

Anarion Technologies – Apache Guacamole

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Apache Guacamole v1.6.0 on Ubuntu26

by Anarion Technologies
Virtual Machines

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Production Ready VM on Ubuntu26.04 LTS + Free Support

Apache Guacamole is an innovative, clientless remote desktop gateway that simplifies the process of accessing and managing remote desktops and servers. Unlike traditional remote access solutions that require the installation of client software on the user's device, Guacamole operates entirely within a web browser. This eliminates compatibility issues and provides seamless access from virtually any device with an internet connection, making it an ideal solution for modern, distributed work environments.

One of the key strengths of Apache Guacamole is its support for a wide range of standard protocols, including VNC (Virtual Network Computing), RDP (Remote Desktop Protocol), and SSH (Secure Shell). This versatility ensures that Guacamole can be used to connect to a variety of systems, whether they are Windows, macOS, Linux, or Unix-based. Users can securely access their desktops and servers from anywhere, enhancing productivity and flexibility, especially in scenarios that require remote work or management of geographically dispersed resources.

Click on Create

Home

Apache Guacamole v1.6.0 on Ubuntu26

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Subscription

Azure subscription 1

Plan

Apache Guacamole on Ubuntu26

Create

Start with a pre-set configuration

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Overview

Plans + Pricing

Usage Information + Support

Ratings + Reviews

Apache Guacamole is an innovative, clientless remote desktop gateway that simplifies the process of accessing and managing remote desktops and servers. Unlike traditional remote access solutions that require the installation of client software on the user's device, Guacamole operates entirely within a web browser. This eliminates compatibility issues and provides seamless access from virtually any device with an internet connection, making it an ideal solution for modern, distributed work environments.

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Guacamole's architecture is designed with security and ease of management in mind. It acts as a gateway, isolating the user's device from direct contact with the remote systems. This adds a layer of security by minimizing the exposure of sensitive systems to potential threats. Additionally, Guacamole supports multi-factor authentication (MFA) and can be integrated with existing authentication systems, further strengthening security. For IT administrators, the central management of remote access policies and user permissions through a web-based interface simplifies administration and ensures compliance with organizational security policies.

Deployment and scalability are also major advantages of Apache Guacamole. Being a web application, it can be easily deployed on-premises or in the cloud, and it scales

Create a virtual machine, enter or select appropriate values for zone, machine type, resource group and so on as per your choice.

Create a virtual machine

Basics

Disks

Networking

Management

Advanced

Tags

Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Azure subscription 1

Resource group *

Demo

[Create new](#)

Instance details

Virtual machine name *

Demo

Region *

(US) East US

Review + create

< Previous

Next : Disks >

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

Disk options

OS disk type * ⓘ Premium SSD (locally-redundant storage) ▼

Encryption type * (Default) Encryption at-rest with a platform-managed key ▼

Enable Ultra Disk compatibility ⓘ ☐
Ultra disk is available only for Availability Zones in eastus.

Data disks

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

i Adding unmanaged data disks is currently not supported at the time of VM creation. You can add them after the VM is

Review + create

< Previous

Next : Networking >

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * ⓘ (new) Demo-vnet ▼
[Create new](#)

Subnet * ⓘ (new) default (10.1.0.0/24) ▼

Public IP ⓘ (new) Demo-ip ▼
[Create new](#)

NIC network security group ⓘ
☐ None
☒ Basic
☐ Advanced

Review + create

< Previous

Next : Management >

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Configure monitoring and management options for your VM.

Azure Security Center

Azure Security Center provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

✓ Your subscription is protected by Azure Security Center basic plan.

Monitoring

Boot diagnostics ⓘ ☐ On
☒ Off

Enable OS guest diagnostics ⓘ ☐

Identity

[Review + create](#)

[< Previous](#)

[Next : Advanced >](#)

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
		12 selected v

[Review + create](#)

[< Previous](#)

[Next : Review + create >](#)

[Home](#) >

Create a virtual machine

✓ Validation passed

Basics Disks Networking Management Monitoring Advanced Tags **Review + create**

i Cost given below is an estimate and not the final price. For all your pricing needs, please use the pricing calculator. [↗](#)

Price

1 X Standard B1s

by Microsoft

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Subscription credits apply ⓘ

0.8652 INR/hr

[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

< Previous

Next >

Create

After Process of Create Virtual Machine. You have got an Option Go to Resource Group

Click Go to Resource Group

Click on the Network Security Group: apacheagua-nsg

The screenshot shows the Azure portal interface for a resource group named 'Demo'. The left sidebar contains navigation options: Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Deployments, Security, Deployment stacks, Policies, Properties, Locks, and Cost Management. The main area displays the 'Essentials' section with a 'Resources' tab selected. A table lists the resources in the group:

Name	Type	Location
Demo	Virtual machine	East US
Demo-ip	Public IP address	East US
Demo-nsg	Network security group	East US
Demo-vnet	Virtual network	East US
demo836	Network interface	East US
demodisks907	Storage account	East US

Click on Inbound Security Rule

Demo-nsg

Network security group

Search

MoveDeleteRefreshGive feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Monitoring

Automation

Help

Essentials

Resource group (move): Demo

Location: East US

Subscription (move): Azure subscription 1

Subscription ID: a760e611-6976-440d-8f1c-99a875a6f9ea

Tags (edit): Add tags

Custom security rules: 3 inbound, 0 outbound

Associated with: 0 subnets, 1 network interfaces

JSON View

Filter by name

Port == allProtocol == allSource == allDestination == allAction == all

Priority ↑↓	Name ↑↓	Port ↑↓	Protocol ↑↓	Source ↑↓	Destination ↑↓	Action ↑↓
Inbound Security Rules						
300	HTTP	80	TCP	Any	Any	Allow
320	HTTPS	443	TCP	Any	Any	Allow
340	SSH	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Click on Add

Demo-nsg | Inbound security rules

Network security group

Search

AddHide default rulesRefreshDeleteGive feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Monitoring

Network security group security rules are evaluated by priority using the combination of source, source port, destination, destination port, and protocol to allow or deny the traffic. A security rule can't have the same priority and direction as an existing rule. You can't delete default security rules, but you can override them with rules that have a higher priority. [Learn more](#)

Filter by name

Port == allProtocol == allSource == allDestination == allAction == all

Priority ↑↓	Name ↑↓	Port ↑↓	Protocol ↑↓	Source ↑↓	Destination ↑↓	Action ↑↓
☐ 300	HTTP	80	TCP	Any	Any	Allow
☐ 320	HTTPS	443	TCP	Any	Any	Allow
☐ 340	SSH	22	TCP	Any	Any	Allow
☐ 65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
☐ 65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
☐ 65500	DenyAllInBound	Any	Any	Any	Any	Deny

Add Port



Add inbound security rule

Sonar-VM-nsg



Source ⓘ

Any

Source port ranges * ⓘ

*

Destination ⓘ

Any

Service ⓘ

Custom

Destination port ranges * ⓘ

8080

Protocol

☒ Any

☐ TCP

☐ UDP

☐ ICMPv4

Action

☒ Allow

☐ Deny

Add

Cancel

 Give feedback

Add Port

Destination Port Ranges Section* (where default value is 8080)

8080

Select Protocol as TCP

Option Action is to be Allow

Click on Add

Click on Refresh

Copy the Public IP Address

SSH into Terminal and Run these following Commands:

\$ ssh username@instance ip address

\$ sudo su

\$ cd ../..

Start Database

\$ docker start guacamole-db

Then guacd:

\$ docker start guacd

```
root@testing:/# docker start guacamole-db
guacamole-db
root@testing:/# docker start guacd
guacd
```

Check :

**\$ docker inspect guacd --format='Status={{.State.Status}}
Health={{.State.Health.Status}}'**

\$ sleep 10

**\$ docker inspect guacd --format='Status={{.State.Status}}
Health={{.State.Health.Status}}'**

Start Guacamole:

\$ docker start guacamole


```

root@testing:/# docker inspect guacd --format='Status={{.State.Status}} Health={{.State.Health.Status}}'
Status=running Health=starting
root@testing:/# sleep 10
root@testing:/# docker inspect guacd --format='Status={{.State.Status}} Health={{.State.Health.Status}}'
Status=running Health=starting
root@testing:/# docker start guacamole
guacamole

```

\$ docker ps

\$ docker port guacamole

```

root@testing:/# docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS              PORTS
e23e5cc6fd9e   guacamole/guacamole:1.6.0          "/opt/guacamole/bin/_" 3 weeks ago   Up 5 seconds       0.0.0.0:8080->8080/tcp, [::]:8080->8080
7f26d408ff4d   guacamole/guacd:1.6.0              "/opt/guacamole/entr-" 3 weeks ago   Up 44 seconds (health: starting) 4822/tcp
76faee8dbea    mariadb:11                          "docker-entrypoint.s-" 3 weeks ago   Up 50 seconds       3306/tcp
guacamole-db
root@testing:/# docker port guacamole
8080/tcp -> 0.0.0.0:8080
8080/tcp -> [::]:8080

```

Verify the Admin Application

Open your web browser and navigate to: <http://instance ip address:8080/guacamole/>

Use Login Credentials:

Username: guacadmin

Password: guacadmin



APACHE GUACAMOLE

Login

Welcome to the dashboard.

RECENT CONNECTIONS

 guacadmin ▾

No recent connections.

ALL CONNECTIONS

 Filter

SETTINGS

guacadmin

Active Sessions

History

Users

Groups

Connections

Preferences

This page will be populated with currently-active connections. The connections listed and the ability to kill those connections is dependent upon your access level. If you wish to kill one or more sessions, check the box next to those sessions and click "Kill Sessions". Killing a session will immediately disconnect the user from the associated connection.

Kill Sessions

Filter

	Username	Active since	Remote host	Connection name
No active sessions				

User portal

SETTINGS

guacadmin

Active Sessions

History

Users

Groups

Connections

Preferences

Click or tap on a user below to manage that user. Depending on your access level, users can be added and deleted, and their passwords can be changed.

New User

Filter

Username	Organization	Full name	Last active
guacadmin			2026-08-14 17:01:26

Here, update password.

SETTINGS

guacadmin

Active Sessions

History

Users

Groups

Connections

Preferences

Options below are related to the locale of the user and will impact how various parts of the interface are displayed.

Display language:

Timezone:

Asia

Calcutta

APPEARANCE

Here you can enable or disable whether the "Recent Connections" section is shown on the home screen, and adjust the number of recent connections included.

Display Recent Connections:

Number of Recent Connections to show:

6

CHANGE PASSWORD

If you wish to change your password, enter your current password and the desired new password below, and click "Update Password". The change will take effect immediately.

Current Password:

New Password:

Confirm New Password:

Update Password

DEFAULT INPUT METHOD

Thanks!!!