Lab 04 - Implement Virtual Networking

- Task 1: Create a virtual network with subnets using the portal
- Task 2: Create a virtual network and subnets using a template
- Task 3: Create and configure communication between an Application Security Group and a Network Security Group
- Task 4: Configure public and private Azure DNS zones

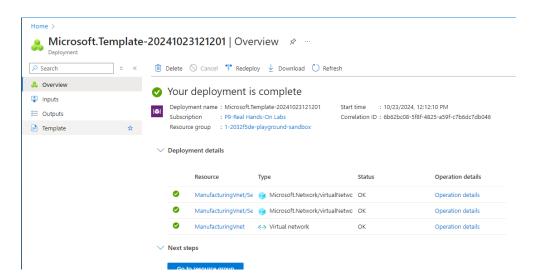
Task 1: Create a virtual network with subnets using the portal

Create virtual network

Basics	Security	IP addresses	Tags	Review + create							
View aut	View automation template										
Basics											
Subscrip	tion		P9-Rea	P9-Real Hands-On Labs							
Resource	Group		1-2032	1-2032f5de-playground-sandbox							
Name			CoreSe	CoreServicesVnet							
Region			East U	East US							
Securit	у										
Azure Ba	stion		Disabl	Disabled							
Azure Firewall			Disabl	Disabled							
Azure DDoS Network Protection			Disabl	Disabled							
IP addr	resses										
Address space			10.20.0	10.20.0.0/16 (65 536 addresses)							
Subnet			Shared	SharedServicesSubnet (10.20.10.0/24) (256 addresses)							
Subnet			Databa	DatabaseSubnet (10.20.20.0/24) (256 addresses)							
Tags											

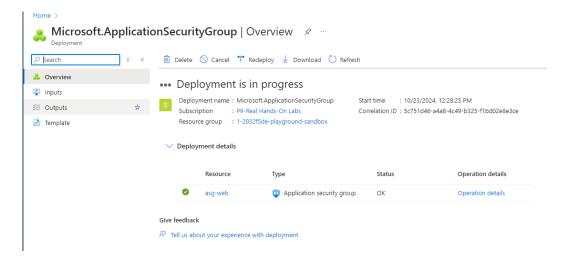
I created a **Virtual Network** and it's **subnet**s according to the requirements in the lab and downloaded a template.json.

Task 2: Create a virtual network and subnets using a template

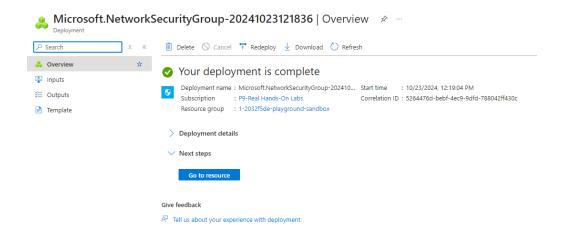


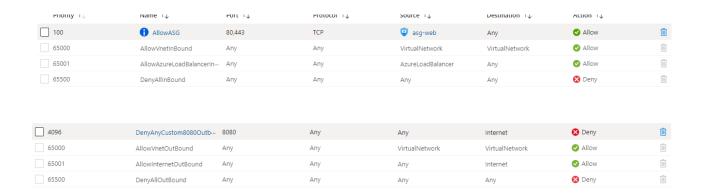
I make all the necessary changes in template.json and parameters.json deployed this custom template.

 Task 3: Create and configure communication between an Application Security Group and a Network Security Group



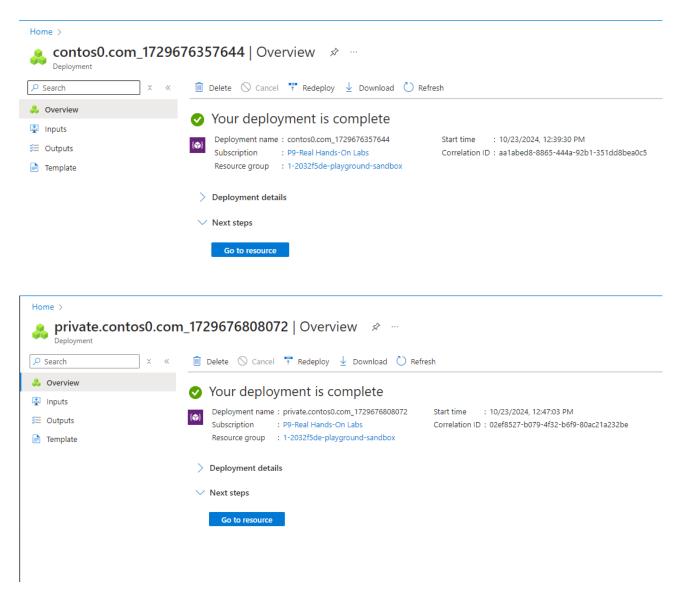
Created an Application Security Group





After creating an Application Security Group I configured inbound and outbound security rules to allow ASG traffic and deny Internet access

Task 4: Configure public and private Azure DNS zones



I configured public and private DNS zones and add a record set for each one with required values from the lab.

```
Server: ns1-05.azure-dns.com.
Address: 13.107.236.5#53

** server can't find www.contoso.com: REFUSED

cloud [ ~ ]$ nslookup www.contoso.com ns1-05.azure-dns.com.
Server: ns1-05.azure-dns.com.
Address: 13.107.236.5#53

Name: www.contoso.com
Address: 10.1.1.4

cloud [ ~ ]$
```

I verified that contoso.com (contos0.com in my case) has an A record set named www, so this confirms that name resolution is working correctly.

Name	Туре	TTL	Value	Auto registered	
sensorvm	А	3600	10.1.1.4	False	0