



**Cloud Development, 2021 fall.  
Lab 8**

**Report**

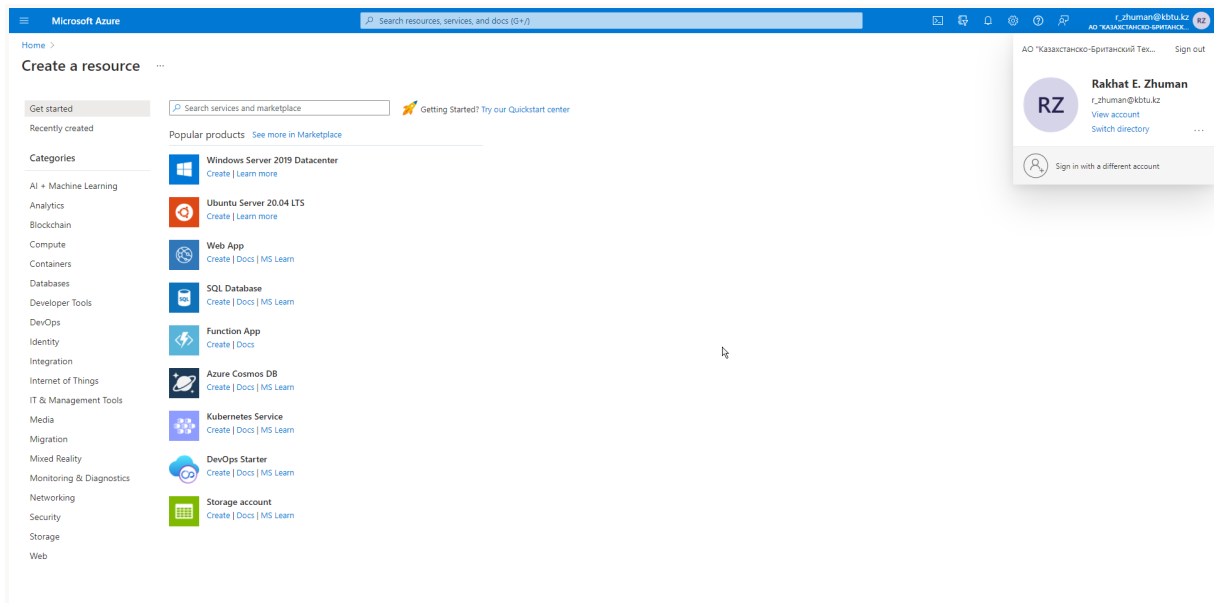
**Creating a multi-tier solution by using services in Azure**

made by Zhuman Rakhat

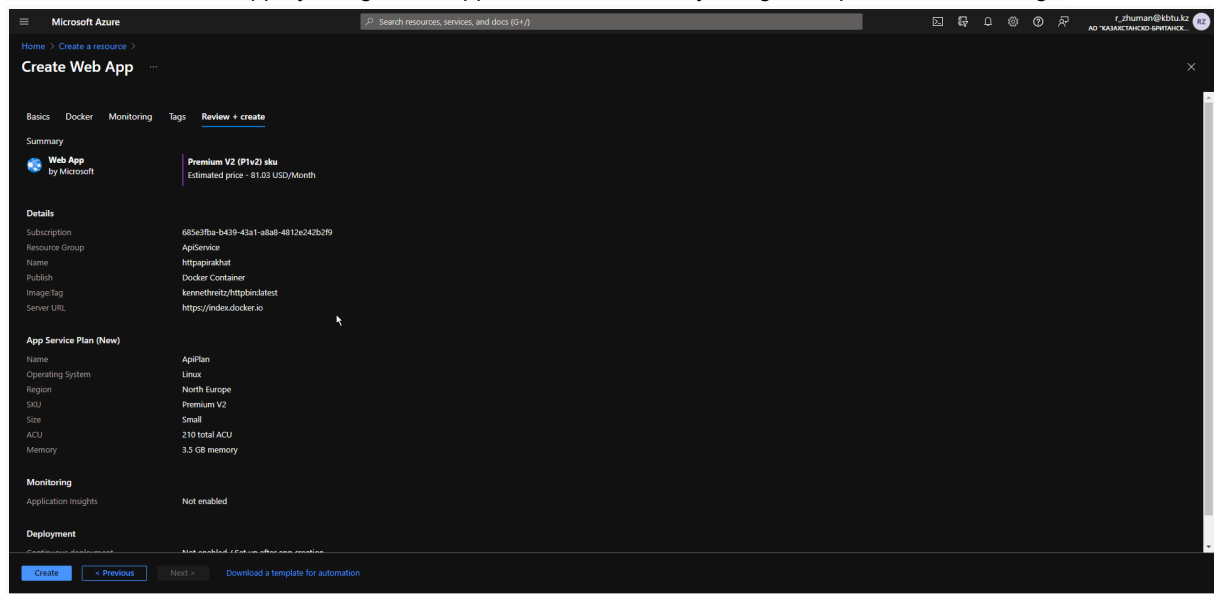
Almaty 2021

# Exercise 1: Creating an Azure App Service resource by using a Docker container image

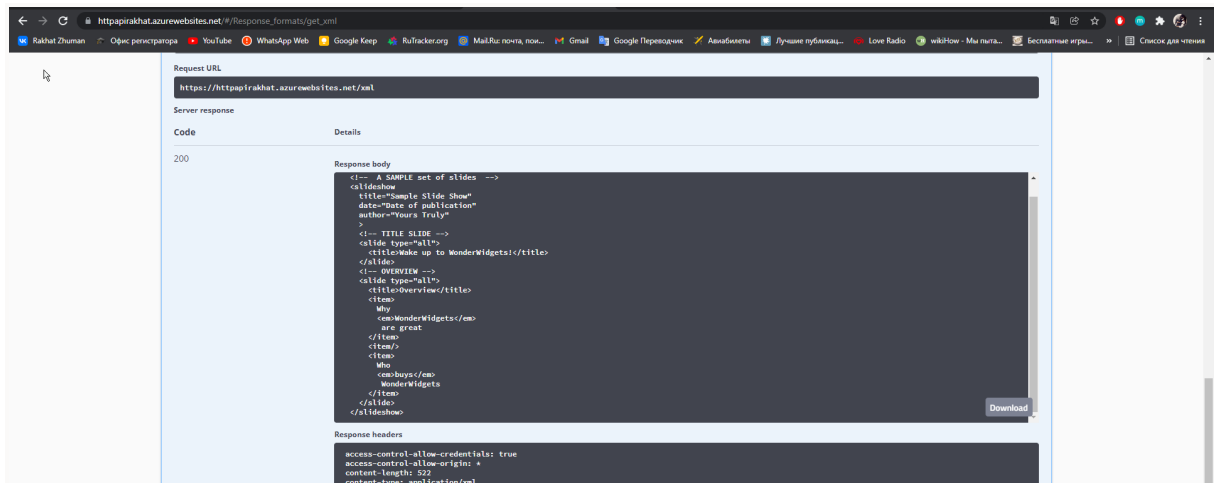
## Task 1: Open the Azure portal



## Task 2: Create a web app by using Azure App Service resource by using an httpbin container image



## Task 3: Test the httpbin web application



httppirakhat.azurewebsites.net

## Exercise 2: Build an API proxy tier by using Azure API Management

### Task 1: Create an API Management resource

Microsoft Azure

Home > Create a resource > API Management >

### Create API Management

Validation Passed

Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

**Basics**

Subscription: Azure for Students  
Resource group: ApiService  
Region: North Europe  
Resource name: prodapirakhat  
Organization name: Contoso  
Administrator email: r.jhuman@kbtu.kz  
Pricing tier: Consumption (99.95% SLA)

**Monitoring**

Application Insights: Off

**Managed identity**

Identity type: None

**Protocol settings**

HTTP/2: Off  
TLS 1.1 (HTTP/1.x only): Off  
TLS 1.0 (HTTP/1.x only): Off  
TLS 1.1: Off  
TLS 1.0: Off  
SSL 3.0: Off

Create < Previous Next > Download a template for automation

### Task 2: Define a new API

Microsoft Azure

Home > Microsoft.ApiManagement:20211113120946 > prodapirakhat

### prodapirakhat | APIs

API Management service

Search (Ctrl+J)

Filter by tags

Group by tag

+ Add API

All APIs

HTTPBin API

Design Settings Test Revisions Change log

REVISION 1 CREATED Nov 13, 2021, 12:16:14 PM

Search operations

Filter by tags

Group by tag

+ Add operation

All operations

GET Echo Headers

Frontend

Inbound processing

Modify the request before it is sent to the backend service.

Policies

base

set-header

+ Add set-header

<set-header name='source' exists-action='append' value='azure-api-ngmt' />

Backend

HTTP(s) endpoint

http://pirakhat.azurewebsites.net

Policies

base

Outbound processing

Modify the response before it is sent to the client.

Policies

base

+ Add policy

Microsoft Azure

Home > Microsoft.ApiManagement:20211113120946 > prodapirakhat

### prodapirakhat | APIs

API Management service

Search (Ctrl+J)

Filter by tags

Group by tag

+ Add API

All APIs

HTTPBin API

Design Settings Test Revisions Change log

REVISION 1 CREATED Nov 13, 2021, 12:16:14 PM

Search operations

Filter by tags

Group by tag

+ Add operation

All operations

GET Echo Headers

GET Get Legacy Data

HTTPBin API > Echo Headers > Backend

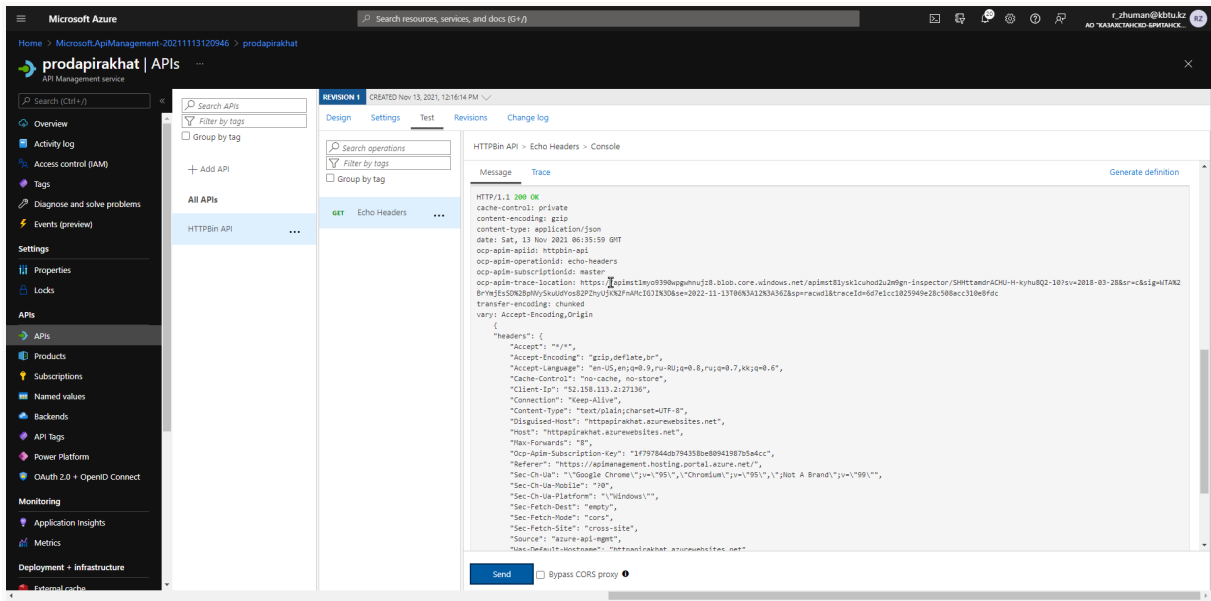
Backend

Define which service to send the request to.

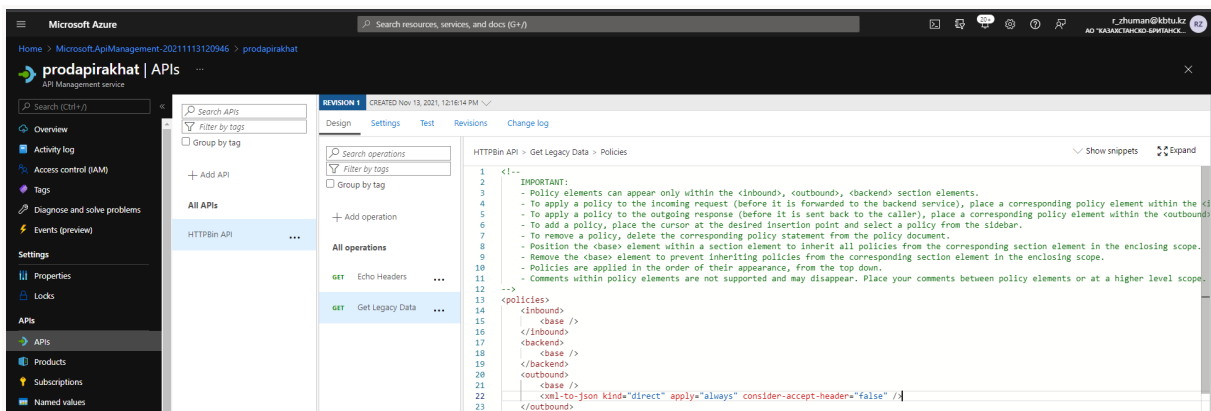
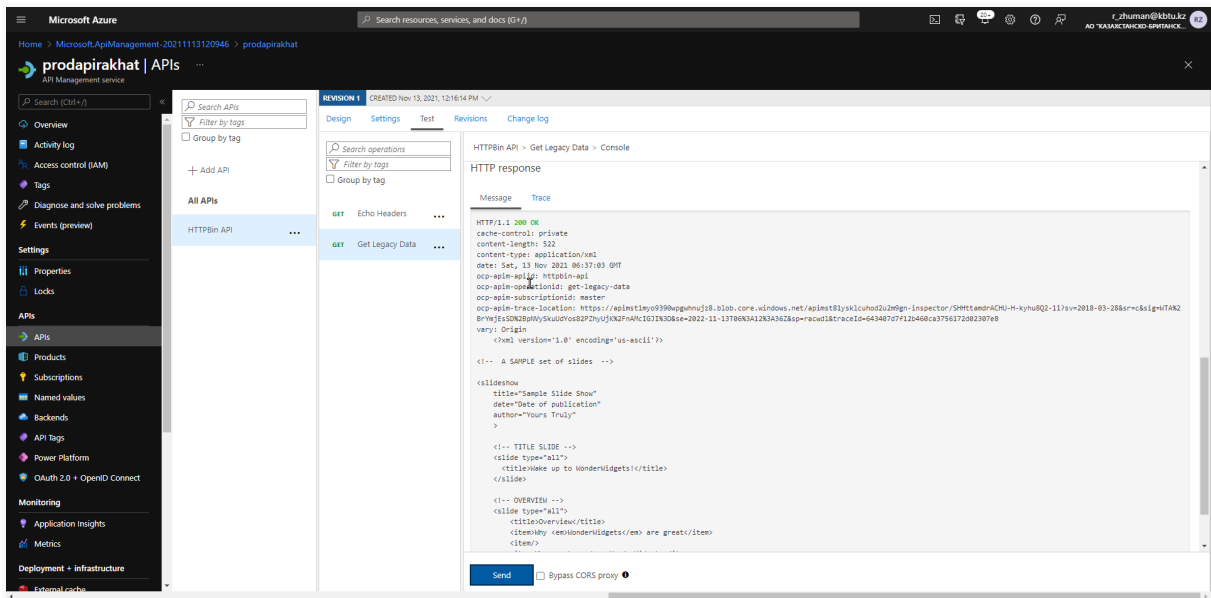
Target: ☐ Azure Logic App ☒ HTTP(s) endpoint

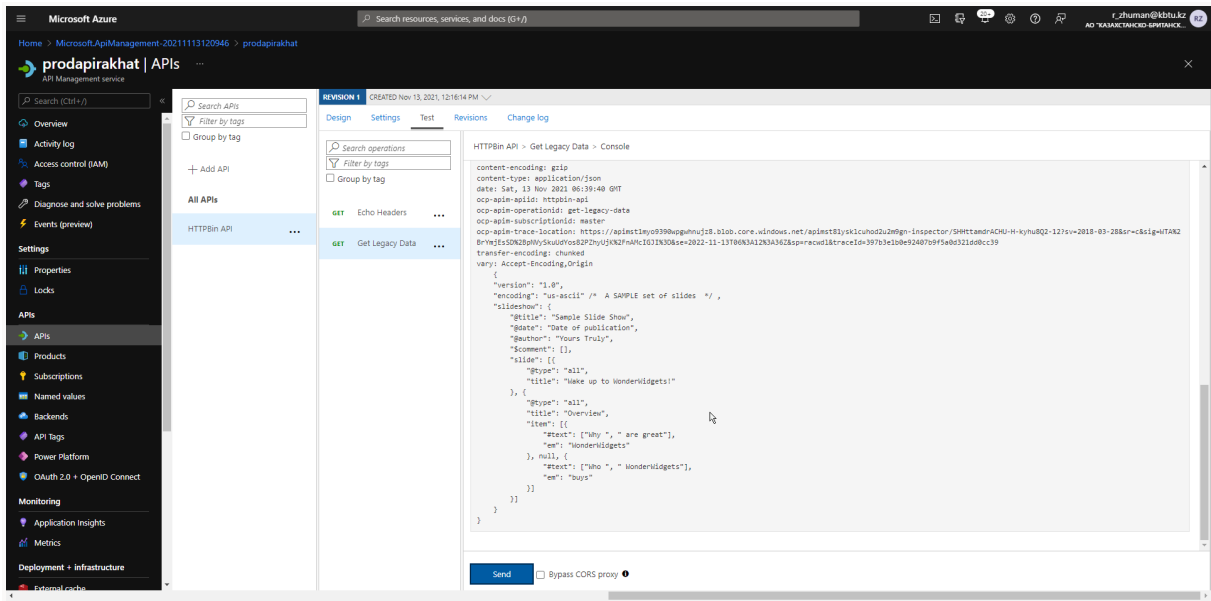
Service URL:  ☒ Override

Gateway credentials: ☒ None ☐ Basic ☐ Client cert

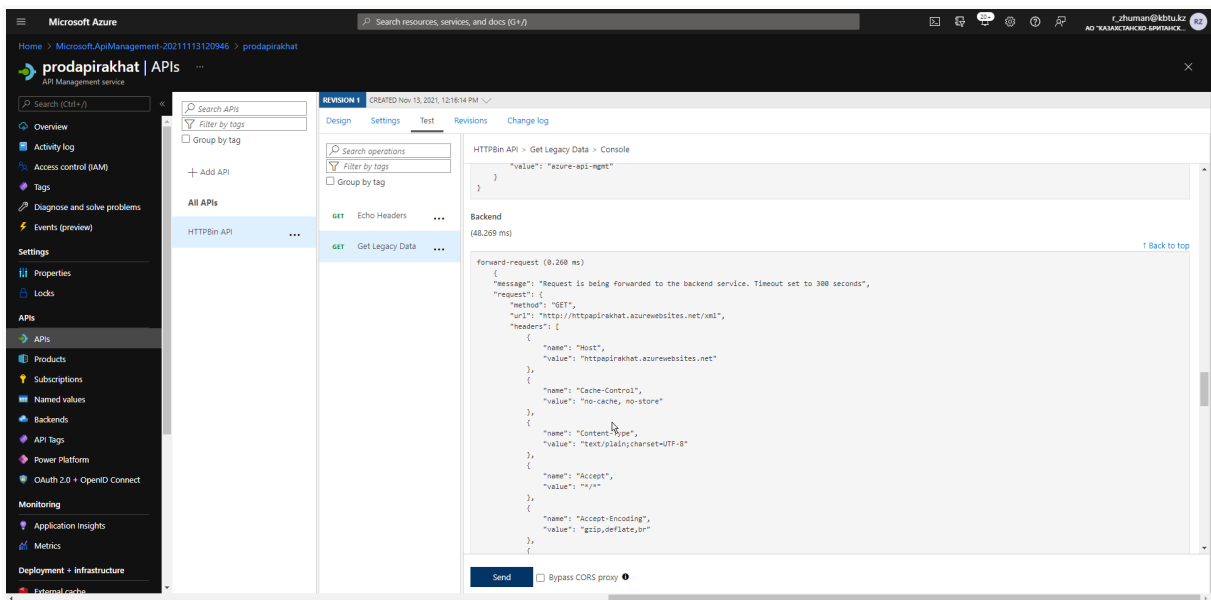


### Task 3: Manipulate an API response





## Trace Backend



## Exercise 3: Clean up your subscription

### Task 2: Delete resource groups

