

Banking Project :

- 1-Instance to create resources and terraform installed .

The screenshot shows the AWS Management Console and a terminal session. The top half displays the 'Instance summary for i-0ec5a7c59bfcbd681 (terraform)' page. Key details include:

- Instance ID: i-0ec5a7c59bfcbd681 (terraform)
- Public IPv4 address: 18.207.174.151 | open address
- Private IPv4 address: 172.31.39.9
- Public IPv4 DNS: ec2-18-207-174-151.compute-1.amazonaws.com | open address
- Instance state: Running
- Private IP DNS name (IPv4 only): ip-172-31-39-9.ec2.internal
- Instance type: t2.micro
- VPC ID: vpc-048d2fa7a91112d16
- Subnet ID: subnet-03f0d42a9d2e5714a
- Instance ARN: arn:aws:ec2:us-east-1:047719661658:instance/i-0ec5a7c59bfcbd681

The bottom half shows a MobaXterm window titled 'ubuntu@ip-172-31-39-9: ~'. The terminal output is as follows:

```
ubuntu@ip-172-31-39-9: ~
http://ip-172-31-39-9: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiTerm Tunneling Packages Settings Help
Quick connect...
/home/ubuntu/
09/10/2024 14:48:03 ~ /home/mobaxterm/MyDocuments/swatl/key_pair > ssh -i "my_key_pair.pem" ubuntu@ec2-18-207-174-151.compute-1.amazonaws.com
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Wed Oct 9 09:18:09 UTC 2024
System load: 0.16      Processes: 112
Usage of /: 6.2% of 95.82GB  Users logged in: 0
Memory usage: 46%          IPv4 address for enX0: 172.31.39.9
Swap usage: 0%
* Ubuntu Pro delivers the most comprehensive open source security and
  compliance features.

https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Oct 9 09:16:42 2024 from 106.219.25.246
ubuntu@ip-172-31-39-9:~$
```

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```

ubuntu@ip-172-31-39-9: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
[home/ubuntu]
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Oct 9 09:16:42 2024 from 106.219.25.246
ubuntu@ip-172-31-39-9:~$ terraform --version
Usage: terraform [<global options>] [<subcommand>] [<args>]

The available commands for execution are listed below.
The primary workflow commands are given first, followed by
less common or more advanced commands.

Main commands:
  init      Prepare your working directory for other commands
  validate  Check whether the configuration is valid
  plan     Show changes required by the current configuration
  apply    Create or update infrastructure
  destroy   Destroy previously-created infrastructure

All other commands:
  console   Try Terraform expressions at an interactive command prompt
  fmt       Reformat your configuration in the standard style
  force-unlock Release a stuck lock on the current workspace
  get       Install or upgrade remote Terraform modules
  graph    Generate a Graphviz graph of the steps in an operation
  import   Associate existing infrastructure with a Terraform resource
  login    Obtain and save credentials for a remote host
  logout   Remove locally-stored credentials for a remote host
  metadata Metadata related commands
  output   Show output values from your root module
  providers Show the providers required for this configuration
  refresh  Update the state to match remote systems
  show    Show the current state or a saved plan
  static   Advanced state management
  taint   Mark a resource instance as not fully functional
  test    Execute integration tests for Terraform modules
  untaint Remove the 'tainted' state from a resource instance

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```



```

ubuntu@ip-172-31-39-9: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
[home/ubuntu]
Last login: Wed Oct 9 09:16:42 2024 from 106.219.25.246
ubuntu@ip-172-31-39-9:~$ terraform --version
Usage: terraform [<global options>] [<subcommand>] [<args>]

The available commands for execution are listed below.
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  import   Associate existing infrastructure with a Terraform resource
  login    Obtain and save credentials for a remote host
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  show    Show the current state or a saved plan
  static   Advanced state management
  taint   Mark a resource instance as not fully functional
  test    Execute integration tests for Terraform modules
  untaint Remove the 'tainted' state from a resource instance
  workspace Workspace management

Global options (use these before the subcommand, if any):
  -chdir=DIR  Switch to a different working directory before executing the
             given subcommand.
  -help       Show this help output, or the help for a specified subcommand.
  -version    An alias for the "version" subcommand.

ubuntu@ip-172-31-39-9:~$ 

```

- 2-To create resources with **pre-installed tool like git , apache maven , Docker and docker hub integration , JDK , Jenkins, Ansible and prometheus** .I have create a instance with executable user_date within the Terraform code.

ubuntu@ip-172-31-39-9: ~

```

GNU nano 7.2
provider "aws" {
  region = "us-east-1" # Change this to your desired region
}

# External data source to run the build.sh script
data "template_file" "web-userdata" {
  template=file("build.sh")
}

# Security group allowing all inbound and outbound traffic
resource "aws_security_group" "allow_all" {
  name        = "allow_all_traffic"
  description = "Allow all inbound and outbound traffic"

  ingress {
    from_port   = 0
    to_port     = 0
    protocol   = "-1" # Allows all protocols
    cidr_blocks = ["0.0.0.0/0"] # Allows from all IPs
  }

  egress {
    from_port   = 0
    to_port     = 0
    protocol   = "-1" # Allows all protocols
    cidr_blocks = ["0.0.0.0/0"] # Allows to all IPs
  }

  tags = {
    Name = "AllowAllTraffic"
  }
}

# EC2 instance configuration
resource "aws_instance" "my_ec2_instance" {
  ami           = "ami-0866a3c8686eaeeba"
  instance_type = "t3.micro"

  # Specify the VPC subnet and key pair
  subnet_id    = "subnet-03fd4d2a9d2e5714a" # Your specified subnet ID
  key_name      = "my_key_pair"               # Name of the key pair (without .pem)

  # Security group attached to the instance allowing all traffic
  vpc_security_group_ids = [aws_security_group.allow_all.id]

  # Use output from external data source for user data
  user_data = data.template_file.web-userdata.rendered

  # Optional: Add any desired tags
  tags = {
    Name = "MyEC2Instance"
  }

  # Block for EBS volume
  root_block_device {
    volume_size = 300 # Size in GB
    volume_type = "gp2" # General Purpose SSD
  }
}

```

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```
ubuntu@ip-172-31-39-9:~$ build.sh
GNU nano 7.2
#!/bin/bash

# Your build commands here
echo "Running build commands..."

# Update and upgrade the package lists
sudo apt-get update && sudo apt-get upgrade -y

# Add Jenkins repository for Debian
sudo wget -O /usr/share/keys/jenkins-keyring.asc \
  https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo "deb [signed-by=/usr/share/keys/jenkins-keyring.asc] \
  https://pkg.jenkins.io/debian-stable binary/" | sudo tee \
  /etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install -y jenkins

# Sleep for 20 seconds after Jenkins installation
sleep 20

# Install required packages for Jenkins
sudo apt update
sudo apt install -y fontconfig openjdk-17-jre
sleep 10 # Sleep for 10 seconds after JDK installation

# Download and install OpenJDK 13
wget https://download.java.net/java/GA/jdk13.0.1/cec27d702aa74d5a8630c65ae61e4305/9/GPL/openjdk-13.0.1_linux-x64_bin.tar.gz
tar -xvf openjdk-13.0.1_linux-x64_bin.tar.gz
sudo mv jdk-13.0.1 /opt/
JAVA_HOME=/opt/jdk-13.0.1
PATH=$JAVA_HOME/bin:$PATH
export PATH
java --version

# Sleep for 20 seconds after OpenJDK installation
sleep 20
```

```
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
ubuntu@ip-172-31-39-9:~$ build.sh
GNU nano 7.2
#!/bin/bash

# Download and install OpenJDK 13
wget https://download.java.net/java/GA/jdk13.0.1/cec27d702aa74d5a8630c65ae61e4305/9/GPL/openjdk-13.0.1_linux-x64_bin.tar.gz
tar -xvf openjdk-13.0.1_linux-x64_bin.tar.gz
sudo mv jdk-13.0.1 /opt/
JAVA_HOME=/opt/jdk-13.0.1
PATH=$JAVA_HOME/bin:$PATH
export PATH
java --version

# Sleep for 20 seconds after OpenJDK installation
sleep 20

# Add Jenkins repository for Red Hat/CentOS (if needed)
sudo wget -O /etc/yum.repos.d/jenkins.repo \
  https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
sudo dnf upgrade -y
sudo dnf install -y fontconfig java-17-openjdk
sleep 10 # Sleep for 10 seconds before installing Jenkins
sudo dnf install -y jenkins

# Sleep for 20 seconds after Jenkins installation
sleep 20

# Download and install Apache Maven
wget https://archive.apache.org/dist/maven/maven-3/3.6.3/binaries/apache-maven-3.6.3-bin.tar.gz
tar -xvf apache-maven-3.6.3-bin.tar.gz
sudo mv apache-maven-3.6.3 /opt/
M2_HOME=/opt/apache-maven-3.6.3
PATH=$M2_HOME/bin:$PATH
export PATH
mvn --version

# Sleep for 20 seconds after Maven installation
sleep 20

# Enable and start Jenkins service
sudo systemctl enable jenkins
```

```

ubuntu@ip-172-31-39-9: ~
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiEdit Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
User sessions WSL-Ubuntu
GNU nano 7.2 build.sh
# Download and install Apache Maven
wget https://archive.apache.org/dist/maven/maven-3/3.6.3/binaries/apache-maven-3.6.3-bin.tar.gz
tar -xvf apache-maven-3.6.3-bin.tar.gz
sudo mv apache-maven-3.6.3 /opt/
M2_HOME=/opt/apache-maven-3.6.3'
PATH="$M2_HOME/bin:$PATH"
export PATH
mvn -version

# Sleep for 20 seconds after Maven installation
sleep 20

# Enable and start Jenkins service
sudo systemctl enable jenkins
sudo systemctl start jenkins
sudo systemctl start jenkins
sudo systemctl status jenkins

# Sleep for 30 seconds after Jenkins setup for stability
sleep 30

# Remove any pre-installed Docker packages
for pkg in docker.io docker-doc docker-compose-v2 podman-docker containerd runc; do
    sudo apt-get remove -y $pkg
done

# Sleep for 20 seconds after removing Docker packages
sleep 20

# Add Docker's official GPG key and setup the repository
sudo apt-get update
sudo apt-get install -y ca-certificates curl
sudo install -m 0755 -d /etc/apt/keyrings
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add Docker repository to apt sources
echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
$ . /etc/os-release && echo \"$VERSION_CODENAME\" stable" | \
sudo tee /etc/apt/sources.list.d/docker.list >/dev/null

sudo apt-get update

# Sleep for 20 seconds after setting up Docker repository
sleep 20

# Install Docker and its dependencies
sudo apt-get install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

# Sleep for 20 seconds after Docker installation
sleep 20

# Test Docker installation
sudo docker run hello-world

# Sleep for 20 seconds after Docker test
sleep 20

# Docker login
#!/bin/bash

# Docker login
echo "Logging into Docker Hub..."
echo "dckr_pt_N978cgk2aB05PdrR0nxBgUkI4" | docker login -u swatigadagi --password-stdin

# Continue with the rest of your script
[[

Help Write Out Where Is Cut Execute Location Undo Set Mark To Bracket
Exit Read File Replace Paste Justify Go To Line Redo Copy Where Was

```

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```

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User sessions WSL-Ubuntu
GNU nano 7.2 build.sh
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wget https://archive.apache.org/dist/maven/maven-3/3.6.3/binaries/apache-maven-3.6.3-bin.tar.gz
tar -xvf apache-maven-3.6.3-bin.tar.gz
sudo mv apache-maven-3.6.3 /opt/
M2_HOME=/opt/apache-maven-3.6.3'
PATH="$M2_HOME/bin:$PATH"
export PATH
mvn -version

# Sleep for 20 seconds after Maven installation
sleep 20

# Enable and start Jenkins service
sudo systemctl enable jenkins
sudo systemctl start jenkins
sudo systemctl start jenkins
sudo systemctl status jenkins

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sudo chmod a+r /etc/apt/keyrings/docker.asc

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"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
$ . /etc/os-release && echo \"$VERSION_CODENAME\" stable" | \
sudo tee /etc/apt/sources.list.d/docker.list >/dev/null

sudo apt-get update

# Sleep for 20 seconds after setting up Docker repository
sleep 20

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sudo apt-get install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

# Sleep for 20 seconds after Docker installation
sleep 20

# Test Docker installation
sudo docker run hello-world

# Sleep for 20 seconds after Docker test
sleep 20

# Docker login
#!/bin/bash

# Docker login
echo "Logging into Docker Hub..."
echo "dckr_pt_N978cgk2aB05PdrR0nxBgUkI4" | docker login -u swatigadagi --password-stdin

# Continue with the rest of your script
[[

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ubuntu@ip-172-31-39-9: ~

```

Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
User sessions WSL-Ubuntu
GNU nano 7.2 build.sh *
# Sleep for 20 seconds after Docker login
sleep 20

# Add Ansible repository and install Ansible
sudo apt-add-repository ppa:ansible/ansible
sleep 20 # Sleep for 20 seconds after adding repository

sudo apt update -y
sleep 20 # Sleep for 20 seconds after updating package lists

sudo apt install ansible -y
sleep 20 # Sleep for 20 seconds after Ansible installation

# Echo message indicating completion of all installations
echo "Jenkins, Docker, and Ansible Installation has been completed!"

# At the end of the script, output JSON
echo '{"status": "success", "message": "Script executed successfully"}'
#!/bin/bash

# Step 1 - Update System Packages
echo "Updating system packages..."
sudo apt update

# Step 2 - Create a System User for Prometheus
echo "Creating a system user and group for Prometheus..."
sudo groupadd --system prometheus
sudo useradd -s /sbin/nologin --system -g prometheus prometheus

# Step 3 - Creating Directories for Prometheus
echo "Creating directories for Prometheus..."
sudo mkdir /etc/prometheus
sudo mkdir /var/lib/prometheus

# Step 4 - Download Prometheus and Extract Files
echo "Downloading Prometheus..."
wget https://github.com/prometheus/prometheus/releases/download/v2.43.0/prometheus-2.43.0.linux-amd64.tar.gz

```

Help Write Out Where Is Cut Execute Location Undo Set Mark To Bracket

Exit Read File Replace Paste Justify Go To Line Redo Copy Where Was

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ubuntu@ip-172-31-39-9: ~

```

Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
User sessions WSL-Ubuntu
GNU nano 7.2 build.sh *
# Step 6 - Move the Binary Files & Set Owner
echo "Moving binary files and setting ownership..."
sudo mv prometheus /usr/local/bin
sudo mv promtool /usr/local/bin
sudo chown prometheus:prometheus /usr/local/bin/prometheus
sudo chown prometheus:prometheus /usr/local/bin/promtool

# Step 7 - Move the Configuration Files & Set Owner
echo "Moving configuration files and setting ownership..."
sudo mv config/prometheus.yml /etc/prometheus
sudo mv config/console_libraries /etc/prometheus
sudo mv config/prometheus.yml /etc/prometheus
sudo chown prometheus:prometheus /etc/prometheus
sudo chown -R prometheus:prometheus /etc/prometheus/consoles
sudo chown -R prometheus:prometheus /etc/prometheus/console_libraries
sudo chown -R prometheus:prometheus /var/lib/prometheus

# Step 8 - Create Prometheus Systemd Service
echo "Creating Prometheus systemd service..."
sudo bash -c 'cat << EOF >> /etc/systemd/system/prometheus.service
[Unit]
Description=Prometheus
Wants=network-online.target
After=network-online.target
[Service]
User=prometheus
Group=(prometheus)
Type=simple
ExecStart=/usr/local/bin/prometheus \
--config.file /etc/prometheus/prometheus.yml \
--storage.tsdb.path /var/lib/prometheus/ \
--web.console.templates=/etc/prometheus/consoles \
--web.console.libraries=/etc/prometheus/console_libraries
[Install]
WantedBy=multi-user.target
EOF'

```

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```

ubuntu@ip-172-31-39-9:~$ 
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
User sessions WSL-Ubuntu
[1] 2. ubuntu@ip-172-31-39-9 ~
GNU nano 7.2
sudo chmod -R prometheus /etc/prometheus/console_libraries
sudo chmod -R prometheus /var/lib/prometheus

# Step 8 - Create Prometheus Systemd Service
echo "Creating Prometheus systemd service..."
sudo bash <- 'cat << EOF > /etc/systemd/system/prometheus.service
[Unit]
Description=Prometheus
Wants=network-online.target
After=network-online.target

[Service]
User=prometheus
Group=prometheus
Type=simple
ExecStart=/usr/local/bin/prometheus \
--config.file /etc/prometheus/prometheus.yml \
--storage.tsdb.path /var/lib/prometheus/ \
--web.console.templates=/etc/prometheus/consoles \
--web.console.libraries=/etc/prometheus/console_libraries

[Install]
WantedBy=multi-user.target
EOF'

# Step 9 - Reload Systemd
echo "Reloading systemd..."
sudo systemctl daemon-reload

# Step 10 - Start Prometheus Service
echo "Enabling and starting Prometheus service..."
sudo systemctl enable prometheus
sudo systemctl start prometheus

# Step 11 - Check Prometheus Status
echo "Checking Prometheus service status..."
sudo systemctl status prometheus
[1]+ 0 done                    nano build.sh

ubuntu@ip-172-31-39-9:~$ nano main.tf
ubuntu@ip-172-31-39-9:~$ nano build.sh
ubuntu@ip-172-31-39-9:~$ 

Help Write Out Read File Where Is Replace Cut Paste Execute Justify Location Undo Set Mark To Bracket Exit Undo Redo Copy Where Was

```

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```

ubuntu@ip-172-31-39-9:~$ 
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
User sessions WSL-Ubuntu
[1] 2. ubuntu@ip-172-31-39-9 ~
ubuntu@ip-172-31-39-9:~$ nano main.tf
ubuntu@ip-172-31-39-9:~$ nano build.sh
ubuntu@ip-172-31-39-9:~$ 

Help Write Out Read File Where Is Replace Cut Paste Execute Justify Location Undo Set Mark To Bracket Exit Undo Redo Copy Where Was

```

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- 3-I have used “`tree -a`” to know tree of my terraform Configuration.

The screenshot shows two MobaXterm windows side-by-side. Both windows have a dark theme and are connected to the same SSH session at `ubuntu@ip-172-31-39-9:~`.

The top window displays the output of the Terraform initialization command:

```
ubuntu@ip-172-31-39-9:~$ nano main.tf
ubuntu@ip-172-31-39-9:~$ nano build.sh
ubuntu@ip-172-31-39-9:~$ terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/template from the dependency lock file
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/template v2.2.0
- Using previously-installed hashicorp/aws v5.70.0

Terraform has been successfully initialized!
```

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

```
ubuntu@ip-172-31-39-9:~$ tree -a
.
├── .Xauthority
├── .aws
│   └── config
│       └── credentials
├── .bash_history
├── .bash_logout
├── .bashrc
├── .cache
│   └── motd.legal-displayed
├── .docker
│   └── config.json
├── .gnupg
│   └── trustdb.gpg
└── .local
    └── share
        └── nano
.
├── .profile
└── .ssh
    └── authorized_keys
        └── known_hosts
.
└── .sudo_as_admin_successful
```

The bottom window shows the detailed directory structure of the `.terraform` provider cache:

```
.
├── .Xauthority
├── .aws
│   └── config
│       └── credentials
├── .bash_history
├── .bash_logout
├── .bashrc
├── .cache
│   └── motd.legal-displayed
├── .docker
│   └── config.json
├── .gnupg
│   └── trustdb.gpg
└── .local
    └── share
        └── nano
.
├── .profile
└── .ssh
    └── authorized_keys
        └── known_hosts
.
└── .sudo_as_admin_successful
```

```
.
└── .terraform
    └── providers
        └── registry.terraform.io
            └── hashicorp
                └── aws
                    └── 5.70.0
                        └── linux_amd64
                            └── LICENSE.txt
                            └── terraform-provider-aws_v5.70.0_x5
                └── external
                    └── 2.3.4
                        └── linux_amd64
                            └── LICENSE.txt
                            └── terraform-provider-external_v2.3.4_x5
                └── template
                    └── 2.2.0
                        └── linux_amd64
                            └── terraform-provider-template_v2.2.0_x4
.
└── .terraform.d
    └── checkpoint_cache
        └── checkpoint_signature
```

The screenshot shows two terminal windows in MobaXterm. Both windows are connected to the same session: `ubuntu@ip-172-31-39-9:~`. The top window displays the directory structure of the AWS SDK for Python (Boto3) version 1.19.123, which is located at `/usr/local/lib/python3.6/dist-packages/botocore`. The structure includes sub-directories like `awscli`, `botocore`, `cacert.pem`, `data`, `accessanalyzer`, `account`, `acm`, and `acm-pca`, along with various JSON configuration files. The bottom window shows a similar directory structure for the AWS SDK for Python (Boto3) version 1.19.123, specifically for the `redshift-data` service, located at `/usr/local/lib/python3.6/dist-packages/botocore/services/redshift-data`. It includes sub-directories for `2019-12-20`, `2021-04-29`, and `2022-05-13`, containing endpoint rule sets, paginators, and service definitions.

```
ubuntu@ip-172-31-39-9:~ Terminal Sessions View Xserver Tools Games Settings Macros Help Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help Quick connect... 12. ubuntu@ip-172-31-39-9 ~ .terraform.d checkpoint cache checkpoint signature .terraform.lock.hcl .wget-hsts aws README.md THIRD_PARTY_LICENSES dist _awscrt.abi3.so _cffi_backend.cpython-312-x86_64-linux-gnu.so _ruamel_yaml.cpython-312-x86_64-linux-gnu.so _urllib3_abi3.so aws_completer awscli botocore .changes next-release api-change-connect-59117.json cacert.pem data accessanalyzer 2019-11-01 endpoint-rule-set-1.json paginators-1.json paginators-1.sdk-extras.json service-2.json account 2021-02-01 endpoint-rule-set-1.json paginators-1.json service-2.json acm 2015-12-08 completions-1.json endpoint-rule-set-1.json paginators-1.json service-2.json walters-2.json acm-pca 2017-08-22 completions-1.json UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
```

```
ubuntu@ip-172-31-39-9:~ Terminal Sessions View Xserver Tools Games Settings Macros Help Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help Quick connect... 12. ubuntu@ip-172-31-39-9 ~ .service-2.json walters-2.json redshift-data 2019-12-20 endpoint-rule-set-1.json paginators-1.json paginators-1.sdk-extras.json service-2.json redshift-serverless 2021-04-29 endpoint-rule-set-1.json paginators-1.json service-2.json rekognition 2016-06-27 completions-1.json endpoint-rule-set-1.json paginators-1.json service-2.json walters-2.json repospace 2022-05-13 endpoint-rule-set-1.json paginators-1.json service-2.json resiliencehub 2020-04-30 endpoint-rule-set-1.json paginators-1.json service-2.json resource-explorer-2 2022-07-28 endpoint-rule-set-1.json paginators-1.json paginators-1.sdk-extras.json service-2.json resources 2017-11-27 completions-1.json endpoint-rule-set-1.json paginators-1.json paginators-1.sdk-extras.json UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
```

The screenshot displays two terminal sessions in the MobaXterm application.

Top Terminal Session:

```
ubuntu@ip-172-31-39-9: ~
```

Directory structure:

```
2. ubuntu@ip-172-31-39-9: ~
.
├── configure
│   └── main.yml
├── dynamodb
│   └── new-table.yml
├── events
│   └── new-rule.yml
└── lambda
    └── new-role.yml
        └── Lambda
            └── new-function.yml

data
├── ac_index
├── cli.json
└── metadata.json

examples
└── accessanalyzer
    ├── apply-archive-rule.rst
    ├── cancel-policy-generation.rst
    ├── check-access-not-granted.rst
    ├── check-no-new-access.rst
    ├── check-no-public-access.rst
    ├── create-access-preview.rst
    ├── create-analyzer.rst
    ├── create-archive.rst
    ├── delete-archive.rst
    ├── delete-archive-rule.rst
    ├── get-access-preview.rst
    ├── get-analyzed-resource.rst
    ├── get-analyzer.rst
    ├── get-archive-rule.rst
    ├── get-finding-v2.rst
    ├── get-finding.rst
    ├── get-generated-policy.rst
    ├── list-access-preview-findings.rst
    ├── list-access-previews.rst
    ├── list-analyzed-resources.rst
    ├── list-analyzers.rst
    ├── list-archive-rules.rst
    ├── list-findings.rst
    ├── list-findings-v2.rst
    ├── list-policy-generations.rst
    └── list-tags-for-resource.rst
```

Bottom Terminal Session:

```
ubuntu@ip-172-31-39-9: ~
```

Directory structure:

```
2. ubuntu@ip-172-31-39-9: ~
.
├── acm-pki
│   ├── list-tags-for-certificate.rst
│   ├── remove-tags-from-certificate.rst
│   ├── request-certificate.rst
│   ├── resend-validation-email.rst
│   └── update-certificate-options.rst
└── apigateway
    ├── create-api-key.rst
    ├── create-authorizer.rst
    ├── create-base-path-mapping.rst
    ├── create-deployment.rst
    ├── create-domain-name.rst
    ├── create-endpoint.rst
    ├── create-resource.rst
    ├── create-rest-api.rst
    ├── create-stage.rst
    ├── create-usage-plan-key.rst
    ├── create-usage-plan.rst
    ├── delete-api-key.rst
    ├── delete-authorizer.rst
    ├── delete-base-path-mapping.rst
    ├── delete-client-certificate.rst
    ├── delete-deployment.rst
    ├── delete-domain-name.rst
    ├── delete-integration-response.rst
    └── delete-integration.rst
```

```

ubuntu@ip-172-31-39-9: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
User sessions
WSL-Ubuntu

2 ubuntu@ip-172-31-39-9: ~
jdk.scripting.nashorn.jmod
jdk.scripting.nashorn.shell.jmod
jdk.sctp.jmod
jdk.security.auth.jmod
jdk.security.jgss.jmod
jdk.unsupported.desktop.jmod
jdk.unsupported.jmod
jdk.xml.dom.jmod
jdk.zipfs.jmod

legal
java.base
-- ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION
-- LICENSE
-- aes.md
-- asm.md
-- c-libutil.md
-- cldr.md
-- icu.md
-- publicsuffix.md
-- unicode.md
java.compiler
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
java.datatransfer
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
java.desktop
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
-- colorimaging.md
-- giflib.md
-- harfbuzz.md
-- jpeg.md
-- lcms.md
-- libpng.md
-- mesa3d.md
-- opengl.md
-- xwd.md

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ubuntu@ip-172-31-39-9: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
User sessions
WSL-Ubuntu

2 ubuntu@ip-172-31-39-9: ~
bcel.md
dom.md
jcup.md
xalan.md
xerces.md
java.xml.crypto
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
-- santuario.md
jdk.accessibility
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
jdk.aot
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
jdk.attach
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
jdk charset
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
jdk.compiler
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
jdk.crypto.cryptoki
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
-- pkcs11cryptotoken.md
-- pkcs11wrapper.md
jdk.crypto.ec
-- ADDITIONAL_LICENSE_INFO -> ../java.base/ADDITIONAL_LICENSE_INFO
-- ASSEMBLY_EXCEPTION -> ../java.base/ASSEMBLY_EXCEPTION
-- LICENSE -> ../java.base/LICENSE
-- ecc.md
jdk.dynalink

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```

The screenshot shows a MobaXterm interface. On the left is a file tree for a directory named 'ubuntu@ip-172-31-39-9:~'. The tree includes sub-directories like 'lib', 'main', 'openjdk-13.0.1', 'src', and 'release', along with files such as 'classes.jsa', 'libjsig.so', 'libjvm.so', 'src.zip', and 'tzdb.dat'. At the bottom of the tree, there are three 'open' links to 'openjdk-13.0.1_linux-x64_bin.tar.gz' files. The terminal window on the right displays the command 'ls' followed by the output: '1133 directories, 7771 files'. The prompt 'ubuntu@ip-172-31-39-9:~\$' is visible at the bottom of the terminal.

```
ls
1133 directories, 7771 files
ubuntu@ip-172-31-39-9:~$
```

- 4-Used Terraform validate and plan to check any errors.

```

ubuntu@ip-172-31-39-9:~$ terraform plan
data.template_file.web-userdata: Reading...
data.template_file.web-userdata: Read complete after 0s [id=0a8dbe40833aeff98fcbb110f3fcbb9ecd05e4e279cb15893f2fb211daff74a]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# aws_instance.my_ec2_instance will be created
+ resource "aws_instance" "my_ec2_instance"
  + ami                               = "ami-0866a3c8686eaeeba"
  + ami_id                            = "(known after apply)"
  + associate_public_ip_address      = "(known after apply)"
  + availability_zone                = "(known after apply)"
  + cpu_core_count                   = "(known after apply)"
  + cpu_threads_per_core            = "(known after apply)"
  + disable_api_stop                = "(known after apply)"
  + disable_api_termination         = "(known after apply)"
  + ebs_optimized                    = "(known after apply)"
  + get_password_data               = "(known after apply)"
  + host_id                          = "(known after apply)"
  + host_resource_group_arn          = "(known after apply)"
  + iam_instance_profile             = "(known after apply)"
  + id                               = "(known after apply)"
  + instance_initiated_shutdown_behavior = "(known after apply)"
  + instance_lifecycle              = "(known after apply)"
  + instance_state                  = "(known after apply)"
  + instance_type                   = "+t3.micro"
  + ipv6_address_count              = "(known after apply)"
  + ipv6_addresses                  = "(known after apply)"
  + key_name                         = "my_key_pair"
  + monitoring                       = "(known after apply)"
  + outpost_arn                      = "(known after apply)"
  + password_data                   = "(known after apply)"
  + placement_group                 = "(known after apply)"
  + placement_partition_number       = "(known after apply)"
  + primary_network_interface_id    = "(known after apply)"
  + private_ip                       = "(known after apply)"
  + public_dns                        = "(known after apply)"
  + public_ip                         = "(known after apply)"

UNREGISTERED VERSION - Please support MobaTerm by subscribing to the professional edition here: https://mobaterm.mobatek.net
ubuntu@ip-172-31-39-9:~$ terraform validate
+ to_port                           = 8
  # (1 unchanged attribute hidden)
},
]
+ id                                = (known after apply)
+ ingress                           =
  +
    + {
      + cidr_blocks           = [
        + "0.0.0.0/0",
      ]
      + from_port              = 0
      + ipv6_cidr_blocks       = []
      + prefix_list_ids        = []
      + protocol               = "1"
      + security_groups         = []
      + self                   = false
      + to_port                = 0
      # (1 unchanged attribute hidden)
    },
]
+ name                               = "allow_all_traffic"
+ name_prefix                         = (known after apply)
+ owner_id                            = (known after apply)
+ revoke_rules_on_delete             = false
+ tags                               =
  +
    + "Name" = "AllowAllTraffic"
  }
+ tags.all                            =
  +
    + "Name" = "AllowAllTraffic"
  }
+ vpc_id                             = (known after apply)

Plan: 2 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.
ubuntu@ip-172-31-39-9:~$ terraform validate
Success! The configuration is valid.

ubuntu@ip-172-31-39-9:~$ 

```

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5- Resources created.

```

ubuntu@ip-172-31-39-9:~ Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect... Reconnect SSH-browser
Star User sessions WSL-Ubuntu
X server Exit

[2 ubuntu@ip-172-31-39-9 ~] + to_port = 0
# (1 unchanged attribute hidden)
],
+ id = (known after apply)
+ ingress = [
+ {
+ cidr_blocks = [
+ "0.0.0.0/0",
]
+ from_port = 0
+ ipv6_cidr_blocks = []
+ prefix_list_ids = []
+ protocol = "tcp"
+ security_groups = []
+ self = false
+ to_port = 0
# (1 unchanged attribute hidden)
},
]
+ name = "allow_all_traffic"
+ name_prefix = (known after apply)
+ owner_id = (known after apply)
+ revoke_rules_on_delete = false
+ tags = {
+ "Name" = "AllowAllTraffic"
}
+ tags.all = {
+ "Name" = "AllowAllTraffic"
}
+ vpc_id = (known after apply)

Plan: 2 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.
ubuntu@ip-172-31-39-9:~$ terraform validate
Success! The configuration is valid.

ubuntu@ip-172-31-39-9:~$ UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect... Reconnect SSH-browser
Star User sessions WSL-Ubuntu
X server Exit

[2 ubuntu@ip-172-31-39-9 ~] ubuntu@ip-172-31-39-9:~$ terraform apply
Success! The configuration is valid.

ubuntu@ip-172-31-39-9:~$ terraform validate
data.template_file.web-userdata: Reading...
data.template_file.web-userdata: Read complete after 0s [id=0a0dbe40833ae9f9fcbe1118f3fbcb9ecd05e4e279cb15893f2fb21daff74a]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# aws_instance.my_ec2_instance will be created
+ resource "aws_instance" "my_ec2_instance" {
+ ami = "ami-0866a3c8686eaeeba"
+ arn = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = (known after apply)
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance.lifecycle = (known after apply)
+ instance.state = (known after apply)
+ instance_type = "t3.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
+ key_name = "my_key_pair"
+ monitoring = (known after apply)
+ outpost_arn = (known after apply)
+ private_data = (known after apply)
+ placement_group = (known after apply)
+ placement_partition_number = (known after apply)
+ primary_network_interface_id = (known after apply)
+ private_dns = (known after apply)

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```

```

ubuntu@ip-172-31-39-9: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
User sessions
WSL-Ubuntu
Session 2. ubuntu@ip-172-31-39-9 ~
+ cidr_blocks = [
+ "0.0.0.0/0",
]
+ from_port = 0
+ ipv6_cidr_blocks = []
+ prefix_list_ids = []
+ protocol = ".1"
+ security_groups = []
+ self = false
+ to_port = 0
# (1 unchanged attribute hidden)
},
],
+ name = "allow_all_traffic"
+ name_prefix = (known after apply)
+ owner_id = (known after apply)
+ revoke_rules_on_delete = false
+ tags = {
+ "Name" = "AllowAllTraffic"
}
+ tags_all = {
+ "Name" = "AllowAllTraffic"
}
+ vpc_id = (known after apply)
}

Plan: 2 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

aws_security_group.allow_all: Creating...
aws_security_group.allow_all: Creation complete after 3s [id=sg-016319c042bbb49b1]
aws_instance.my_ec2_instance: Creating...
aws_instance.my_ec2_instance: Still creating... [10s elapsed]
aws_instance.my_ec2_instance: Creation complete after 12s [id=i-02eba2de1b4b99cdd]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
ubuntu@ip-172-31-39-9:~$ 

```

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AWS Services Search [Alt+S] N. Virginia Sumati A Gadagi

EC2 Dashboard EC2 Global View Events Console-to-Code [Preview](#)

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes
- Snapshots

CloudShell Feedback

EC2 > Instances > i-0484d0910abe5ff4a (MyEC2Instance) [Info](#)

Instance summary for i-0484d0910abe5ff4a (MyEC2Instance) [Info](#)

Updated less than a minute ago

Instance ID	i-0484d0910abe5ff4a (MyEC2Instance)	Public IPv4 address	Private IPv4 addresses
IPv6 address	-	Instance state	Public IPv4 DNS
Hostname type	Private IP DNS name (IPv4 only)	Running	ec2-34-238-165-5.compute-1.amazonaws.com open address
IP name: ip-172-31-38-66.ec2.internal	ip-172-31-38-66.ec2.internal	Instance type	Elastic IP addresses
Answer private resource DNS name	-	t3.micro	-
Auto-assigned IP address	34.238.165.5 [Public IP]	VPC ID	AWS Compute Optimizer finding
IAM Role	-	Subnet ID	Opt-in to AWS Compute Optimizer for recommendations Learn more
IMDsv2	Required	Instance ARN	Auto Scaling Group name
		arn:aws:ec2:us-east-1:047719661658:instance/i-0484d0910abe5ff4a	-

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aws Services Search [Alt+S]

EC2 > Instances > i-0484d0910abe5ff4a > Connect to instance

Connect to instance Info

Connect to your instance i-0484d0910abe5ff4a (MyEC2Instance) using any of these options

EC2 Instance Connect **Session Manager** **SSH client** **EC2 serial console**

Instance ID
i-0484d0910abe5ff4a (MyEC2Instance)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is `my_key_pair.pem`
3. Run this command, if necessary, to ensure your key is not publicly viewable.
`chmod 400 "my_key_pair.pem"`
4. Connect to your instance using its Public DNS:
`ec2-34-238-165-5.compute-1.amazonaws.com`

Command copied
`ssh -i "my_key_pair.pem" ubuntu@ec2-34-238-165-5.compute-1.amazonaws.com`

Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

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ubuntu@ip-172-31-38-66 ~

Terminal Sessions View X server Tools Games Settings Macos Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect... 12 ubuntu@ip-172-31-39-9 ~ 15 ubuntu@ip-172-31-38-66 ~

For more information: <https://mobaxterm.mobatek.net/download.html>

09/10/2024 15:56:22 /home/mobaxterm cd MyDocuments/swati/key\ pair/

Warning: Permanently added 'ec2-34-238-165-5.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

- * Documentation: <https://help.ubuntu.com>
- * Management: <https://landscape.canonical.com>
- * Support: <https://ubuntu.com/pro>

System information as of Wed Oct 9 10:26:51 UTC 2024

System load: 1.19	Temperature: -273.1
Usage of /: 0.7% of 289.56GB	Processes: 136
Memory usage: 36%	Users logged in: 0
Swap usage: 0%	IPv4 address for ens5: 172.31.38.66

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

/usr/bin/xauth: file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

ubuntu@ip-172-31-38-66:\$

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ubuntu@ip-172-31-38-66 ~

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiTerm Tunneling Packages Settings Help

Quick connect...

12 ubuntu@ip-172-31-39-9 ~ 15 ubuntu@ip-172-31-38-66 ~

```
09/10/2024 16:09:57 $ ssh -i "my_key_pair.pem" ubuntu@ec2-34-238-165-5.compute-1.amazonaws.com
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Wed Oct 9 10:39:24 UTC 2024

System load: 0.51 Temperature: 273.1 C
Usage of /: 1.6% of 289.56GB Processes: 118
Memory usage: 57% Users logged in: 0
Swap usage: 0% IPv4 address for ens5: 172.31.38.66

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Oct 9 10:39:26 2024 from 106.219.25.246
ubuntu@ip-172-31-38-66:~$ git --version
git version 2.43.0
ubuntu@ip-172-31-38-66:~$ java --version
openjdk 17.0.12 2024-07-16
OpenJDK Runtime Environment (build 17.0.12+12+Ubuntu-1ubuntu224.04)
OpenJDK 64-Bit Server VM (build 17.0.12+12+Ubuntu-1ubuntu224.04, mixed mode, sharing)
ubuntu@ip-172-31-38-66:~$ mvn --version
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: /opt/apache-maven-3.6.3
Java version: 17.0.12, vendor: Ubuntu, runtime: /usr/lib/jvm/java-17-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-1016-aws", arch: "amd64", family: "unix"
ubuntu@ip-172-31-38-66:~$ docker --version
Docker version 27.3.1, build ce12230
ubuntu@ip-172-31-38-66:~$ ansible --version
ansible [core 2.17.5]
  config file = /etc/ansible/ansible.cfg

UNREGISTERED VERSION - Please support Mobaxterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
```

ubuntu@ip-172-31-38-66 ~

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiTerm Tunneling Packages Settings Help

Quick connect...

12 ubuntu@ip-172-31-39-9 ~ 15 ubuntu@ip-172-31-38-66 ~

```
Maven home: /opt/apache-maven-3.6.3
Java version: 17.0.12, vendor: Ubuntu, runtime: /usr/lib/jvm/java-17-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-1016-aws", arch: "amd64", family: "unix"
ubuntu@ip-172-31-38-66:~$ docker --version
Docker version 27.3.1, build ce12230
ubuntu@ip-172-31-38-66:~$ ansible --version
ansible [core 2.17.5]
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.12.3 (main, Sep 11 2024, 14:17:37) [GCC 13.2.0] (/usr/bin/python3)
  jinja version = 3.1.2
  libyaml = True
ubuntu@ip-172-31-38-66:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
     Active: active (running) since Wed 2024-10-09 10:29:56 UTC; 1min ago
       Main PID: 5556 (java)
          Tasks: 39 (limit: 1078)
        Memory: 263.3M (peak: 338.5M)
         CPU: 29.029s
        CGroup: /system.slice/jenkins.service
              └─5556 /usr/bin/java.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Oct 09 10:29:49 ip-172-31-38-66 jenkins[5556]: c2ff190526ea45a1bb0b86af15e4db
Oct 09 10:29:49 ip-172-31-38-66 jenkins[5556]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Oct 09 10:29:49 ip-172-31-38-66 jenkins[5556]: ****
Oct 09 10:29:56 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.020+0000 [id=32]      INFO  jenkins.InitReactorRunner$1#onAttained: Completed init
Oct 09 10:29:56 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.072+0000 [id=24]      INFO  hudson.lifecycle.Lifecycle$OnReady: Jenkins is fully up
Oct 09 10:29:56 ip-172-31-38-66 systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
Oct 09 10:29:56 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.271+0000 [id=49]      INFO  h.m.DownloadService$Downloadable#load: Obtained the up
Oct 09 10:29:56 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.273+0000 [id=49]      INFO  hudson.util.Retrier#start: Performed the action check

ubuntu@ip-172-31-38-66:~$ sudo systemctl status prometheus
● prometheus.service - Prometheus
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
     Active: active (running) since Wed 2024-10-09 10:36:20 UTC; 5min ago

```

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```

ubuntu@ip-172-31-38-66:~ Terminal Sessions View X server Tools Games Settings Macros Help Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help Quick connect... 12 ubuntu@ip-172-31-38-66 ~ 5 ubuntu@ip-172-31-38-66 ~
Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
Active: active (running) since Wed 2024-10-09 10:29:56 UTC; 1min ago
Main PID: 5556 (java)
Tasks: 39 (limit: 1078)
Memory: 263.3M (peak: 338.5M)
CPU: 29.029%
CGroup: /system.slice/jenkins.service
└─5556 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Oct 09 10:29:40 ip-172-31-38-66 jenkins[5556]: <20f190526e45phbk0b6sf15edfb
Oct 09 10:29:40 ip-172-31-38-66 jenkins[5556]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Oct 09 10:29:40 ip-172-31-38-66 jenkins[5556]: ****
Oct 09 10:29:40 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.020+0000 [id:32] INFO jenkins.InitReactorRunner$1#onAttained: Completed init
Oct 09 10:29:56 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.072+0000 [id:24] INFO hudson.lifecycle.Lifecycle$OnReady: Jenkins is fully up
Oct 09 10:29:56 ip-172-31-38-66 systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
Oct 09 10:29:56 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.271+0000 [id:49] INFO h.m.DownloadService$DownloadableLoad: Obtained the update
Oct 09 10:29:56 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.273+0000 [id:49] INFO hudson.util.Retrive#start: Performed the action check
Oct 09 10:29:56 ip-172-31-38-66 jenkins[5556]: 2024-10-09 10:29:56.273+0000 [id:49] INFO hudson.util.Retrive#start: Performed the action check

ubuntu@ip-172-31-38-66:~$ sudo systemctl status prometheus
● prometheus.service - Prometheus
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
   Active: active (running) since Wed 2024-10-09 10:36:20 UTC; 5min ago
     Main PID: 8 (lしつ: 2076)
       Tasks: 8 (limit: 1078)
      Memory: 73.2M (peak: 73.7M)
        CPU: 437ms
      CGroup: /system.slice/prometheus.service
             └─9136 /usr/local/bin/prometheus --config.file /etc/prometheus/prometheus.yml --storage.tsdb.path /var/lib/prometheus/ --web.console.templates=/var/lib/prometheus/web/console_landing

Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.913Z caller=head.go:658 level=info component=tsdb msg="On-disk memory mappable chunk"
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.913Z caller=head.go:664 level=info component=tsdb msg="Replaying WAL, this may take"
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.930Z caller=head.go:735 level=info component=tsdb msg="WAL segment loaded" segments=0
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.930Z caller=head.go:772 level=info component=tsdb msg="WAL replay completed" checkpoint="2024-10-09T10:36:20.930Z"
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.930Z caller=main.go:1626 level=info fs_type=EXT4_SUPER_MAGIC
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.930Z caller=main.go:1229 level=info msg="TSDB started"
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.930Z caller=main.go:1229 level=info msg="Loading configuration file" filename=/etc/p
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.947Z caller=math.go:999 level=info msg="Server is ready to receive web requests."
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.947Z caller=manager.go:974 level=info component="rule manager" msg="Starting rule ma
Oct 09 10:36:20 ip-172-31-38-66 prometheus[9136]: ts=2024-10-09T10:36:20.947Z caller=manager.go:974 level=info component="rule manager" msg="Starting rule ma

lines 1-20/20 (END)

```

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AWS Services Search [Alt+S] N. Virginia Sumati A Gadagi

[EC2](#) > [Instances](#) > [i-0484d0910abe5ff4a](#) > Connect to instance

Connect to instance [Info](#)

Connect to your instance i-0484d0910abe5ff4a (MyEC2Instance) using any of these options

[EC2 Instance Connect](#) [Session Manager](#) [SSH client](#) [EC2 serial console](#)

All ports are open to all IPv4 addresses in your security group

All ports are currently open to all IPv4 addresses, indicated by All and 0.0.0.0/0 in the inbound rule in your security group. For increased security, consider restricting access to only the EC2 Instance Connect service IP addresses for your Region: 18.206.107.24/29. [Learn more](#).

Instance ID: [i-0484d0910abe5ff4a](#) (MyEC2Instance)

Connection Type:

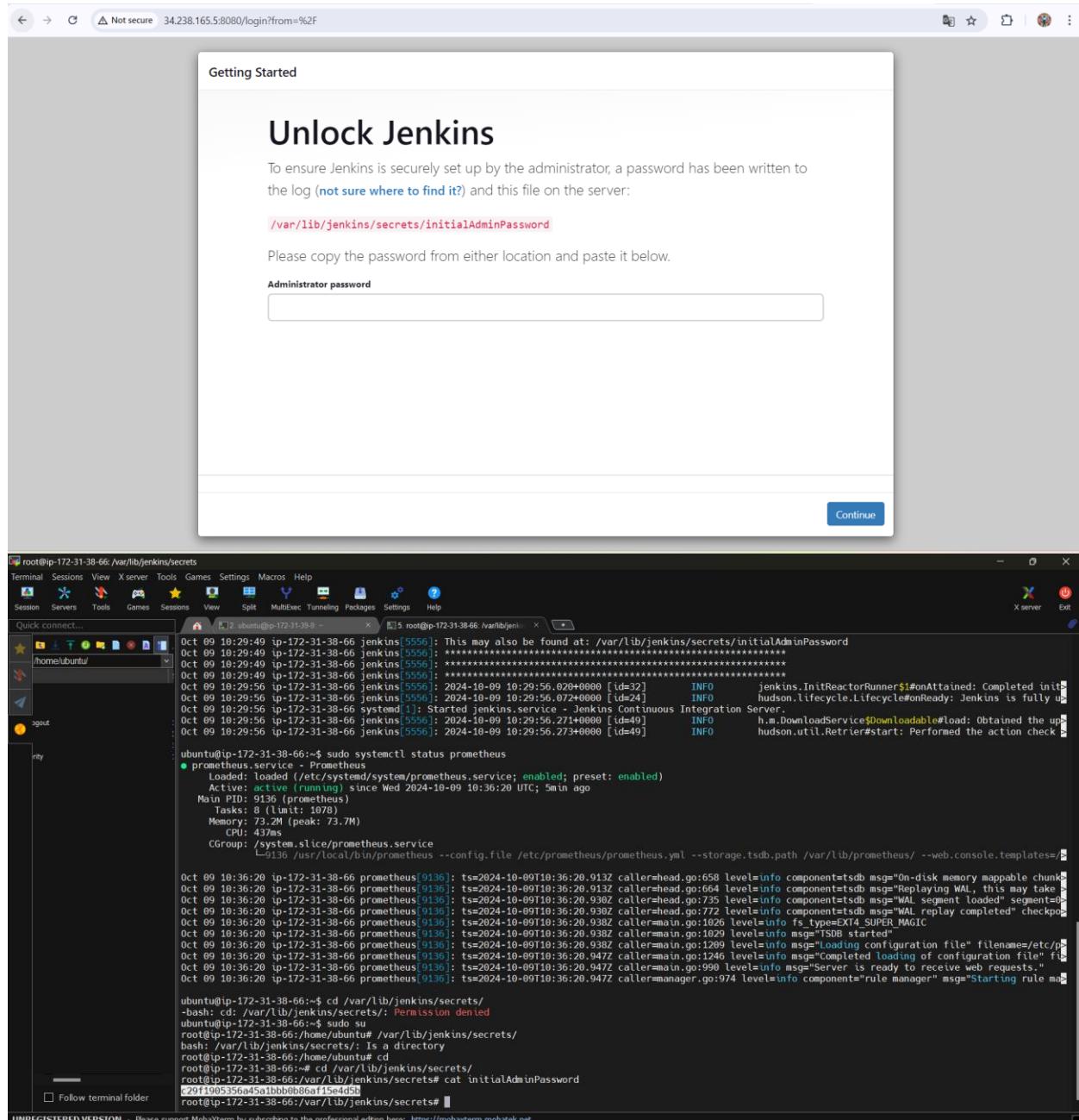
- Connect using EC2 Instance Connect
- Connect using EC2 Instance Connect Endpoint

Public IPv4 address copied

34.238.165.5

Username:

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences



Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

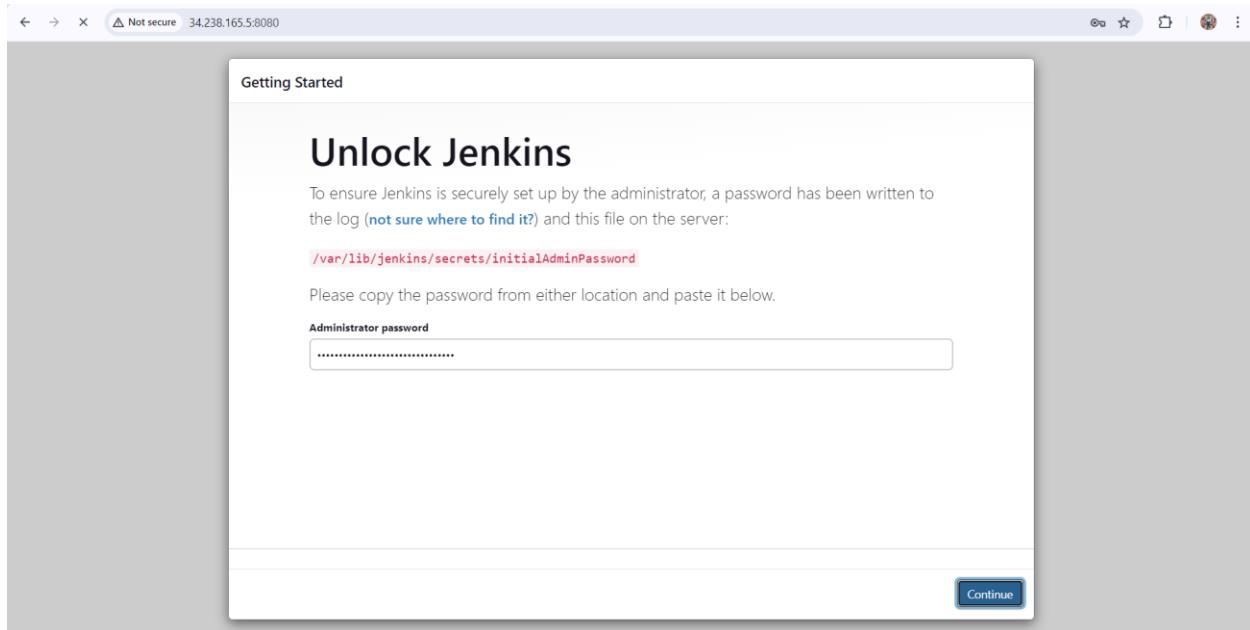
`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

.....

Continue



Getting Started

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

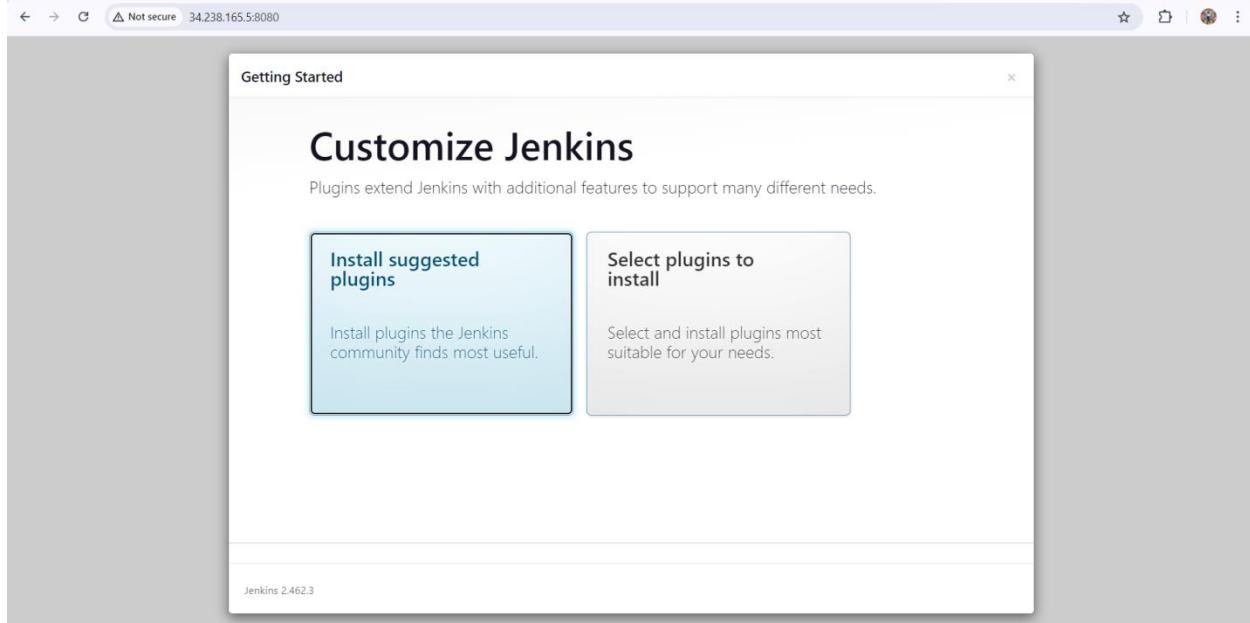
Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.462.3



Pipeline started:

The Jenkins dashboard displays a "Welcome to Jenkins!" message and a "Start building your software project" button. On the left, there are sections for "Build Queue" (No builds in the queue) and "Build Executor Status" (1 Idle, 2 Idle). On the right, there are links for "Create a job", "Set up a distributed build", "Set up an agent", "Configure a cloud", and "Learn more about distributed builds".

The GitHub repository page for "Banking-java-project" shows basic statistics: 1 Branch, 0 Tags, and 4 commits ahead of the master branch. It lists 17 commits from "swatigadagi" and provides links for README, Activity, Stars, Forks, Releases, Packages, and Languages.

Commit	Message	Date
.mvn/wrapper	first commit	8 months ago
src	Update application.properties	8 months ago
.DS_Store	first commit	8 months ago
.gitignore	first commit	8 months ago
Dockerfile	Update Dockerfile	3 months ago
Jenkinsfile	Update Jenkinsfile	yesterday
Jenkinsfile1	Create Jenkinsfile1	3 months ago
README.md	Create README.md	8 months ago
ansible-playbook.yml	11 files to ansible-playbook.yml	3 months ago

github.com/swatigadagi/Banking-java-project

swatigadagi / Banking-java-project

Type to search

Code Pull requests Actions Projects Wiki Security Insights Settings

Banking-java-project Public

forked from akshu20791/Banking-java-project

master 1 Branch Tags

This branch is 4 commits ahead of akshu20791/Banking-java-project:master.

swatigadagi Update Jenkinsfile

- .mvn/wrapper first commit
- src Update application.
- .DS_Store first commit
- .gitignore first commit
- Dockerfile Update Dockerfile
- Jenkinsfile Update Jenkinsfile yesterday
- Jenkinsfile1 Create Jenkinsfile1 3 months ago
- README.md Create README.md 8 months ago

Clone Local Codespaces

HTTPS SSH GitHub CLI

https://github.com/swatigadagi/Banking-java-project

Clone using the web URL.

Open with GitHub Desktop

Download ZIP

About Staragile

Readme Activity 0 stars 0 watching 0 forks

Releases No releases published Create a new release

Packages No packages published Publish your first package

Languages

Dashboard > Banking-project > Configuration

The screenshot shows a GitHub repository page for 'Banking-java-project'. It displays the repository's history with four commits ahead of the upstream master branch. Key files like Jenkinsfile, Dockerfile, and README.md are visible. On the right, there are sections for 'About' (Staragile), 'Releases' (no releases), 'Packages' (no packages), and 'Languages' (Java). Below the main repository view is a 'Configuration' section for a Jenkins pipeline job. The 'General' tab is selected, showing build settings like 'Discard old builds' and 'GitHub project'. The 'Enabled' toggle is turned on. At the bottom, there are 'Save' and 'Apply' buttons.

Configure

General

Enabled

General

Advanced Project Options

Pipeline

Description

Plain text [Preview](#)

- Discard old builds ?
- Do not allow concurrent builds
- Do not allow the pipeline to resume if the controller restarts
- GitHub project
- Pipeline speed/durability override ?
- Preserve stashes from completed builds ?

[Save](#)

[Apply](#)

Dashboard > Banking-project > Configuration

Configure

Discard old builds ?
 Do not allow concurrent builds
 Do not allow the pipeline to resume if the controller restarts

GitHub project
Project url ?
https://github.com/swatigadagi/Banking-java-project.git

Pipeline speed/durability override ?
 Preserve stashes from completed builds ?
 This project is parameterised ?
 Throttle builds ?

Build Triggers

Save **Apply**

Dashboard > Banking-project > Configuration

Configure

General
 Advanced Project Options
 Pipeline

Pipeline

Definition
Pipeline script from SCM

SCM ?
Git

Repositories ?

Repository URL ?
[Empty input field]
X

Credentials ?
[Empty input field]
+ Add

Save **Apply**

Dashboard > Banking-project > Configuration

Configure

General Advanced Project Options Pipeline

Advanced

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/master

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Script Path ?

Jenkinsfile

Credentials created

Save Apply

Dashboard > Manage Jenkins

Manage Jenkins

Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#).

Search settings

New Item Build History Manage Jenkins My Views

Set up agent Set up cloud Dismiss

System Configuration

Build Queue

No builds in the queue.

Build Executor Status

1 Idle
2 Idle

System Tools Plugins

Configure global settings and paths.

Configure tools, their locations and automatic installers.

Add, remove, disable or enable plugins that can extend the functionality of Jenkins.

Nodes Clouds Appearance

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

Add, remove, and configure cloud instances to provision agents on-demand.

Configure the look and feel of Jenkins.

Security

Security Credentials Credential Providers

Secure Jenkins; define who is allowed to access/use the system.

Configure credentials

Configure the credential providers and types

 Jenkins

Dashboard > New Item

New Item

Enter an item name

Select an item type



Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.



Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.



Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different

OK

 Jenkins

Dashboard > New Item

New Item

Enter an item name

Select an item type



Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



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Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different

OK

Configure

General

Advanced Project Options

Pipeline

Plain text [Preview](#)

Discard old builds ?

Do not allow concurrent builds

Do not allow the pipeline to resume if the controller restarts

GitHub project

Project url ?

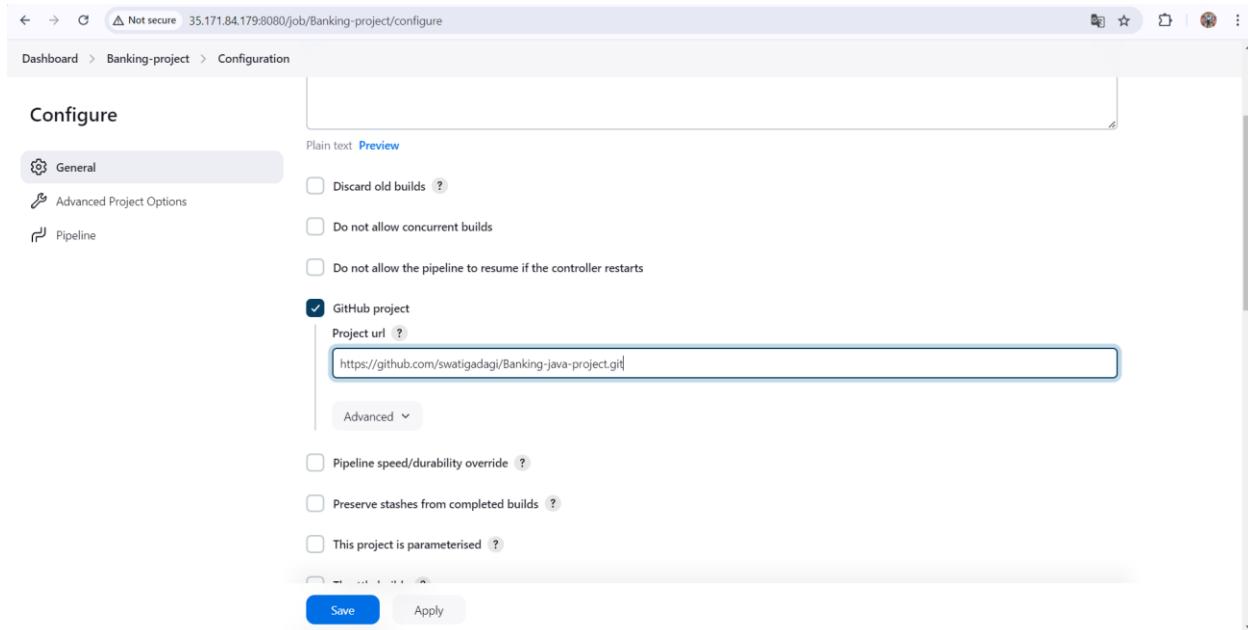
Advanced ▾

Pipeline speed/durability override ?

Preserve stashes from completed builds ?

This project is parameterised ?

[Save](#) [Apply](#)



Configure

General

Advanced Project Options

Pipeline

SCM ?

Git

Repositories ?

Repository URL ?

Credentials ?

- none -

+ Add

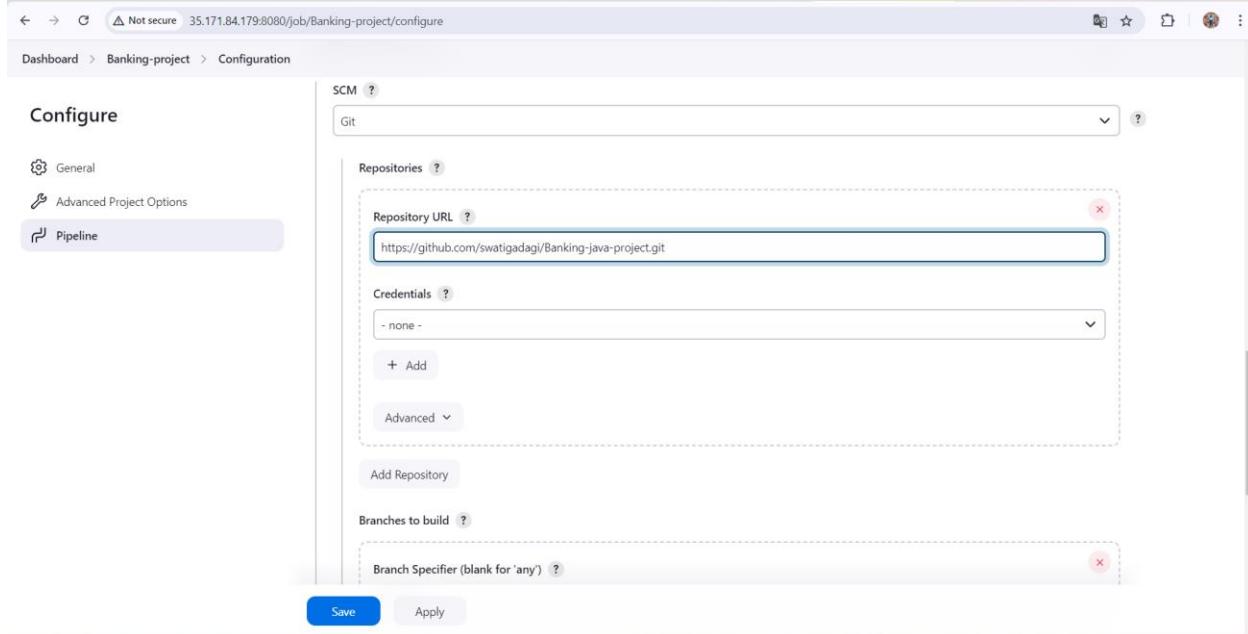
Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

[Save](#) [Apply](#)



Credentials configured in Jenkins:

Not secure 35.171.84.179:8080/job/Banking-project/configure

Dashboard > Banking-project > Configuration

Configure Jenkins Credentials Provider: Jenkins

ubuntu

Treat username as secret ?

Private Key

Enter directly

Key

```
s1VnrcQKggQCpmatCs75jnlMggqkkn/7Pqamr+ZDCLCgBXACUBPoHMBRtEELvCD69J  
6U1nQKj4R1UsdrMf1fSgu5BmHoehMfDPC91Ww1jQADAdBB6vqMRPd+gEcCx  
p7SbbfrOKV1svRCbeQkdk1alyRJ3PvTGrUMxsUnfr5m3Nm6GRycfew==  
----END RSA PRIVATE KEY----- |
```

Passphrase

Enter New Secret Below

Cancel Add

Save Apply

Dashboard > Banking-project > Configuration

Configure

General

Advanced Project Options

Pipeline

Credentials ?

35.171.84.179

+ Add

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

/master

Add Branch

Repository browser ?

(Auto)

Save Apply

Maven and JDK Configured in tools and configuration of Jenkins global configuration:

The screenshot shows the Jenkins Global Configuration interface under the 'Tools' section. It displays three main sections: JDK, Git, and Maven.

JDK Configuration:

- Name: JAVA_HOME
- JAVA_HOME: /usr/lib/jvm/default-java
- Install automatically

Git Configuration:

- Name: (empty)

Maven Configuration:

- Name: MAVEN_HOME
- MAVEN_HOME: /opt/apache-maven-3.9.7
- Install automatically

At the bottom, there are 'Save' and 'Apply' buttons, and a status bar indicating Jenkins 2.462.3.

Jenkins

Dashboard >

+ New Item

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

All +

Name: Banking-project

Last Success: N/A

Last Failure: N/A

Last Duration: N/A

Add description

Icon: S M L

REST API Jenkins 2.462.3

Jenkins

Dashboard > Banking-project > #1

Status

Changes

Console Output

Edit Build Information

Timings

Git Build Data

Pipeline Overview

Pipeline Console

Thread Dump

Pause/resume

Replay

Pipeline Steps

Workspaces

Console Output

Started by user Sumati A Gadagi
Obtained Jenkinsfile from git <https://github.com/swatigadagi/Banking-java-project.git>
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Banking-project
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
[Pipeline] checkout
The recommended git tool is: git
using credential 35.171.84.179
Cloning the remote Git repository
Cloning repository <https://github.com/swatigadagi/Banking-java-project.git>
> git init /var/lib/jenkins/workspace/Banking-project # timeout=10
Fetching upstream changes from <https://github.com/swatigadagi/Banking-java-project.git>
> git --version # 'git version 2.43.0'
using GIT_SSH to set credentials
Verifying host key using known hosts file
You're using 'Known hosts file' strategy to verify ssh host keys, but your known_hosts file does not exist, please go to 'Manage Jenkins' -> 'Security' -> 'Git Host Key Verification Configuration' and configure host key verification.
> git fetch --tags --force --progress -- <https://github.com/swatigadagi/Banking-java-project.git> +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url <https://github.com/swatigadagi/Banking-java-project.git> # timeout=10
> git config remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10

Progress: Download Copy View as plain text

```
Dashboard > Banking-project > #1
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-parent/2.7.4/spring-boot-starter-parent-2.7.4.pom
Progress (1): 2.8/9.2 kB
Progress (1): 5.5/9.2 kB
Progress (1): 8.3/9.2 kB
Progress (1): 9.2 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-parent/2.7.4/spring-boot-starter-parent-2.7.4.pom (9.2 kB at 37 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-dependencies/2.7.4/spring-boot-dependencies-2.7.4.pom
Progress (1): 4.1/108 kB
Progress (1): 8.2/108 kB
Progress (1): 12/108 kB
Progress (1): 16/108 kB
Progress (1): 20/108 kB
Progress (1): 25/108 kB
Progress (1): 29/108 kB
Progress (1): 33/108 kB
Progress (1): 37/108 kB
Progress (1): 41/108 kB
Progress (1): 45/108 kB
Progress (1): 49/108 kB
Progress (1): 53/108 kB
Progress (1): 57/108 kB
Progress (1): 61/108 kB
Progress (1): 66/108 kB
Progress (1): 70/108 kB
Progress (1): 74/108 kB
Progress (1): 78/108 kB
Progress (1): 82/108 kB

Dashboard > Banking-project > #1
Progress (1): 24 kB

Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/oss-parent/43/oss-parent-43.pom (24 kB at 1.1 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/glassfish/jersey/jersey-bom/2.35/jersey-bom-2.35.pom
Progress (1): 4.1/19 kB
Progress (1): 8.2/19 kB
Progress (1): 12/19 kB
Progress (1): 16/19 kB
Progress (1): 19 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/glassfish/jersey/jersey-bom/2.35/jersey-bom-2.35.pom (19 kB at 623 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/eclipse/ee4j/project/1.0.6/project-1.0.6.pom
Progress (1): 4.1/13 kB
Progress (1): 8.2/13 kB
Progress (1): 12/13 kB
Progress (1): 13 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/eclipse/ee4j/project/1.0.6/project-1.0.6.pom (13 kB at 702 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/eclipse/jetty/jetty-bom/9.4.49.v20220914/jetty-bom-9.4.49.v20220914.pom
Progress (1): 4.1/18 kB
Progress (1): 8.2/18 kB
Progress (1): 12/18 kB
Progress (1): 16/19 kB
Progress (1): 18 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/eclipse/jetty/jetty-bom/9.4.49.v20220914/jetty-bom-9.4.49.v20220914.pom (18 kB at 841 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/junit/junit-bom/5.8.2/junit-bom-5.8.2.pom
Progress (1): 4.1/5.6 kB
Progress (1): 5.6 kB

https://repo.maven.apache.org/maven2/org/eclipse/ee4j/project/1.0.6/project-1.0.6.pom
```

Dashboard > Banking-project > #1

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/34/maven-plugins-34.pom (11 kB at 972 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/34/maven-parent-34.pom
Progress (1): 4.1/43 kB
Progress (1): 8.2/43 kB
Progress (1): 12/43 kB
Progress (1): 16/43 kB
Progress (1): 20/43 kB
Progress (1): 24/43 kB
Progress (1): 28/43 kB
Progress (1): 32/43 kB
Progress (1): 36/43 kB
Progress (1): 40/43 kB
Progress (1): 43 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/34/maven-parent-34.pom (43 kB at 2.4 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/23/apache-23.pom
Progress (1): 4.1/18 kB
Progress (1): 8.2/18 kB
Progress (1): 12/18 kB
Progress (1): 16/18 kB
Progress (1): 18 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/23/apache-23.pom (18 kB at 1.5 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.2.0/maven-resources-plugin-3.2.0.jar
Progress (1): 4.1/33 kB
Progress (1): 8.2/33 kB
Progress (1): 12/33 kB
Progress (1): 16/33 kB
Progress (1): 20/33 kB
Progress (1): 24/33 kB
```

Dashboard > Banking-project > #1

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/spring-tx/5.3.23/spring-tx-5.3.23.pom (2.2 kB at 201 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/jakarta/transaction/jakarta.transaction-api/1.3.3/jakarta.transaction-api-1.3.3.pom
Progress (1): 4.1/13 kB
Progress (1): 8.2/13 kB
Progress (1): 12/13 kB
Progress (1): 13 kB

Downloaded from central: https://repo.maven.apache.org/maven2/jakarta/transaction/jakarta.transaction-api/1.3.3/jakarta.transaction-api-1.3.3.pom (13 kB at 1.5 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/jakarta/persistence/jakarta.persistence-api/2.2.3/jakarta.persistence-api-2.2.3.pom
Progress (1): 4.1/13 kB
Progress (1): 8.2/13 kB
Progress (1): 12/13 kB
Progress (1): 13 kB

Downloaded from central: https://repo.maven.apache.org/maven2/jakarta/persistence/jakarta.persistence-api/2.2.3/jakarta.persistence-api-2.2.3.pom (13 kB at 1.4 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/hibernate/hibernate-core/5.6.11.Final/hibernate-core-5.6.11.Final.pom
Progress (1): 4.1/5.5 kB
Progress (1): 5.5 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/hibernate/hibernate-core/5.6.11.Final/hibernate-core-5.6.11.Final.pom (5.5 kB at 457 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/jboss/logging/jboss-logging/3.4.3.Final/jboss-logging-3.4.3.Final.pom
Progress (1): 4.1/15 kB
Progress (1): 8.2/15 kB
Progress (1): 12/15 kB
Progress (1): 15 kB
```

```
[0;1;34mINFO[m]
[0;1;34mINFO[m] @1m--- @0;32maven-resources-plugin:3.2.0:resources@m @1m(default-resources)@m @ @36mbanking@0;1m ---@m
[0;1;34mINFO[m] Using 'UTF-8' encoding to copy filtered resources.
[0;1;34mINFO[m] Using 'UTF-8' encoding to copy filtered properties files.
[0;1;34mINFO[m] Copying 1 resource
[0;1;34mINFO[m] Copying 81 resources
[0;1;34mINFO[m]
[0;1;34mINFO[m] @1m--- @0;32maven-compiler-plugin:3.10.1:compile@m @1m(default-compile)@m @ @36mbanking@0;1m ---@m
[0;1;34mINFO[m] Nothing to compile - all classes are up to date
[0;1;34mINFO[m]
[0;1;34mINFO[m] @1m--- @0;32maven-resources-plugin:3.2.0:testResources@m @1m(default-testResources)@m @ @36mbanking@0;1m ---@m
[0;1;34mINFO[m] Using 'UTF-8' encoding to copy filtered resources.
[0;1;34mINFO[m] Using 'UTF-8' encoding to copy filtered properties files.
[0;1;34mINFO[m] skip non existing resourceDirectory /var/lib/jenkins/workspace/Banking-project@2/src/test/resources
[0;1;34mINFO[m]
[0;1;34mINFO[m] @1m--- @0;32maven-compiler-plugin:3.10.1:testCompile@m @1m(default-testCompile)@m @ @36mbanking@0;1m ---@m
[0;1;34mINFO[m] Nothing to compile - all classes are up to date
[0;1;34mINFO[m]
[0;1;34mINFO[m] @1m--- @0;32mmaven-surefire-plugin:2.22.2:test@m @1m(default-test)@m @ @36mbanking@0;1m ---@m
[0;1;34mINFO[m]
[0;1;34mINFO[m] -----
[0;1;34mINFO[m] T E S T S
[0;1;34mINFO[m] -----
```

Dashboard > Banking-project > #7

```

#4 DONE 16.0s

#6 [2/2] COPY target/*.jar app.jar
#6 DONE 0.5s

#7 exporting to image
#7 exporting layers 0.1s done
#7 writing image sha256:64eebefff645f2ed1c00d7cad1a6ebbf61cee83afcaa5328234f057a1e939d6a done
#7 naming to docker.io/library/myimg done
#7 DONE 0.1s
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (port expose)
[Pipeline] sh
+ docker run -dt -p 8091:8091 --name c000 myimg
5e08660d616f643622e46c387cfb0996e34b626140c84fed9809a4eea4b5719
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

```

REST API Jenkins 2.462.3

Application is running on port 8091:

The screenshot shows a web browser window with the following details:

- Address Bar:** Not secure 54.173.84.113:8091
- Header:** Cial
- Navigation:** HOME, ABOUT, SERVICES, TEAM, CONTACT US
- Section:** CUSTOMER BANKING SERVICES
- Text:** We provide the World's best in class Banking Solutions and Services.
- Buttons:** READ MORE (red), CONTACT US (blue)
- Illustration:** A circular illustration featuring a man sitting at a desk with a computer monitor, another man standing with a laptop, and a third person partially visible. The background includes abstract shapes like wavy lines and circles in blue, green, and grey.

Sumati A Gadagi

EC2 Dashboard EC2 Global View Events Console-to-Code [Preview](#)

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes
- Snapshots

CloudShell Feedback

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Instance summary for i-07830d62c64b9c836 (MyEC2Instance) [Info](#)

Updated 27 minutes ago

Instance ID: i-07830d62c64b9c836 (MyEC2Instance)

IPv6 address: -

Hostname type: IP name: ip-172-31-44-201.ec2.internal

Answer private resource DNS name: -

Auto-assigned IP address: 54.173.84.113 [Public IP]

IAM Role: IAM Role Required

Private IPv4 address copied: 54.173.84.113 | [open address](#)

Instance state: Running

Private IP DNS name (IPv4 only): ip-172-31-44-201.ec2.internal

Instance type: t3a.medium

VPC ID: vpc-048d2fa7a91112d16

Subnet ID: subnet-03f0d42a9d2e5714a

Instance ARN: arn:aws:ec2:us-east-1:047719661658:instance/i-07830d62c64b9c836

Private IPv4 addresses: 172.31.44.201

Public IPv4 DNS: ec2-54-173-84-113.compute-1.amazonaws.com | [open address](#)

Elastic IP addresses: -

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

Auto Scaling Group name: -

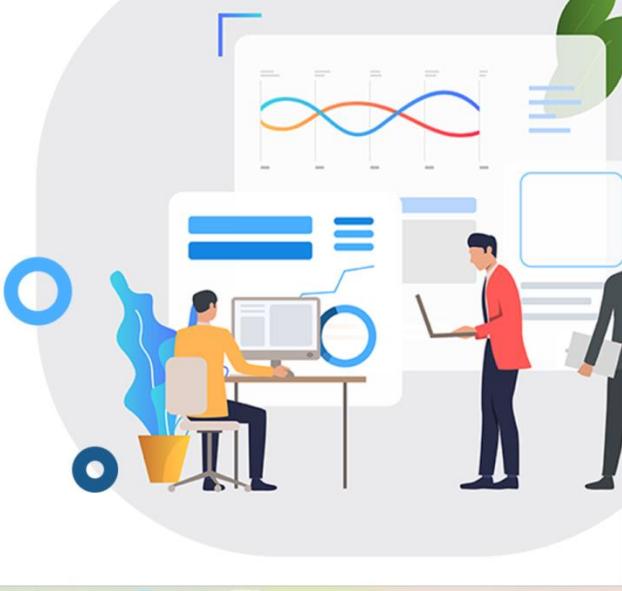
CIAL

HOME ABOUT SERVICES TEAM CONTACT US

CUSTOMER BANKING SERVICES

We provide the World's best in class Banking Solutions and Services.

READ MORE [CONTACT US](#)



← → ⌂ Not secure 54.173.84.113:8091

SERVICES

The world class banking services that we provide are current and savings accounts, loan and mortgage services, wealth management, providing Credit and Debit Cards, Overdraft services.

[Read More](#)



WHAT WE DO

World's best in class banking services ad solutionsn



ACCOUNTING



ADVISOR

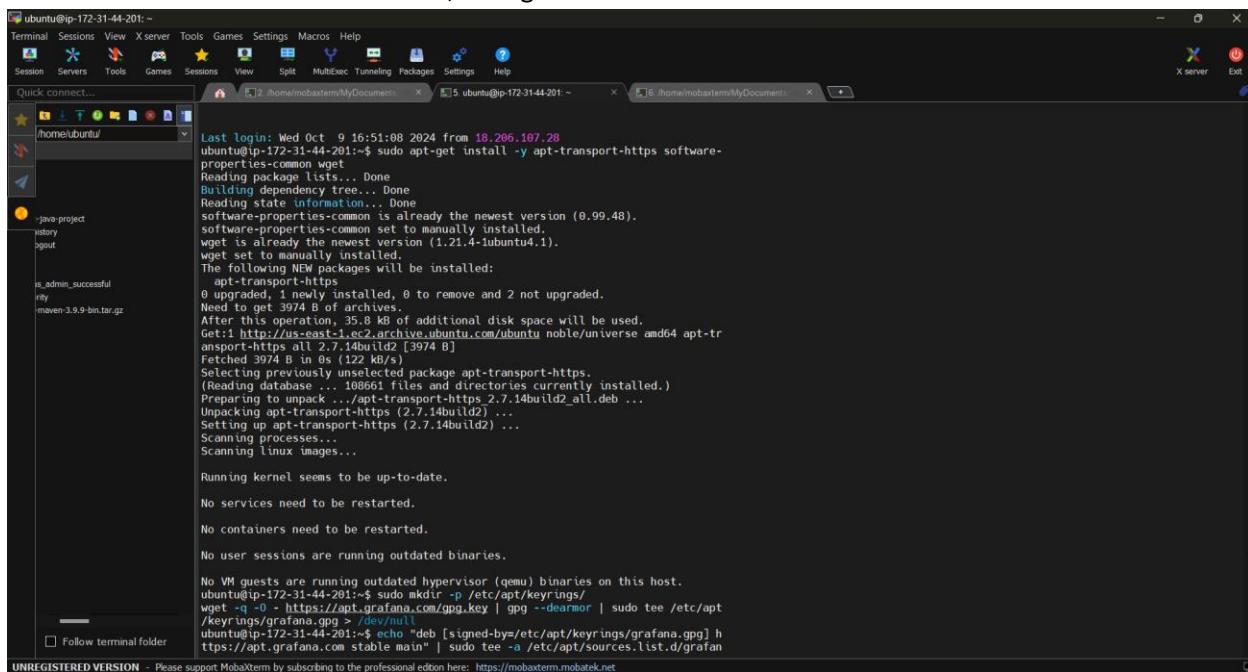


INVESTMENT



FINANCIAL

Grafana and Prometheus installation , configuration and Dashboard



```
Last login: Wed Oct  9 16:51:08 2024 from 18.206.107.28
ubuntu@ip-172-31-44-201:~$ sudo apt-get install -y apt-transport-https software-properties-common wget
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
software-properties-common is already the newest version (0.99.48).
software-properties-common set to manually installed.
wget is already the newest version (1.21.4-1ubuntu4.1).
wget set to manually installed.
The following NEW packages will be installed:
  apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 2 not upgraded.
Need to get 3974 B of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 apt-tr
ansport-https all 2.7.14build2 [3974 B]
Fetched 3974 B in 0s (122 kB/s)
Setting up apt-transport-https (2.7.14build2) ...
Setting up apt-transport-https (2.7.14build2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-44-201:~$ sudo mkdir -p /etc/apt/keyrings/
wget -q -O - https://apt.grafana.com/gpg.key | gpg --dearmor | sudo tee /etc/apt
/keyrings/grafana.gpg > /dev/null
ubuntu@ip-172-31-44-201:~$ echo "deb [signed-by=/etc/apt/keyrings/grafana.gpg] h
ttps://apt.grafana.com stable main" | sudo tee -a /etc/apt/sources.list.d/grafan
a

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```

ubuntu@ip-172-31-44-201: ~

```

Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
[ /home/ubuntu/ ] [ /home/mobasterm/MyDocuments ] [ /5 ubuntu@ip-172-31-44-201: ~ ] [ /6 .home/mobasterm/MyDocuments ] [ + ]
W: Target Packages (main/binary-all/Packages) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target Translations (main/i18n/Translation-en) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target DEP-11 (main/dep11/Components-amd64.yml) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target DEP-11 (main/dep11/Components-all.yml) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target CNF (main/cnf/Commands-amd64) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target CNF (main/cnf/Commands-all) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target Packages (main/binary-amd64/Packages) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target Packages (main/binary-all/Packages) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target Translations (main/i18n/Translation-en) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target DEP-11 (main/dep11/Components-amd64.yml) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target DEP-11 (main/dep11/Components-all.yml) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target CNF (main/cnf/Commands-amd64) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target CNF (main/cnf/Commands-all) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
ubuntu@ip-172-31-44-201:~$ # Updates the list of available packages
sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu noble InRelease
Hit:5 https://apt.grafana.com stable InRelease
Hit:6 https://apt.grafana.com beta InRelease

```

Follow terminal folder

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ubuntu@ip-172-31-44-201: ~

```

Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
[ /home/ubuntu/ ] [ /home/mobasterm/MyDocuments ] [ /5 ubuntu@ip-172-31-44-201: ~ ] [ /6 .home/mobasterm/MyDocuments ] [ + ]
W: Target CNF (main/cnf/Commands-all) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target Packages (main/binary-amd64/Packages) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target DEP-11 (main/dep11/Components-amd64.yml) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
W: Target Translations (main/i18n/Translation-en) is configured multiple times in /etc/apt/sources.list.d/grafana.list:1 and /etc/apt/sources.list.d/grafana.list:2
ubuntu@ip-172-31-44-201:~$ # Installs the latest OSS release:
sudo apt-get install grafana
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  musl
The following NEW packages will be installed:
  grafana musl
0 upgraded, 2 newly installed, 0 to remove and 2 not upgraded.
Need to get 123 MB of archives.
After this operation, 463 MB of additional disk space will be used.
Do you want to continue? [Y/n] yes
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 musl amd64 1.2.4-2 [416 kB]
Get:2 https://apt.grafana.com stable/main amd64 grafana amd64 11.2.2 [122 MB]
Get:3 https://apt.grafana.com stable/main amd64 libcurl4-openssl-dev amd64 7.68.0-1 [45.4 MB]
Selecting previously unselected package musl:amd64.
(Reading database ... 108665 files and directories currently installed.)
Preparing to unpack .../musl_1.2.4-2_amd64.deb ...
Unpacking musl:amd64 (1.2.4-2)...
Selecting previously unselected package grafana.
Preparing to unpack .../grafana_11.2.2_amd64.deb ...
Preparing to unpack .../grafana_11.2.2_amd64.deb ...

```

Follow terminal folder

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```

ubuntu@ip-172-31-44-201: ~
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunnelling Packages Settings Help
Quick connect...
/home/ubuntu/ /home/ubuntu@ip-172-31-44-201: ~ /home/ubuntu@ip-172-31-44-201: ~
Session Servers Tools Games Sessions View Split MultiExec Tunnelling Packages Settings Help
X server Exit
sudo apt-get install grafana-enterprise
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages will be REMOVED:
  grafana
The following NEW packages will be installed:
  grafana-enterprise
0 upgraded, 1 newly installed, 1 to remove and 2 not upgraded.
Need to get 128 MB of archives.
After this operation, 9.0 MB of additional disk space will be used.
Do you want to continue? [Y/n] yes
Get:1 https://apt.grafana.com/stable/main amd64 grafana-enterprise amd64 11.2.2 [128 MB]
Fetched 128 MB in 47.2 MB/s
(Reading database ... 118406 files and directories currently installed.)
Removing grafana (11.2.2) ...
Stopping and disabling grafana-server service...
Synchronizing state of grafana-server.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install disable grafana-server
Selecting previously unselected package grafana-enterprise.
(Reading database ... 108682 files and directories currently installed.)
Preparing to unpack .../grafana-enterprise_11.2.2_amd64.deb ...
Unpacking grafana-enterprise (11.2.2) ...
### BEGIN PGP SIGNATURE

### END PGP SIGNATURE
You can start grafana-server by executing
  sudo /bin/systemctl start grafana-server
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-44-201:~$ 

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ubuntu@ip-172-31-44-201: ~
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunnelling Packages Settings Help
X server Exit
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-44-201:~$ sudo systemctl status grafana-server
● grafana-server.service - Grafana instance
  Loaded: loaded (/usr/lib/systemd/system/grafana-server.service; disabled; preset: enabled)
    Active: inactive (dead)
      Docs: http://docs.grafana.org
ubuntu@ip-172-31-44-201:~$ sudo systemctl enable grafana-server
Synchronizing state of grafana-server.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable grafana-server
Created symlink /etc/systemd/system/multi-user.target.wants/grafana-server.service → /usr/lib/systemd/system/grafana-server.service.
ubuntu@ip-172-31-44-201:~$ sudo systemctl status grafana-server
● grafana-server.service - Grafana instance
  Loaded: loaded (/usr/lib/systemd/system/grafana-server.service; enabled; preset: enabled)
    Active: active (running) since Wed 2024-10-09 17:26:45 UTC; 8s ago
      Docs: http://docs.grafana.org
Main process: 7910 /usr/share/grafana/bin/grafana server --config=/etc/grafana/grafana.ini --pidfile=/run/grafana/grafana-server.pid --packaging=deb cfg:de
          Tasks: 7 (limit: 4000)
         Memory: 34.3M (peak: 34.7M)
            CPU: 4.984s
           CGroup: /system.slice/grafana-server.service
                    └─ 7910 /usr/share/grafana/bin/grafana server --config=/etc/grafana/grafana.ini --pidfile=/run/grafana/grafana-server.pid --packaging=deb cfg:de

Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.0796316Z level=info msg="Executing migration" id="Add PDF landscape opt
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.099344863Z level=info msg="Migration successfully executed" id="Add PDF l
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.109369661Z level=info msg="Executing migration" id="Add monthly day sche
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.125312182Z level=info msg="Migration successfully executed" id="Add mont
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.133061739Z level=info msg="Executing migration" id="Add PDF layout opti
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.151976439Z level=info msg="Migration successfully executed" id="Add PDF la
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.161491070Z level=info msg="Migration successfully executed" id="Add PDF o
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.181747137Z level=info msg="Migration successfully executed" id="Add PDF o
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.194623458Z level=info msg="Executing migration" id="Update report pdf_o
Oct 09 17:26:45 ip-172-31-44-201 grafana[7910]: logger@migrator t=2024-10-09T17:26:54.195210277Z level=info msg="Migration successfully executed" id="Update r
Lines 1-21/21 (END)

```

The screenshot shows the Grafana interface. At the top, a modal dialog titled "Update your password" is displayed. It contains a warning message: "Continuing to use the default password exposes you to security risks." Below the message are two input fields: "New password" containing "admin_1" and "Confirm new password" also containing "admin_1". A blue "Submit" button is at the bottom of the dialog, and a "Skip" link is below it. The background shows the Grafana home page with a dark theme. The header includes links for Documentation, Support, Community, Enterprise (Free & unlicensed), and Grafana v11.2.2 (c47b921ef4). The main content area features a "Welcome to Grafana" message and sections for Basic setup, TUTORIAL, DATA SOURCES, and DASHBOARDS. A sidebar on the left lists Home, Starred, Dashboards, Explore, Alerting, Connections, and Administration. A footer at the bottom right shows "Latest from the blog" with icons for Parser, Engine, and other components.

The image consists of two screenshots of the Grafana interface.

The top screenshot shows the "New dashboard" page. The left sidebar has "Dashboards" selected. The main area contains a central box with the heading "Start your new dashboard by adding a visualization" and a sub-instruction: "Select a data source and then query and visualize your data with charts, stats and tables or create lists, markdowns and other widgets." Below this is a blue button labeled "+ Add visualization". Below the main box are two smaller boxes: "Import panel" (with a sub-instruction "Add visualizations that are shared with other dashboards." and a button "+ Add library panel") and "Import a dashboard" (with a sub-instruction "Import dashboards from files or grafana.com." and a button "Import dashboard").

The bottom screenshot shows the "Data sources" page for the "prometheus" connection. The left sidebar has "Data sources" selected. The main area shows the "prometheus" data source settings. At the top, it says "Type: Prometheus" and "Alerting Supported". Below this is a tab bar with "Settings" (selected) and "Dashboards". A search bar shows "Name: prometheus" and a "Default" toggle switch. A note below the search bar states: "Before you can use the Prometheus data source, you must configure it below or in the config file. For detailed instructions, [view the documentation](#)". A note at the bottom of the page says "Fields marked with * are required".

The screenshot shows the Grafana interface for managing data sources. The left sidebar navigation bar includes Home, Starred, Dashboards, Explore, Alerting, Connections (which is expanded to show 'Add new connection' and 'Data sources'), and Administration.

The main content area displays the configuration for a 'prometheus' data source. At the top, the URL is set to `http://54.173.84.113:9090/`. Below this, the 'Authentication' section is configured with 'Basic authentication' selected. It requires a 'User' (set to 'User') and a 'Password' (with a placeholder message 'Please fill out this field.').

The 'TLS settings' section contains three optional checkboxes: 'Add self-signed certificate', 'TLS Client Authentication', and 'Skip TLS certificate validation'. The 'HTTP headers' section is collapsed.

The 'Performance' section includes settings for 'Prometheus type' (set to 'Choose'), 'Cache level' (set to 'Low'), 'Incremental querying (beta)' (disabled), and 'Disable recording rules (beta)' (disabled). The 'Other' section allows setting 'Custom query parameters' (example: `max_source_resolution=5m&timeout`) and choosing the 'HTTP method' (set to 'POST').

The 'Exemplars' section has a '+ Add' button. At the bottom of the configuration panel are 'Delete' and 'Save & test' buttons.

The image shows two screenshots of the Grafana interface.

Top Screenshot: Importing a Dashboard

The URL is [https://grafana.com/dashboards/import](#). The page title is "Importing dashboard from Grafana.com".

- Published by:** rfmoz
- Updated on:** 2024-05-22 21:37:35

Options:

- Name:** Node Exporter Full
- Folder:** Dashboards

Unique identifier (UID): The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafana installs. The UID allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard.

UID: rYdddIPWk [Change uid](#)

Prometheus [Prometheus](#)

[Import](#) [Cancel](#)

Bottom Screenshot: Data Source Configuration

The URL is [https://grafana.com/grafana/datasources/prometheus-1](#). The page title is "prometheus-1".

Type: Prometheus **Alerting:** Supported **Explore data:** Supported **Build a dashboard:** Supported

Connection:

Prometheus server URL * [http://54.173.84.113:9090/](#)

Authentication:

The image displays two screenshots of the Grafana interface.

Top Screenshot: Data Sources Configuration

This screenshot shows the "Data sources" configuration page for a connection named "prometheus-1".

- Left sidebar:** Home, Starred, Dashboards, Explore, Alerting, Connections (selected), Add new connection, Data sources (selected), Administration.
- Content Area:**
 - HTTP headers:** Pass along additional context and metadata about the request/response.
 - Advanced settings:** Additional settings are optional settings that can be configured for more control over your data source.
 - Advanced HTTP settings:**
 - Allowed cookies: New cookie (hit enter to add) Add
 - Timeout: Timeout in seconds
 - Alerting:** Manage alerts via Alerting UI
 - Interval behaviour:**
 - Scrape interval: 15s
 - Query timeout: 60s

Bottom Screenshot: Time Series Panel Editor

This screenshot shows the "Edit panel" screen for a new dashboard.

 - Left sidebar:** Home, Starred, Dashboards (selected), Explore, Alerting, Connections, Administration.
 - Panel Title:** Panel Title
 - Time Range:** Last 6 hours
 - Panel Type:** Time series
 - Query Inspector:**
 - Data source: Grafana
 - Query type: Random Walk
 - + Add query
 - Panel Options:**
 - Title: Panel Title
 - Description
 - Transparent background:
 - Panel links
 - Repeat options
 - Tooltip:**
 - Tooltip mode: Single All Hidden
 - Hover proximity: How close the cursor must be to a point to trigger the tooltip, in pixels

