



Git / GitHub Integration

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Create a Centos VM in Azure platform and connect SSh connection

The screenshot displays the Microsoft Azure portal interface. The browser address bar shows the URL: portal.azure.com/#@vjm16392outlook.onmicrosoft.com/resource/subscriptions/8941d68f-493b-486e-8689-4c5390547a06/resourcegroups/vjmuser/provider.... The page title is "centosvm - Microsoft Azure". The breadcrumb navigation shows: Home > CreateVm-OpenLogic.CentOS-7_9-gen2-20220929165510 | Overview >.

The main content area shows the "centosvm" virtual machine. The left sidebar contains the following navigation items: Overview (selected), Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Connect, Disks, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, Continuous delivery, and Availability + scaling.

The "Overview" tab is active, displaying the following details:

- SSH** (selected in the left menu):
 - Connect: [user](#)
 - Restart: [Restart](#)
 - Stop: [Stop](#)
 - Capture: [Capture](#)
 - Delete: [Delete](#)
 - Refresh: [Refresh](#)
 - Open in mobile: [Open in mobile](#)
 - CLI / PS: [CLI / PS](#)
 - Feedback: [Feedback](#)
- Location**: Central India (Zone 1)
- Subscription (move)**: [Free Trial](#)
- Subscription ID**: 8941d68f-493b-486e-8689-4c5390547a06
- Availability zone**: 1
- Tags (edit)**: centosvm : 1.0

The right sidebar shows the following details:

- Operating system**: Linux (centos 7.9.2009)
- Size**: Standard B1s (1 vcpu, 1 GiB memory)
- Public IP address**: [4.240.90.47](#)
- Virtual network/subnet**: [vjmuser-vnet/default](#)
- DNS name**: [Not configured](#)

The bottom section shows the "Properties" tab, which includes the following details:

- Virtual machine**:
 - Computer name: centosvm
 - Health state: -
 - Operating system: Linux (centos 7.9.2009)
 - Publisher: OpenLogic
 - Offer: CentOS
- Networking**:
 - Public IP address: [4.240.90.47](#)
 - Public IP address (IPv6): -
 - Private IP address: 10.0.0.4
 - Private IP address (IPv6): -
 - Virtual network/subnet: [vjmuser-vnet/default](#)

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the date and time: 6:44 PM, 29-Sep-22.

Goto github.com
and create a new
repository
**Note: don't
check the
README.md File**

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner * Repository name *

vishu16392 / testing one ✓

Great repository names are: Your new repository will be created as testing-one, about studios-doodle?

Description (optional)

☒ Public
Anyone on the internet can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

☐ Add a README file
This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Once your repository
created successfully
then go to your
terminal and connect
your terminal
through azure VM

```
azureuser@centosvm:~/simpli X + v
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\admin> cd desktop
PS C:\Users\admin\Desktop> ssh -i centosvm_key.pem azureuser@4.240.90.47
Last login: Thu Sep 29 12:25:26 2022 from 223.236.41.206
[azureuser@centosvm ~]$ mkdir git
mkdir: cannot create directory 'git': File exists
[azureuser@centosvm ~]$ ls
file1.txt  git  README.md
[azureuser@centosvm ~]$ rm file1.txt
[azureuser@centosvm ~]$ ls
git  README.md
[azureuser@centosvm ~]$ rm git README.md
rm: cannot remove 'git': Is a directory
[azureuser@centosvm ~]$ ls
git
[azureuser@centosvm ~]$ rm git
rm: cannot remove 'git': Is a directory
[azureuser@centosvm ~]$ ls
git
[azureuser@centosvm ~]$ clear
[azureuser@centosvm ~]$ sudo yum update -y
Loaded plugins: langpacks
No packages marked for update
[azureuser@centosvm ~]$ git --version
git version 1.8.3.1
[azureuser@centosvm ~]$ git clone https://github.com/vishu16392/simpletest.git
Cloning into 'simpletest'...
warning: You appear to have cloned an empty repository.
[azureuser@centosvm ~]$ git init
Reinitialized existing Git repository in /home/azureuser/.git/
[azureuser@centosvm ~]$ git add README.md
```

Follow the
command from
image step by step
for make
directory,change
directory,cloning
and file creation

```
azureuser@centosvm:~/simpli X + v
[azureuser@centosvm ~]$ git add README.md
warning: You ran 'git add' with neither '-A (--all)' or '--ignore-removal',
whose behaviour will change in Git 2.0 with respect to paths you removed.
Paths like 'README.md' that are
removed from your working tree are ignored with this version of Git.

* 'git add --ignore-removal <pathspec>', which is the current default,
ignores paths you removed from your working tree.

* 'git add --all <pathspec>' will let you also record the removals.

Run 'git status' to check the paths you removed from your working tree.

[azureuser@centosvm ~]$ git status
# On branch main
# Your branch is ahead of 'origin/main' by 2 commits.
# (use "git push" to publish your local commits)
#
# Changes not staged for commit:
# (use "git add/rm <file>..." to update what will be committed)
# (use "git checkout -- <file>..." to discard changes in working directory)
#
#       modified:   .bash_history
#       modified:   .cache/abrt/lastnotification
#       deleted:    README.md
#
# Untracked files:
# (use "git add <file>..." to include in what will be committed)
#
#       .viminfo
no changes added to commit (use "git add" and/or "git commit -a")
[azureuser@centosvm ~]$ ls
git simpletest
[azureuser@centosvm ~]$ cd simpletest
[azureuser@centosvm simpletest]$ echo "# simpletest" >> README.md
```



Type here to search



Follow the
command from
image step by
step.

```
azureuser@centosvm: ~/simpletest
[azureuser@centosvm ~]$ ls
git simpletest
[azureuser@centosvm ~]$ cd simpletest
[azureuser@centosvm simpletest]$ echo "# simpletest" >> README.md
[azureuser@centosvm simpletest]$ git init
Reinitialized existing Git repository in /home/azureuser/simpletest/.git/
[azureuser@centosvm simpletest]$ git add README.md
[azureuser@centosvm simpletest]$ git commit -m "first commit"
[master (root-commit) ca697cd] first commit
  Committer: Cloud User <azureuser@centosvm.1sxd323fxxoerjwgbzedk2u51d.rx.internal.cloudapp.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 README.md
[azureuser@centosvm simpletest]$ git branch -M main
[azureuser@centosvm simpletest]$ git remote add origin https://github.com/vishu16392/simpletest.git
fatal: remote origin already exists.
[azureuser@centosvm simpletest]$ git push -u origin main
Username for 'https://github.com': vishu16392
Password for 'https://vishu16392@github.com':
Counting objects: 3, done.
Writing objects: 100% (3/3), 264 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/vishu16392/simpletest.git
 * [new branch]      main -> main
Branch main set up to track remote branch main from origin.
```

Follow the
command
from image
step by step.

```
azureuser@centosvm:~/simpl X + v
[azureuser@centosvm simpletest]$ git branch feature
[azureuser@centosvm simpletest]$ git branch
  feature
* main
[azureuser@centosvm simpletest]$ git checkout feature
Switched to branch 'feature'
[azureuser@centosvm simpletest]$ git branch
* feature
  main
[azureuser@centosvm simpletest]$ git checkout main
Switched to branch 'main'
[azureuser@centosvm simpletest]$ vi newfile.txt
[azureuser@centosvm simpletest]$ git status
# On branch main
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       newfile.txt
nothing added to commit but untracked files present (use "git add" to track)
[azureuser@centosvm simpletest]$ git add .
[azureuser@centosvm simpletest]$ git commit -m "first file created"
[main 8b083ec] first file created
Committer: Cloud User <azureuser@centosvm.1sxd323fxxoerjwgbzedk2u51d.rx.internal.cloudapp.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
```

Follow the
command
from image
step by step.

```
azureuser@centosvm:~/simple X + v
create mode 100644 newfile.txt
[azureuser@centosvm simpletest]$ git push origin main
Username for 'https://github.com': vishu16392
Password for 'https://vishu16392@github.com':
Counting objects: 4, done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 342 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/vishu16392/simpletest.git
   ca697cd..8b083ec  main -> main
[azureuser@centosvm simpletest]$ git branch
* main
[azureuser@centosvm simpletest]$ git checkout feature
Switched to branch 'feature'
[azureuser@centosvm simpletest]$ git brnach
git: 'brnach' is not a git command. See 'git --help'.

Did you mean this?
    branch
[azureuser@centosvm simpletest]$ git branch
* feature
  main
[azureuser@centosvm simpletest]$ ls
README.md
[azureuser@centosvm simpletest]$ vi newfile1.txt
[azureuser@centosvm simpletest]$ git status
# On branch feature
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       newfile1.txt
nothing added to commit but untracked files present (use "git add" to track)
[azureuser@centosvm simpletest]$ git add .
[azureuser@centosvm simpletest]$ git commit -m "again we have a new file but diffrent brnach"
```


Follow the
command
from image
step by step.

```
1 file changed, 1 insertion(+)
create mode 100644 newfile1.txt
[azureuser@centosvm simpletest]$ vi newfile2.txt
[azureuser@centosvm simpletest]$ vi newfile3.txt
[azureuser@centosvm simpletest]$ git status
# On branch feature
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       newfile2.txt
#       newfile3.txt
nothing added to commit but untracked files present (use "git add" to track)
[azureuser@centosvm simpletest]$ git add .
[azureuser@centosvm simpletest]$ git commit -m "new file changed and added"
[feature f43189e] new file changed and added
Committer: Cloud User <azureuser@centosvm.1sxd323fxxoerjwgbzedk2u51d.rx.internal.cloudapp.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

2 files changed, 2 insertions(+)
create mode 100644 newfile2.txt
create mode 100644 newfile3.txt
[azureuser@centosvm simpletest]$ git push origin feature
Username for 'https://github.com': vishu16392
Password for 'https://vishu16392@github.com':
Counting objects: 8, done.
Compressing objects: 100% (4/4), done.
```

Once the file creation from terminal is done goto github and check the repository that you created in branch how many files are there?? Then for pulli follow the next slide image for command

The screenshot shows a web browser window displaying the GitHub repository page for 'simpletest' by user 'vishu16392'. The repository is public and has 2 branches and 0 tags. A yellow banner at the top indicates 'feature had recent pushes 1 minute ago' with a 'Compare & pull request' button. Below this, a table lists the files in the repository:

File	Commit	Time
Cloud User first file created	8b083ec	9 minutes ago
README.md	first commit	15 minutes ago
newfile.txt	first file created	9 minutes ago

Below the table, the 'README.md' file is displayed with the text 'simpletest'. On the right side, the 'About' section shows 'simpletest' with 0 stars, 1 watching, and 0 forks. The 'Releases' section shows 'No releases published' with a link to 'Create a new release'. The 'Packages' section shows 'No packages published' with a link to 'Publish your first package'.

Follow the
command
from image
step by step.

```
azureuser@centosvm:~/simply X + v
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

2 files changed, 2 insertions(+)
create mode 100644 newfile2.txt
create mode 100644 newfile3.txt
[azureuser@centosvm simpletest]$ git push origin feature
Username for 'https://github.com': vishu16392
Password for 'https://vishu16392@github.com':
Counting objects: 8, done.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (7/7), 645 bytes | 0 bytes/s, done.
Total 7 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote:   https://github.com/vishu16392/simpletest/pull/new/feature
remote:
To https://github.com/vishu16392/simpletest.git
 * [new branch]      feature -> feature
[azureuser@centosvm simpletest]$ git branch
* feature
  main
[azureuser@centosvm simpletest]$ git checkout main
Switched to branch 'main'
[azureuser@centosvm simpletest]$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (2/2), done.
From https://github.com/vishu16392/simpletest
 8b083ec..e50e37d  main      -> origin/main
Updating 8b083ec..e50e37d
```

Once it is done
goto github
and click on
compare and
pull request

The screenshot shows a web browser with two tabs: 'vishu16392/simpletest: simpletest' and 'centosvm - Microsoft Azure'. The address bar shows 'github.com/vishu16392/simpletest'. The GitHub interface includes a search bar, navigation links (Pull requests, Issues, Marketplace, Explore), and repository controls (Pin, Unwatch, Fork, Star). The repository 'simpletest' is public and has 0 stars, 0 forks, and 1 watcher. It shows a commit history table with files 'README.md' and 'newfile.txt'. The README content is 'simpletest'.

feature had recent pushes 1 minute ago [Compare & pull request](#)

main 2 branches 0 tags [Go to file](#) [Add file](#) [Code](#)

Cloud User first file created		8b083ec 9 minutes ago 2 commits
README.md	first commit	15 minutes ago
newfile.txt	first file created	9 minutes ago

README.md

simpletest

About simpletest

- Readme
- 0 stars
- 1 watching
- 0 forks

Releases

No releases published [Create a new release](#)

Packages

No packages published [Publish your first package](#)

Type here to search

6:31 PM 29-Sep-22

After this
click on
merge pull
request

Feature new pull request by vishu: x centosvm - Microsoft Azure x +

github.com/vishu16392/simpletest/pull/1

Open vishu16392 wants to merge 2 commits into main from feature

Conversation 0 Commits 2 Checks 0 Files changed 3 +3 -0

vishu16392 commented now

pulling

Cloud User added 2 commits 6 minutes ago

- again we have a new file but diffrent brnach 5741c9b
- new file changed and added f43189e

Add more commits by pushing to the **feature** branch on vishu16392/simpletest.

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

✓ This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Write Preview H B I E < > @ ↺ ↻

Type here to search

6:33 PM 29-Sep-22 25°C



End of PPT

Thankyou