics	Metric	Logs
Visualize your network topology	Diagnostic tools for networking related issues	Measure and view your network performance and health	Configure and view your logs
<ul style="list-style-type: none">• Topology	<ul style="list-style-type: none">• Variable Packet Capture• IP Flow Verify• Security Group View• Next Hop• VPN Troubleshoot	<ul style="list-style-type: none">• Network Subscription Limits	<ul style="list-style-type: none">• Network Security Group Flow logs• Single place to configure all logs and Alerts

Network watcher

VARIABLE PACKET CAPTURE

Configure & Manage Capture Sessions on VMs

- Windows & Linux*
- .CAP Format

Storage Flexibility

- Azure Blob Storage
- Local VM File System

Session Flexibility

- Session Time & Byte Limits
- Configure Bytes Stored per Packet
- Composable Traffic Filtering

*Power Capture requires the installation of the Azure Network Watcher Agent.

Network watcher

IP FLOW VERIFY



Investigate a Flow

- Specify a VM
- Specify Packet Parameters
- IP Flow Verify returns whether the packet would be allowed/denied given the current Network Security Group Rules
- Returns the Network Security Group Rule for the Flow

Network Watcher - IP Flow Verify

Search a packet which matches with specified packet security criteria. The result shows a list of applicable network security group rules.

Source IP:

Destination IP:

Protocol:

Source Port:

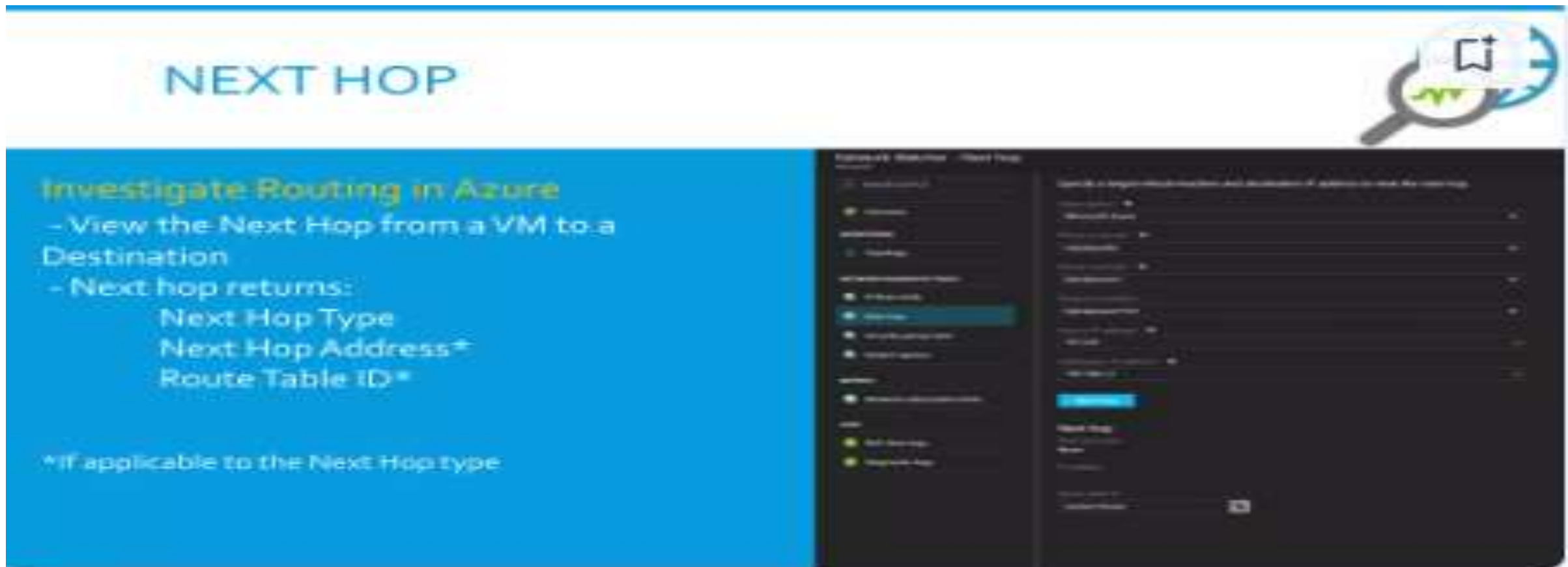
Destination Port:

Result:

Network watcher



Network watcher



Azure Monitor

Azure Monitor maximizes the availability and performance of applications and services by collecting, analyzing, and acting on telemetry from cloud and on-premises environments.

- Application Insights
- Log Analytics
- Smart Alerts
- Automation Actions
- Customized Dashboards



Azure Monitor

- Here you get metrics for the underlying resources deployed as part of your Azure subscription.
- You can also collect log data with the help of a Log Analytics workspace.
- You can define Azure Monitor alerts to send an alert if a specific condition is being reached for your Azure resources.



Application Insights

Monitoring

This provides the feature of application performance management and monitoring of live web applications.

Aspects

Here you can see aspects such as detecting performance issues or any other issues.

Support

There is support for .NET, Node.js, Java and Python.

Application Insights



Applications

This works for applications hosted in Azure, on-premises environments, or other cloud platforms.

Integration

It has Integration with the Visual Studio IDE.

Users

You can also see how users interact with your application.

Azure Service Health (continued)

Azure Service Health provides a personalized view of the health of Azure services and the regions being used.

- Communication regarding outages
- Planned maintenance
- Other health advisories

Microsoft Azure	Health Advisory Summary	2020-08-22T19:43:35Z
Title:	We have important information regarding your ExpressRoute service	
Tracking ID:	PLWN-F80	
Event type:	Health Advisory	
Status:	Ongoing as of 2020-08-22T19:43:34Z	
Service(s):	ExpressRoute \ ExpressRoute Circuits	
Region(s):	Australia Central, Australia Central 2, Australia East, Australia Southeast, Brazil South, Canada Central, Canada East, Central India, Central US, Central US EUAP, East Asia, East US, East US 2, East US 2 EUAP, France Central, France South, Germany North, Germany West Central, Global, Japan East, Japan West, Korea Central, Korea South, North Central US, North Europe, South Africa North, South Africa West, South Central US, Southeast Asia, South India, Switzerland North, Switzerland West, UAE Central, UAE North, UK South, UK West, West Central US, West Europe, West India, West US, West US 2	
Start time:	2020-08-18T00:00:00Z	
Resolve time:	Ongoing as of 2020-08-22T19:43:34Z	
Last update time:	2020-08-19T07:19:29Z	
Impacted subscriptions:	5733bcb3-7fde-4caf-8629-41dc15e3b352 (Contoso Hotels)	