- Destroy the storage account (after confirming the state behavior).

Practical Task 2: Deploy an Azure Virtual Machine with a Custom Network and Security Rules

Requirements:

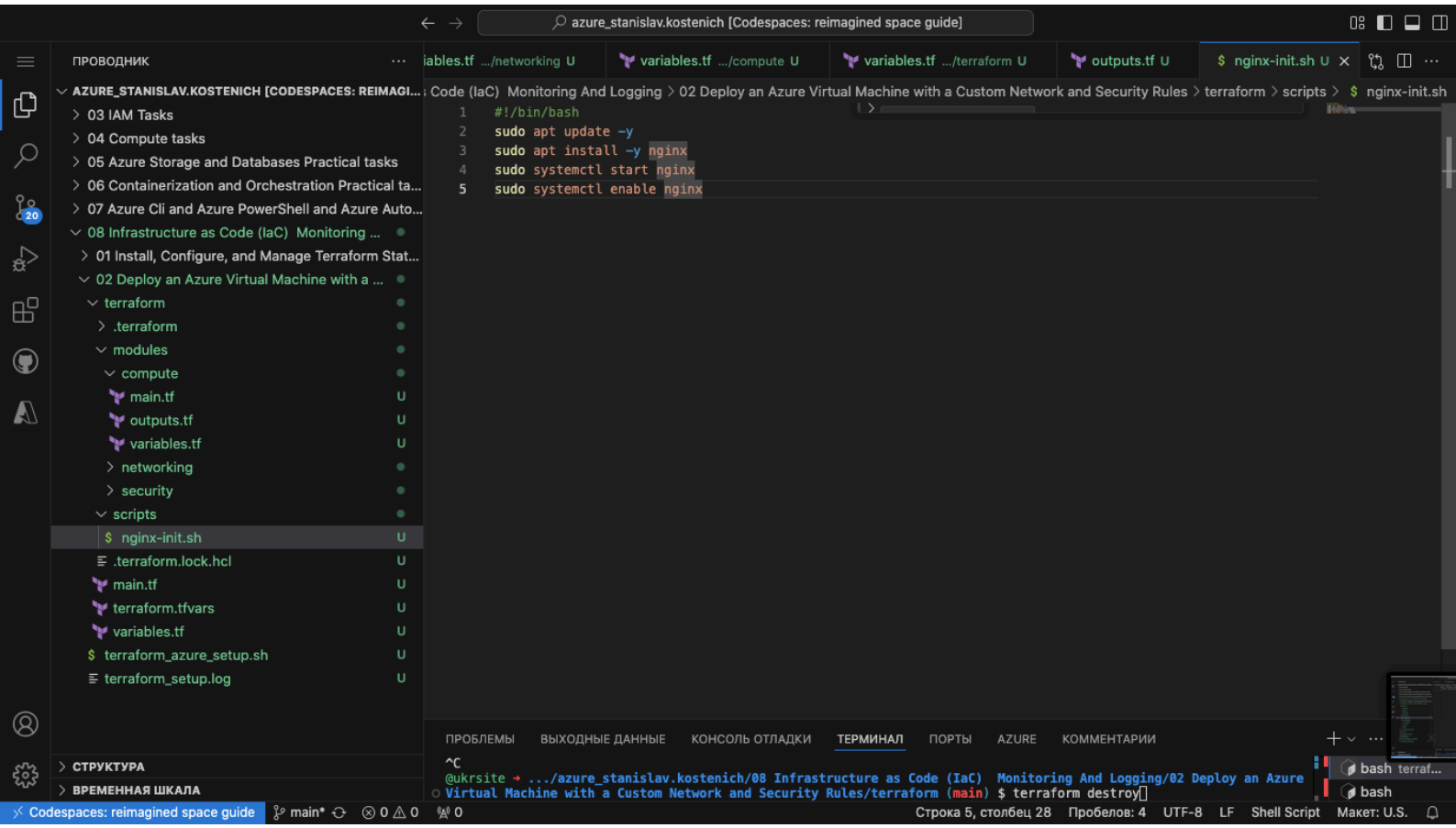
Extend the Terraform configuration to deploy:

- An **Azure Virtual Network (VNet)** with a **custom subnet**.
- A **Network Security Group (NSG)** with the following rules:
  - Allow **SSH (port 22) inbound** for a specific IP range.
  - Allow **HTTP (port 80) inbound** for all users.
  - Deny all other inbound traffic.
- A **Public IP Address** assigned to the VM.
- An **Azure Virtual Machine (VM)** using an Ubuntu image, attached to the subnet and NSG.
- A **Terraform output variable** to display the public IP of the VM after deployment.
- Use **Provisioners** to run a startup script that installs and starts an Nginx web server on the VM.
- Verify:
  - That SSH access works for the specified IP range.
  - That the Nginx web page is accessible via the VM's public IP.
- Destroy the infrastructure when complete.

Practical Task 3: Implement a Scalable Infrastructure with Load Balancer and Auto Scaling

Requirements:

Extend the Terraform configuration to create a **highly available infrastructure** by deploying: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terraform.tfvars
variables.tf
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terraform_setup.log
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ВРЕМЕННАЯ ШКАЛА
variables.tf .../networking U
variables.tf .../compute U
variables.tf .../terraform U
outputs.tf U
nginx-init.sh U
Code (IaC) Monitoring And Logging > 02 Deploy an Azure Virtual Machine with a Custom Network and Security Rules > terraform > scripts > nginx-init.sh
#!/bin/bash
sudo apt update -y
sudo apt install -y nginx
sudo systemctl start nginx
sudo systemctl enable nginx
ПРОБЛЕМЫ
ВЫХОДНЫЕ ДАННЫЕ
КОНСОЛЬ ОТЛАДКИ
ТЕРМИНАЛ
ПОРТЫ
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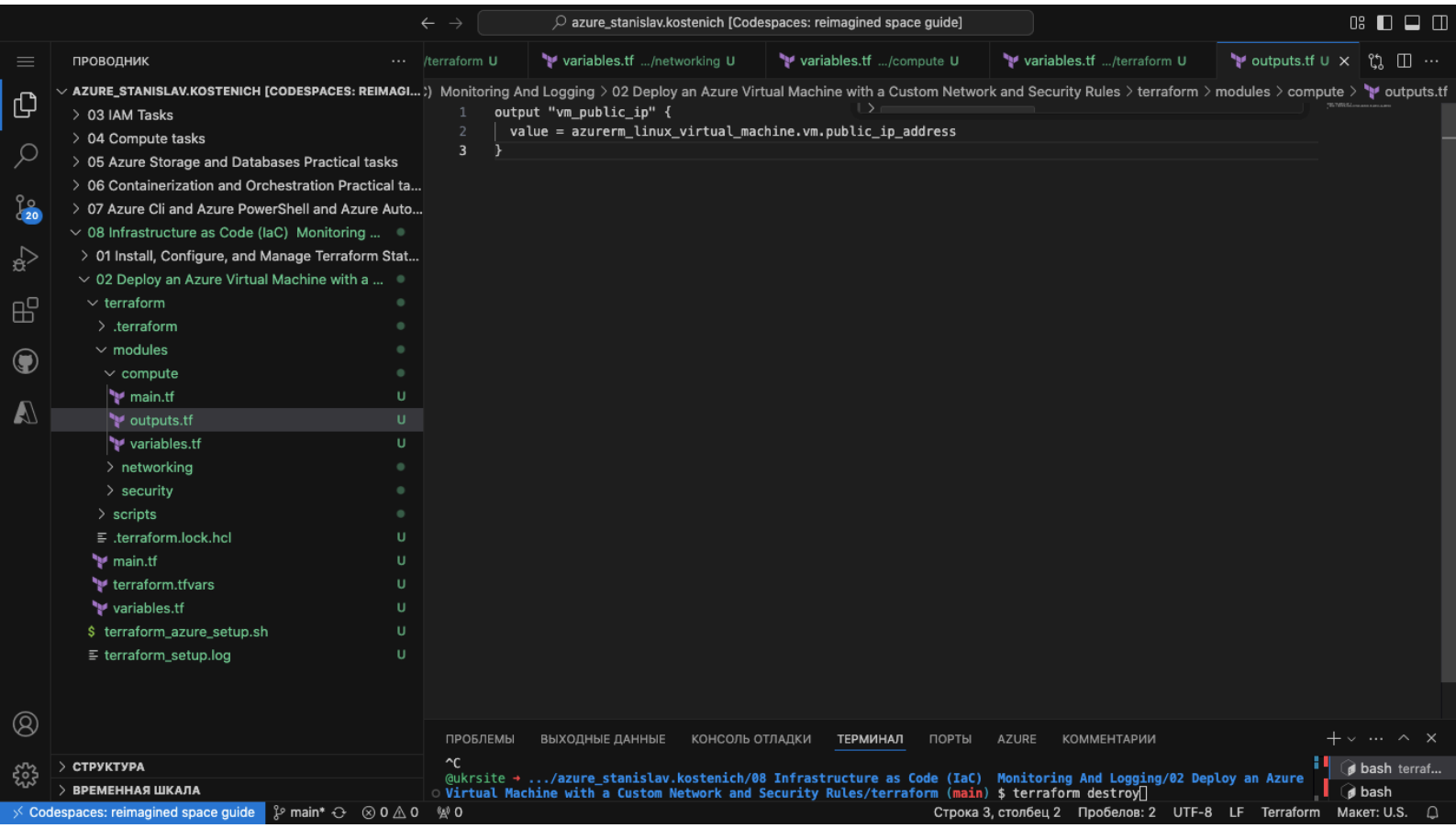
@ukrsite → .../azure_stanislav.kostenich/08 Infrastructure as Code (IaC) Monitoring And Logging/02 Deploy an Azure Virtual Machine with a Custom Network and Security Rules/terraform (main) $ terraform destroy
bash terraf...
bash
Codespaces: reimagined space guide
main*
Строка 5, столбец 28
Пробелов: 4
UTF-8
LF
Shell Script
Макет: U.S.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terraform.tfvars
variables.tf
terraform_azure_setup.sh
terraform_setup.log
/terraform U
variables.tf .../networking U
variables.tf .../compute U
variables.tf .../terraform U
outputs.tf U
Monitoring And Logging > 02 Deploy an Azure Virtual Machine with a Custom Network and Security Rules > terraform > modules > compute > outputs.tf
1 output "vm_public_ip" {
2 value = azurerm_linux_virtual_machine.vm.public_ip_address
3 }
ПРОБЛЕМЫ
ВЫХОДНЫЕ ДАННЫЕ
КОНСОЛЬ ОТЛАДКИ
ТЕРМИНАЛ
ПОРТЫ
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bash
СТРУКТУРА
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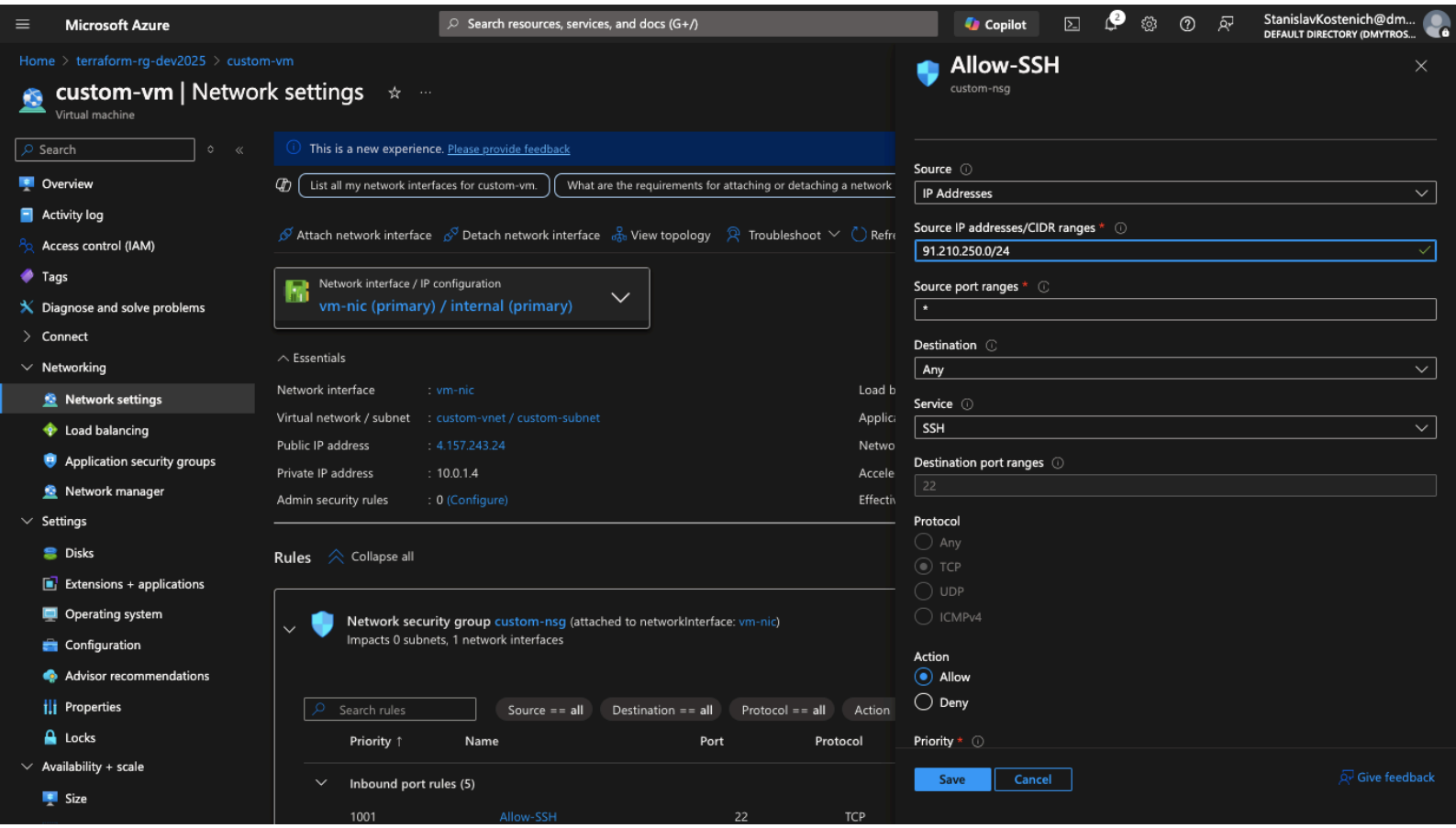
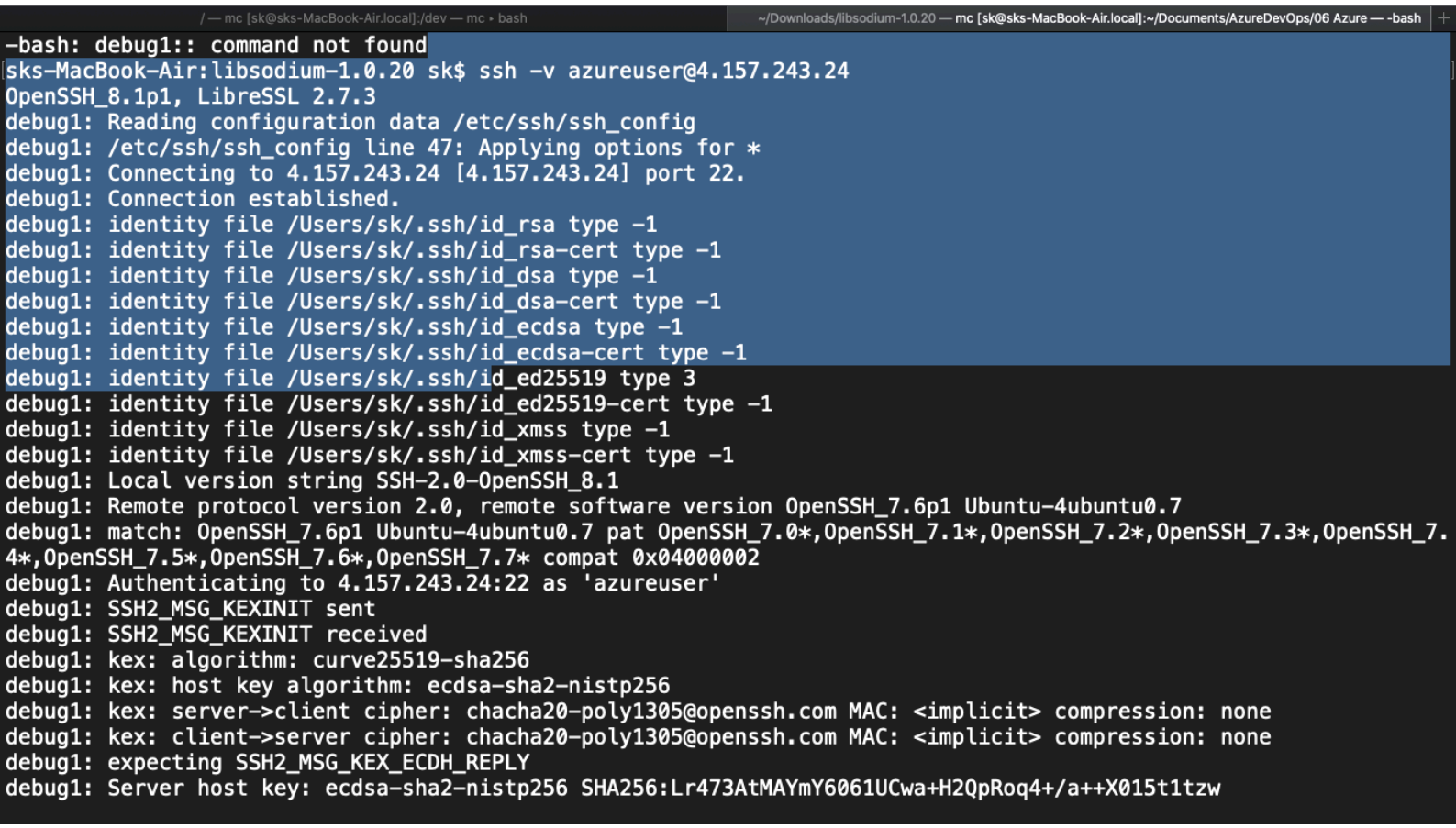
Codespaces: reimagined space guide
main*
Строка 3, столбец 2
Пробелов: 2
UTF-8
LF
Terraform
Макет: U.S.

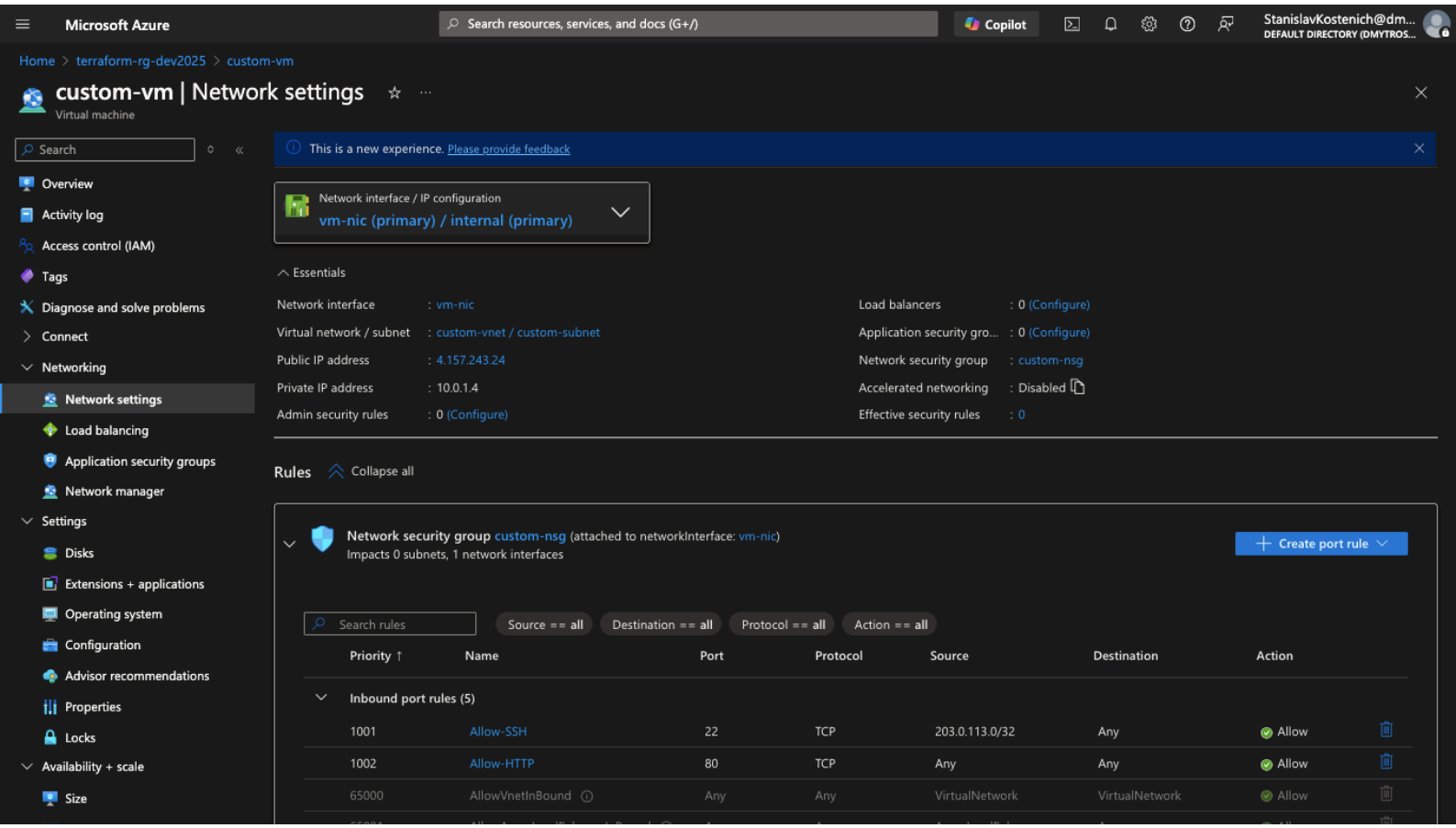

Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
StanislavKostenich@dm...
DEFAULT DIRECTORY (DMYTROS...
Home > terraform-rg-dev2025 > custom-vm
custom-vm | Network settings
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Network settings
Load balancing
Application security groups
Network manager
Settings
Disks
Extensions + applications
Operating system
Configuration
Advisor recommendations
Properties
Locks
Availability + scale
Size
This is a new experience. Please provide feedback
List all my network interfaces for custom-vm.
What are the requirements for attaching or detaching a network
Attach network interface
Detach network interface
View topology
Troubleshoot
Network interface / IP configuration
vm-nic (primary) / internal (primary)
Essentials
Network interface : vm-nic
Virtual network / subnet : custom-vnet / custom-subnet
Public IP address : 4.157.243.24
Private IP address : 10.0.1.4
Admin security rules : 0 (Configure)
Rules
Collapse all
Network security group custom-nsg (attached to networkInterface: vm-nic)
Impacts 0 subnets, 1 network interfaces
Search rules
Source == all
Destination == all
Protocol == all
Action
Priority
Name
Port
Protocol
Inbound port rules (5)
1001
Allow-SSH
22
TCP
Allow-SSH
custom-nsg
Source
IP Addresses
Source IP addresses/CIDR ranges *
91.210.250.0/24
Source port ranges *
*
Destination
Any
Service
SSH
Destination port ranges
22
Protocol
Any
TCP
UDP
ICMPv4
Action
Allow
Deny
Priority *
Save
Cancel
Give feedback


/ — mc [sk@sks-MacBook-Air.local]:/dev — mc ▸ bash
~/Downloads/libsodium-1.0.20 — mc [sk@sks-MacBook-Air.local]:~/Documents/AzureDevOps/06 Azure — -bash
-bash: debug1:: command not found
sks-MacBook-Air:libsodium-1.0.20 sk$ ssh -v azureuser@4.157.243.24
OpenSSH_8.1p1, LibreSSL 2.7.3
debug1: Reading configuration data /etc/ssh/ssh_config
debug1: /etc/ssh/ssh_config line 47: Applying options for *
debug1: Connecting to 4.157.243.24 [4.157.243.24] port 22.
debug1: Connection established.
debug1: identity file /Users/sk/.ssh/id_rsa type -1
debug1: identity file /Users/sk/.ssh/id_rsa-cert type -1
debug1: identity file /Users/sk/.ssh/id_dsa type -1
debug1: identity file /Users/sk/.ssh/id_dsa-cert type -1
debug1: identity file /Users/sk/.ssh/id_ecdsa type -1
debug1: identity file /Users/sk/.ssh/id_ecdsa-cert type -1
debug1: identity file /Users/sk/.ssh/id_ed25519 type 3
debug1: identity file /Users/sk/.ssh/id_ed25519-cert type -1
debug1: identity file /Users/sk/.ssh/id_xmss type -1
debug1: identity file /Users/sk/.ssh/id_xmss-cert type -1
debug1: Local version string SSH-2.0-OpenSSH_8.1
debug1: Remote protocol version 2.0, remote software version OpenSSH_7.6p1 Ubuntu-4ubuntu0.7
debug1: match: OpenSSH_7.6p1 Ubuntu-4ubuntu0.7 pat OpenSSH_7.0*,OpenSSH_7.1*,OpenSSH_7.2*,OpenSSH_7.3*,OpenSSH_7.
4*,OpenSSH_7.5*,OpenSSH_7.6*,OpenSSH_7.7* compat 0x04000002
debug1: Authenticating to 4.157.243.24:22 as 'azureuser'
debug1: SSH2_MSG_KEXINIT sent
debug1: SSH2_MSG_KEXINIT received
debug1: kex: algorithm: curve25519-sha256
debug1: kex: host key algorithm: ecdsa-sha2-nistp256
debug1: kex: server->client cipher: chacha20-poly1305@openssh.com MAC: <implicit> compression: none
debug1: kex: client->server cipher: chacha20-poly1305@openssh.com MAC: <implicit> compression: none
debug1: expecting SSH2_MSG_KEX_ECDH_REPLY
debug1: Server host key: ecdsa-sha2-nistp256 SHA256:Lr473AtMAYmY6061UCwa+H2QpRoq4+/a++X015t1tzw

```
< Accept-Ranges: bytes
<
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
    }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
* Connection #0 to host 4.157.243.24 left intact
* Closing connection 0
sks-MacBook-Air:libsodium-1.0.20 sk$
```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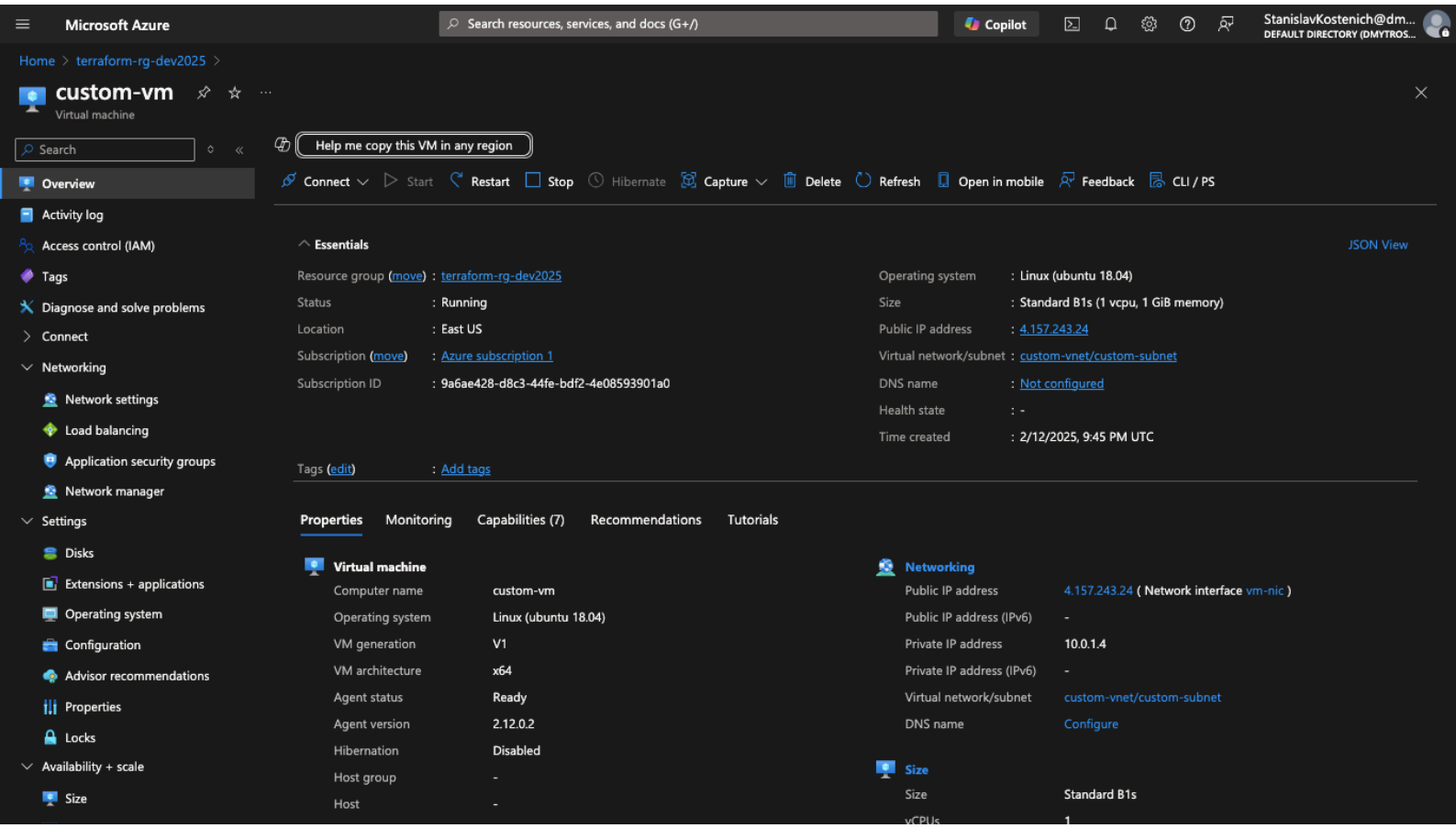
Admin security rules : 0 (Configure)
Load balancers : 0 (Configure)
Application security gro... : 0 (Configure)
Network security group : custom-nsg
Accelerated networking : Disabled
Effective security rules : 0
Rules
Collapse all
Network security group custom-nsg (attached to networkInterface: vm-nic)
Impacts 0 subnets, 1 network interfaces
Create port rule
Search rules
Source == all
Destination == all
Protocol == all
Action == all
Priority
Name
Port
Protocol
Source
Destination
Action
Inbound port rules (5)
1001 Allow-SSH 22 TCP 203.0.113.0/32 Any Allow
1002 Allow-HTTP 80 TCP Any Any Allow
65000 AllowVnetInBound Any Any VirtualNetwork VirtualNetwork Allow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Network manager
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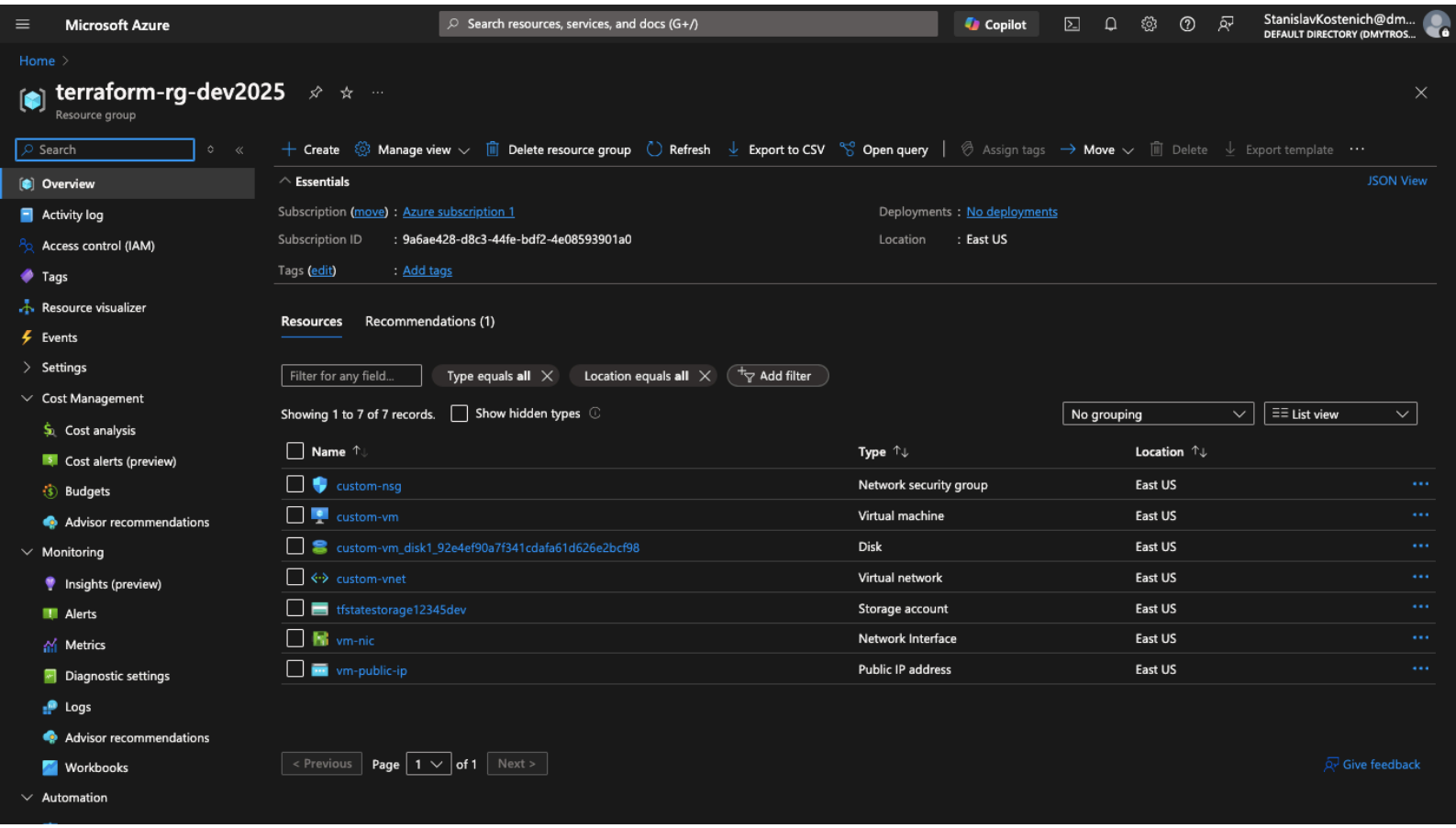
Size
Help me copy this VM in any region
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Essentials
JSON View
Resource group (move) : terraform-rg-dev2025
Status : Running
Location : East US
Subscription (move) : Azure subscription 1
Subscription ID : 9a6ae428-d8c3-44fe-bdf2-4e08593901a0
Operating system : Linux (ubuntu 18.04)
Size : Standard B1s (1 vcpu, 1 GiB memory)
Public IP address : 4.157.243.24
Virtual network/subnet : custom-vnet/custom-subnet
DNS name : Not configured
Health state : -
Time created : 2/12/2025, 9:45 PM UTC
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name custom-vm
Operating system Linux (ubuntu 18.04)
VM generation V1
VM architecture x64
Agent status Ready
Agent version 2.12.0.2
Hibernation Disabled
Host group -
Host -
Networking
Public IP address 4.157.243.24 (Network interface vm-nic)
Public IP address (IPv6) -
Private IP address 10.0.1.4
Private IP address (IPv6) -
Virtual network/subnet custom-vnet/custom-subnet
DNS name Configure
Size
Size Standard B1s
vCPUs 1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Cost alerts (preview)
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Insights (preview)
Alerts
Metrics
Diagnostic settings
Logs
Advisor recommendations
Workbooks
Automation
Create
Manage view
Delete resource group
Refresh
Export to CSV
Open query
Assign tags
Move
Delete
Export template
Essentials
JSON View
Subscription (move) : Azure subscription 1
Subscription ID : 9a6ae428-d8c3-44fe-bdf2-4e08593901a0
Tags (edit) : Add tags
Deployments : No deployments
Location : East US
Resources
Recommendations (1)
Filter for any field...
Type equals all
Location equals all
Add filter
Showing 1 to 7 of 7 records.
Show hidden types
No grouping
List view
Name
Type
Location
custom-nsg
Network security group
East US
custom-vm
Virtual machine
East US
custom-vm_disk1_92e4ef90a7f341cdafa61d626e2bcf98
Disk
East US
custom-vnet
Virtual network
East US
tfstatestorage12345dev
Storage account
East US
vm-nic
Network Interface
East US
vm-public-ip
Public IP address
East US
< Previous
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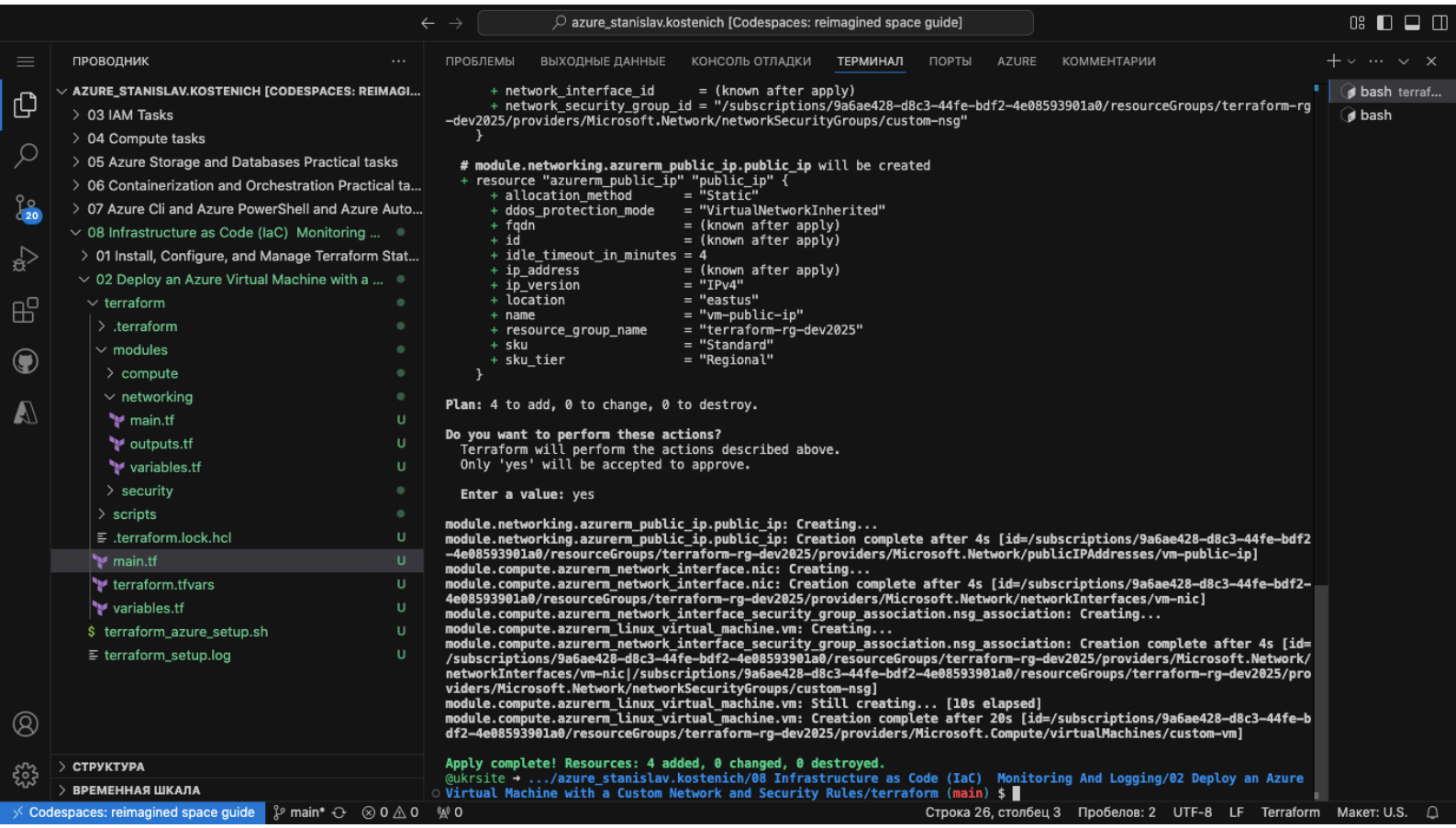
Give feedback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ВЫХОДНЫЕ ДАННЫЕ
КОНСОЛЬ ОТЛАДКИ
ТЕРМИНАЛ
ПОРТЫ
AZURE
КОММЕНТАРИИ
bash terraf...
bash
+ network_interface_id = (known after apply)
+ network_security_group_id = "/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/terraform-rg-dev2025/providers/Microsoft.Network/networkSecurityGroups/custom-nsg"
# module.networking.azurerm_public_ip.public_ip will be created
+ resource "azurerm_public_ip" "public_ip" {
+ allocation_method = "Static"
+ ddos_protection_mode = "VirtualNetworkInherited"
+ fqdn = (known after apply)
+ id = (known after apply)
+ idle_timeout_in_minutes = 4
+ ip_address = (known after apply)
+ ip_version = "IPv4"
+ location = "eastus"
+ name = "vm-public-ip"
+ resource_group_name = "terraform-rg-dev2025"
+ sku = "Standard"
+ sku_tier = "Regional"
Plan: 4 to add, 0 to change, 0 to destroy.
Do you want to perform these actions?
Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.
Enter a value: yes
module.networking.azurerm_public_ip.public_ip: Creating...
module.networking.azurerm_public_ip.public_ip: Creation complete after 4s [id=/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/terraform-rg-dev2025/providers/Microsoft.Network/publicIPAddresses/vm-public-ip]
module.compute.azurerm_network_interface.nic: Creating...
module.compute.azurerm_network_interface.nic: Creation complete after 4s [id=/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/terraform-rg-dev2025/providers/Microsoft.Network/networkInterfaces/vm-nic]
module.compute.azurerm_network_interface_security_group_association.nsg_association: Creating...
module.compute.azurerm_linux_virtual_machine.vm: Creating...
module.compute.azurerm_network_interface_security_group_association.nsg_association: Creation complete after 4s [id=/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/terraform-rg-dev2025/providers/Microsoft.Network/networkInterfaces/vm-nic|/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/terraform-rg-dev2025/providers/Microsoft.Network/networkSecurityGroups/custom-nsg]
module.compute.azurerm_linux_virtual_machine.vm: Still creating... [10s elapsed]
module.compute.azurerm_linux_virtual_machine.vm: Creation complete after 20s [id=/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/terraform-rg-dev2025/providers/Microsoft.Compute/virtualMachines/custom-vm]
Apply complete! Resources: 4 added, 0 changed, 0 destroyed.
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Codespaces: reimagined space guide
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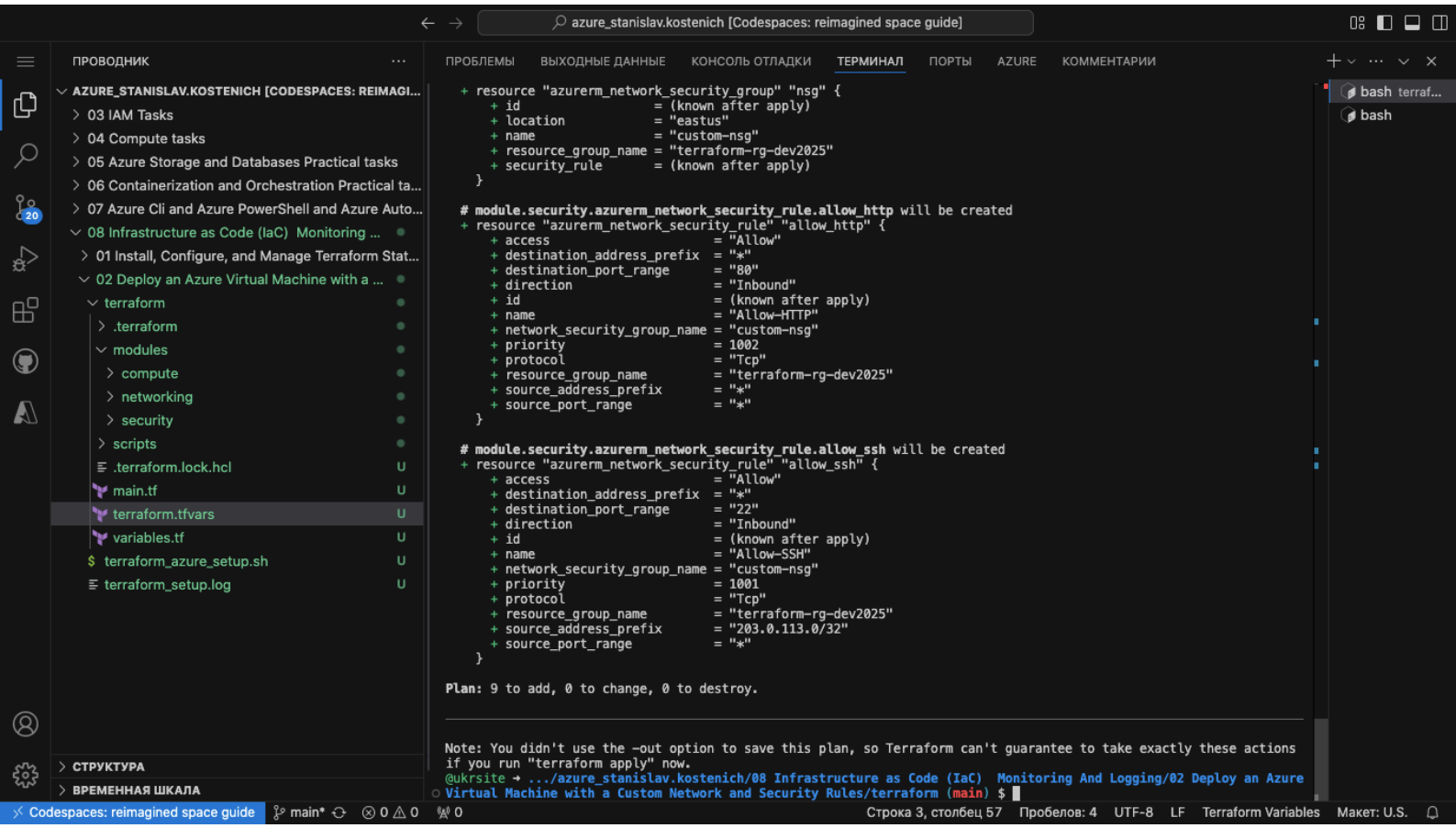
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ВЫХОДНЫЕ ДАННЫЕ
КОНСОЛЬ ОТЛАДКИ
ТЕРМИНАЛ
ПОРТЫ
AZURE
КОММЕНТАРИИ
bash terraf...
bash
+ resource "azurerm_network_security_group" "nsg" {
+ id = (known after apply)
+ location = "eastus"
+ name = "custom-nsg"
+ resource_group_name = "terraform-rg-dev2025"
+ security_rule = (known after apply)
}
# module.security.azurerm_network_security_rule.allow_http will be created
+ resource "azurerm_network_security_rule" "allow_http" {
+ access = "Allow"
+ destination_address_prefix = "*"
+ destination_port_range = "80"
+ direction = "Inbound"
+ id = (known after apply)
+ name = "Allow-HTTP"
+ network_security_group_name = "custom-nsg"
+ priority = 1002
+ protocol = "Tcp"
+ resource_group_name = "terraform-rg-dev2025"
+ source_address_prefix = "*"
+ source_port_range = "*"
}
# module.security.azurerm_network_security_rule.allow_ssh will be created
+ resource "azurerm_network_security_rule" "allow_ssh" {
+ access = "Allow"
+ destination_address_prefix = "*"
+ destination_port_range = "22"
+ direction = "Inbound"
+ id = (known after apply)
+ name = "Allow-SSH"
+ network_security_group_name = "custom-nsg"
+ priority = 1001
+ protocol = "Tcp"
+ resource_group_name = "terraform-rg-dev2025"
+ source_address_prefix = "203.0.113.0/32"
+ source_port_range = "*"
}
Plan: 9 to add, 0 to change, 0 to destroy.
Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
@ukrsite → .../azure_stanislav.kostenich/08 Infrastructure as Code (IaC) Monitoring And Logging/02 Deploy an Azure Virtual Machine with a Custom Network and Security Rules/terraform (main) $
Codespaces: reimagined space guide
main*
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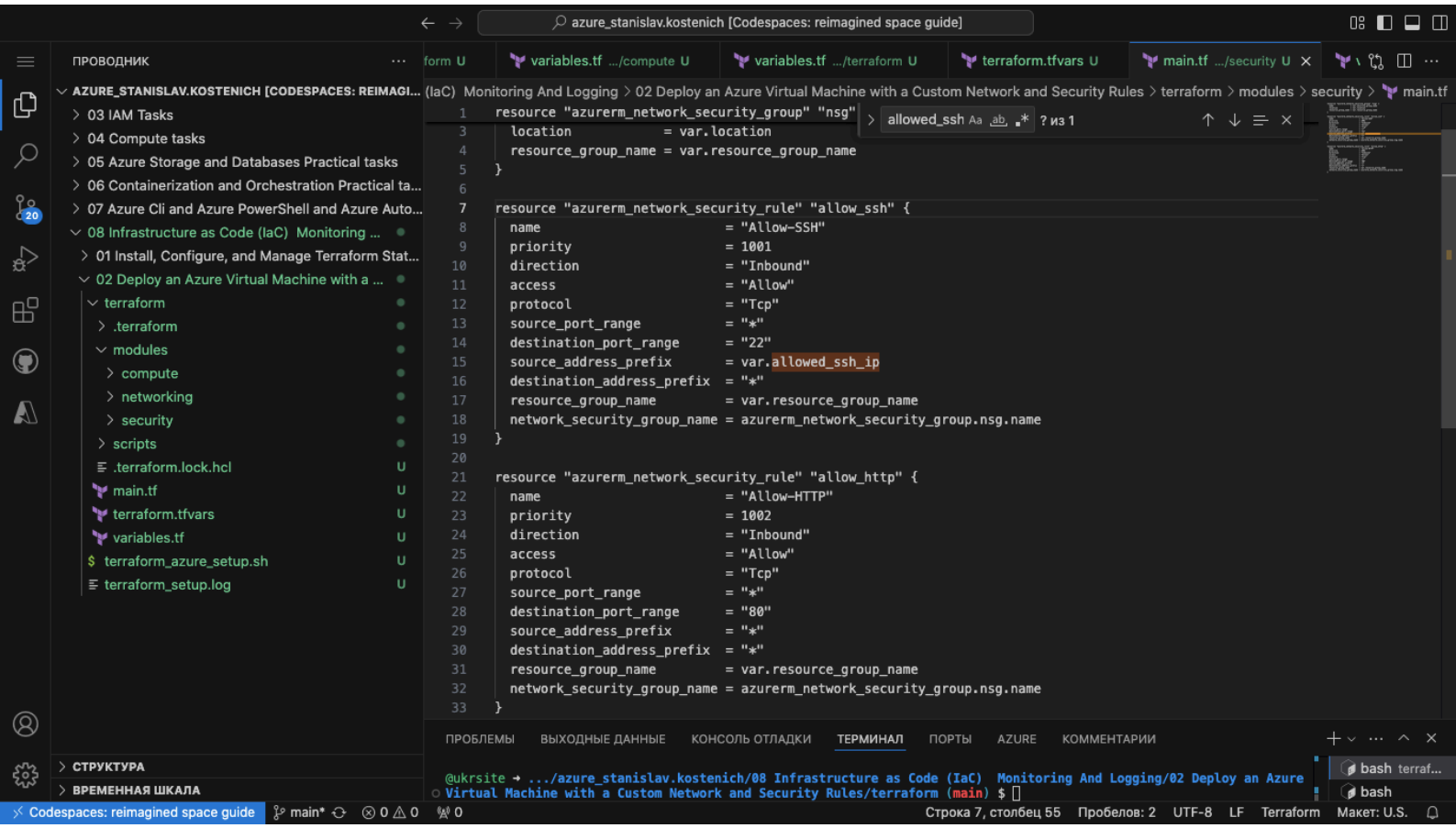
Terraform Variables
Макет: U.S.


azure_stanislav.kostenich [Codespaces: reimagined space guide]
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(IaC) Monitoring And Logging > 02 Deploy an Azure Virtual Machine with a Custom Network and Security Rules > terraform > modules > security > main.tf
allowed_ssh
? из 1
resource "azurerm_network_security_group" "nsg" {
location = var.location
resource_group_name = var.resource_group_name
}
resource "azurerm_network_security_rule" "allow_ssh" {
name = "Allow-SSH"
priority = 1001
direction = "Inbound"
access = "Allow"
protocol = "Tcp"
source_port_range = "*"
destination_port_range = "22"
source_address_prefix = var.allowed_ssh_ip
destination_address_prefix = "*"
resource_group_name = var.resource_group_name
network_security_group_name = azurerm_network_security_group.nsg.name
}
resource "azurerm_network_security_rule" "allow_http" {
name = "Allow-HTTP"
priority = 1002
direction = "Inbound"
access = "Allow"
protocol = "Tcp"
source_port_range = "*"
destination_port_range = "80"
source_address_prefix = "*"
destination_address_prefix = "*"
resource_group_name = var.resource_group_name
network_security_group_name = azurerm_network_security_group.nsg.name
}
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ВЫХОДНЫЕ ДАННЫЕ
КОНСОЛЬ ОТЛАДКИ
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ПОРТЫ
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@ukrsite → .../azure_stanislav.kostenich/08 Infrastructure as Code (IaC) Monitoring And Logging/02 Deploy an Azure Virtual Machine with a Custom Network and Security Rules/terraform (main) $
bash terraf...
bash
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main*
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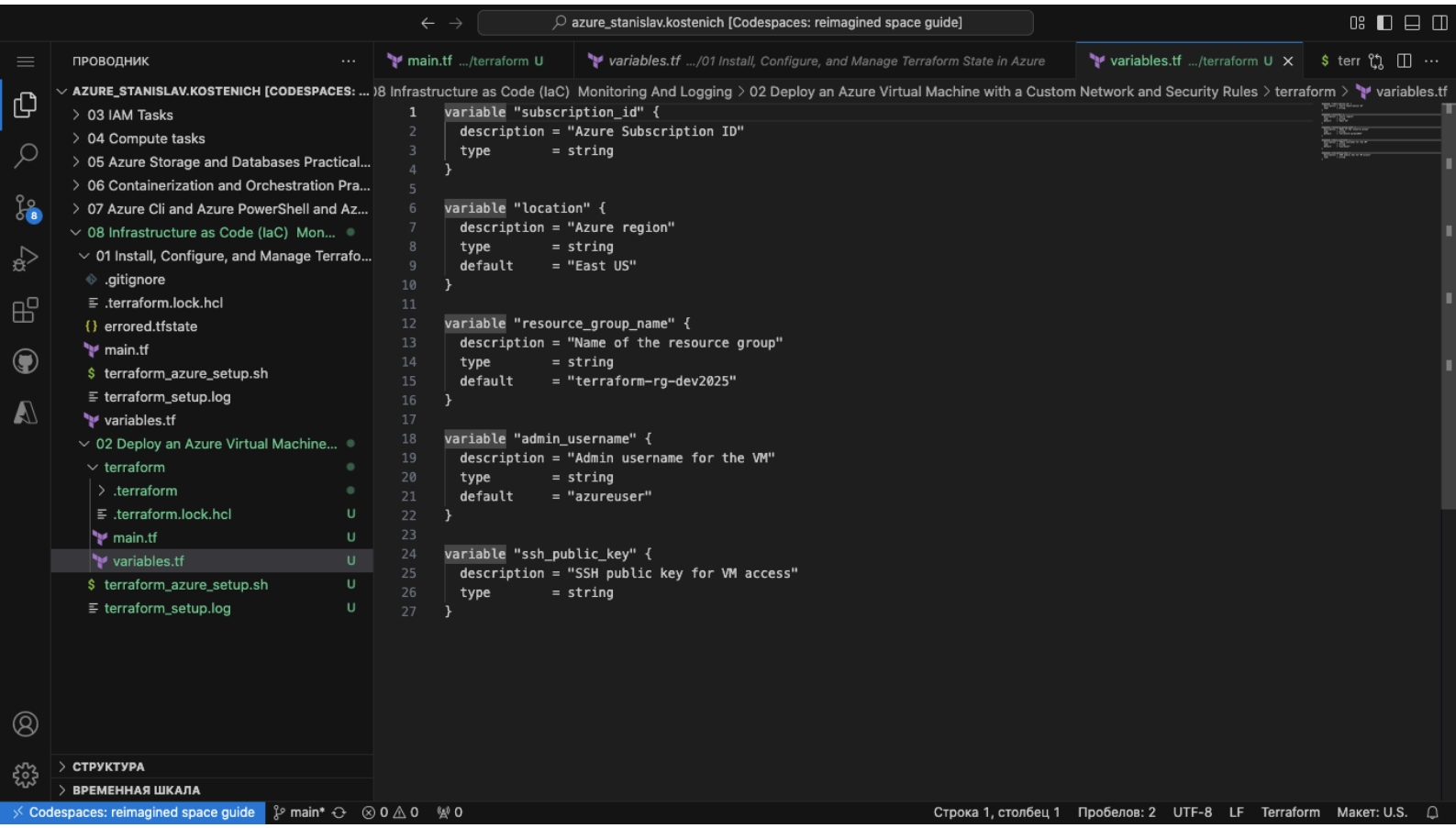
Terraform
Макет: U.S.


azure_stanislav.kostenich [Codespaces: reimagined space guide]
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variables.tf .../01 Install, Configure, and Manage Terraform State in Azure
variables.tf .../terraform U
8 Infrastructure as Code (IaC) Monitoring And Logging > 02 Deploy an Azure Virtual Machine with a Custom Network and Security Rules > terraform > variables.tf
variable "subscription_id" {
description = "Azure Subscription ID"
type = string
}
variable "location" {
description = "Azure region"
type = string
default = "East US"
}
variable "resource_group_name" {
description = "Name of the resource group"
type = string
default = "terraform-rg-dev2025"
}
variable "admin_username" {
description = "Admin username for the VM"
type = string
default = "azureuser"
}
variable "ssh_public_key" {
description = "SSH public key for VM access"
type = string
}
Codespaces: reimagined space guide
main*
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UTF-8
LF
Terraform
Макет: U.S.