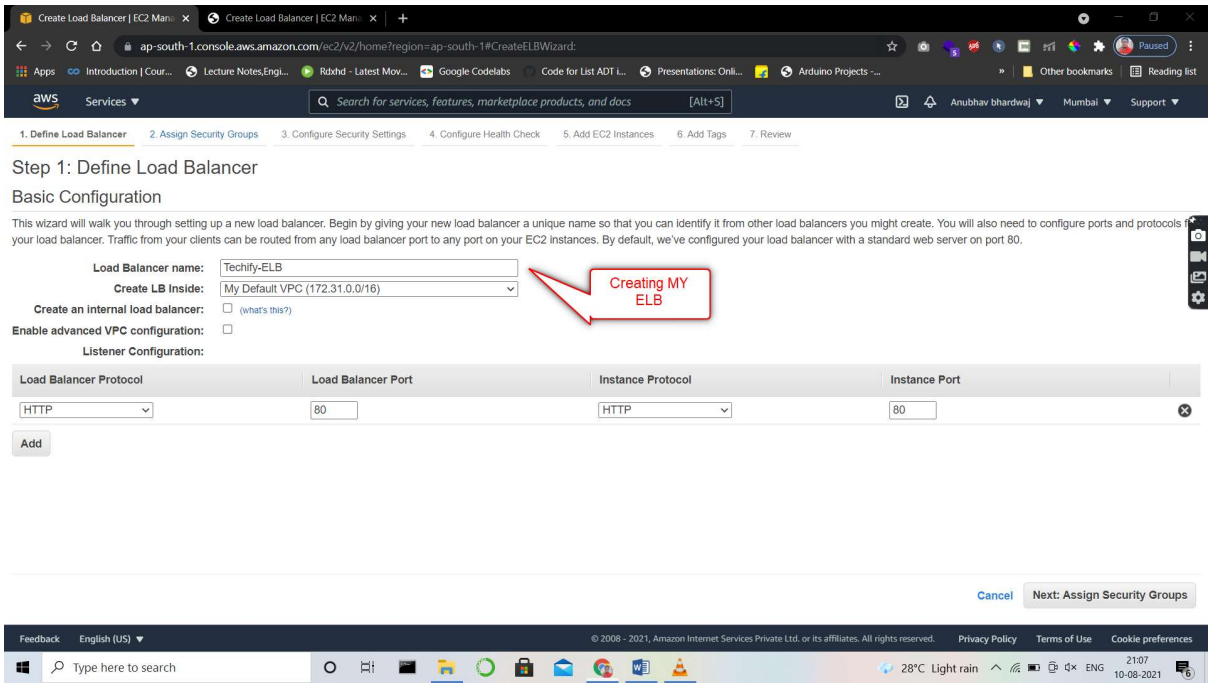
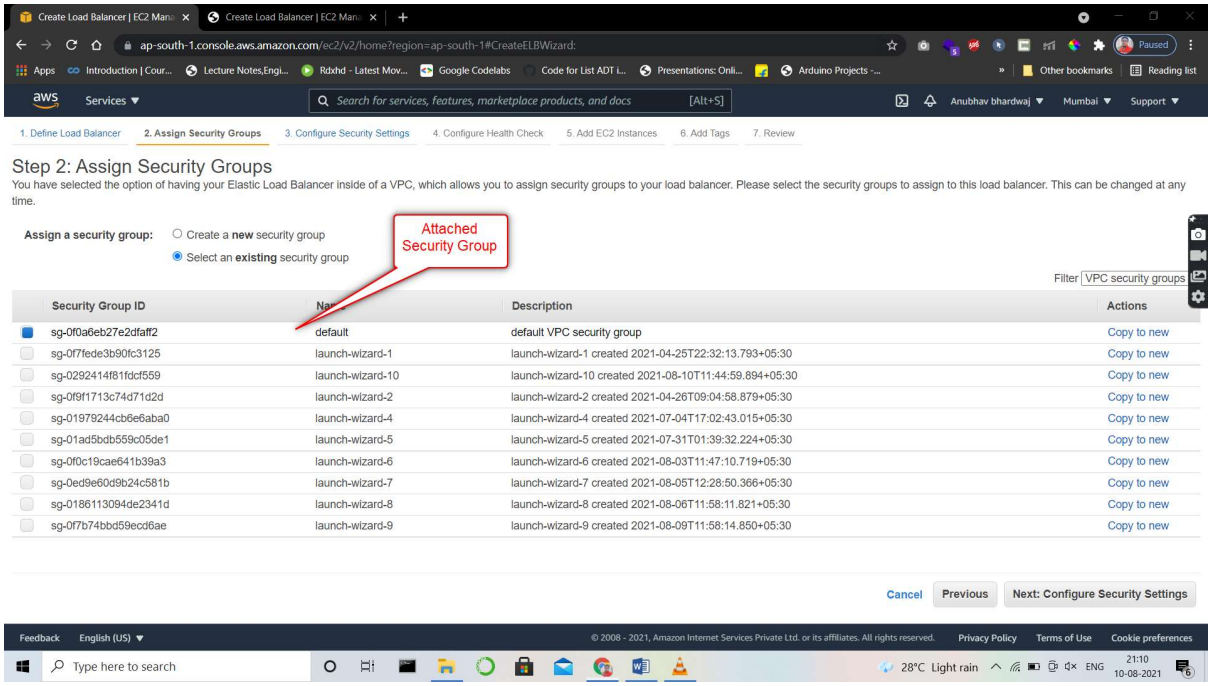
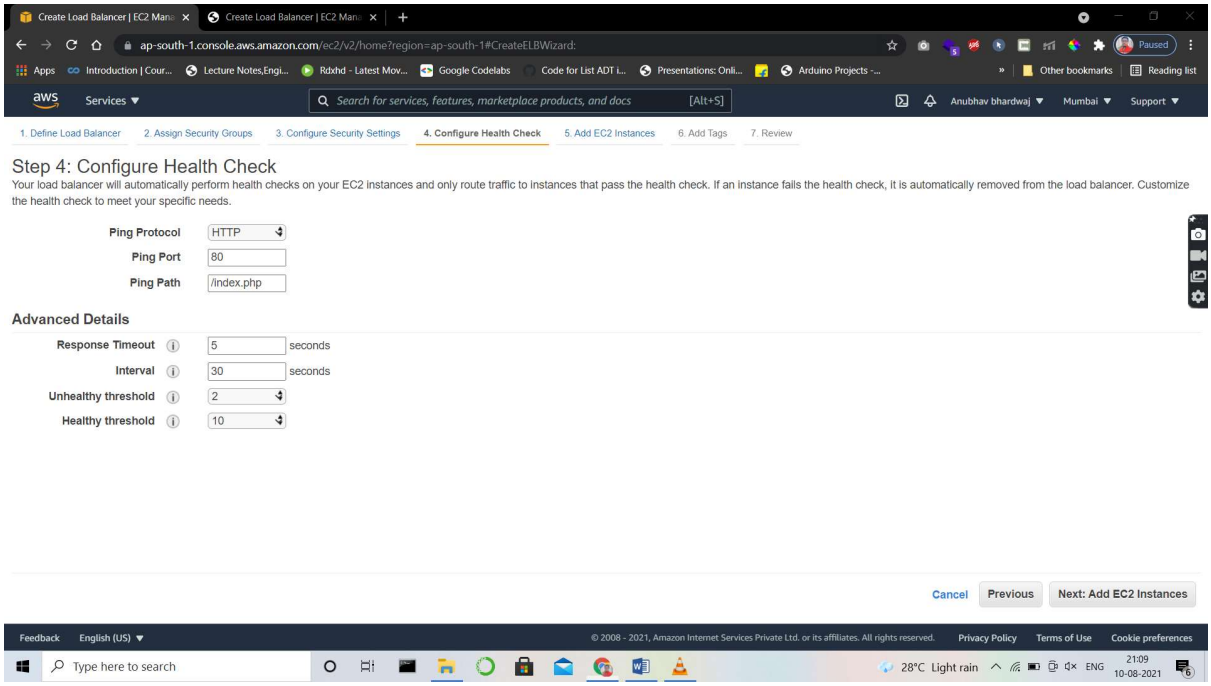
2.Setup autoscaling infrastructure with ELB and scale up / down on scheduled time as well on CPU > 5%






Create Load Balancer | EC2 Mana
Create Load Balancer | EC2 Mana
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#CreateELBWizard:
Paused
Apps
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Support
1. Define Load Balancer
2. Assign Security Groups
3. Configure Security Settings
4. Configure Health Check
5. Add EC2 Instances
6. Add Tags
7. Review
Step 4: Configure Health Check
Your load balancer will automatically perform health checks on your EC2 instances and only route traffic to instances that pass the health check. If an instance fails the health check, it is automatically removed from the load balancer. Customize the health check to meet your specific needs.
Ping Protocol
HTTP
Ping Port
80
Ping Path
/index.php
Advanced Details
Response Timeout
5
seconds
Interval
30
seconds
Unhealthy threshold
2
Healthy threshold
10
Cancel
Previous
Next: Add EC2 Instances
Feedback
English (US)
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ENG
21:09
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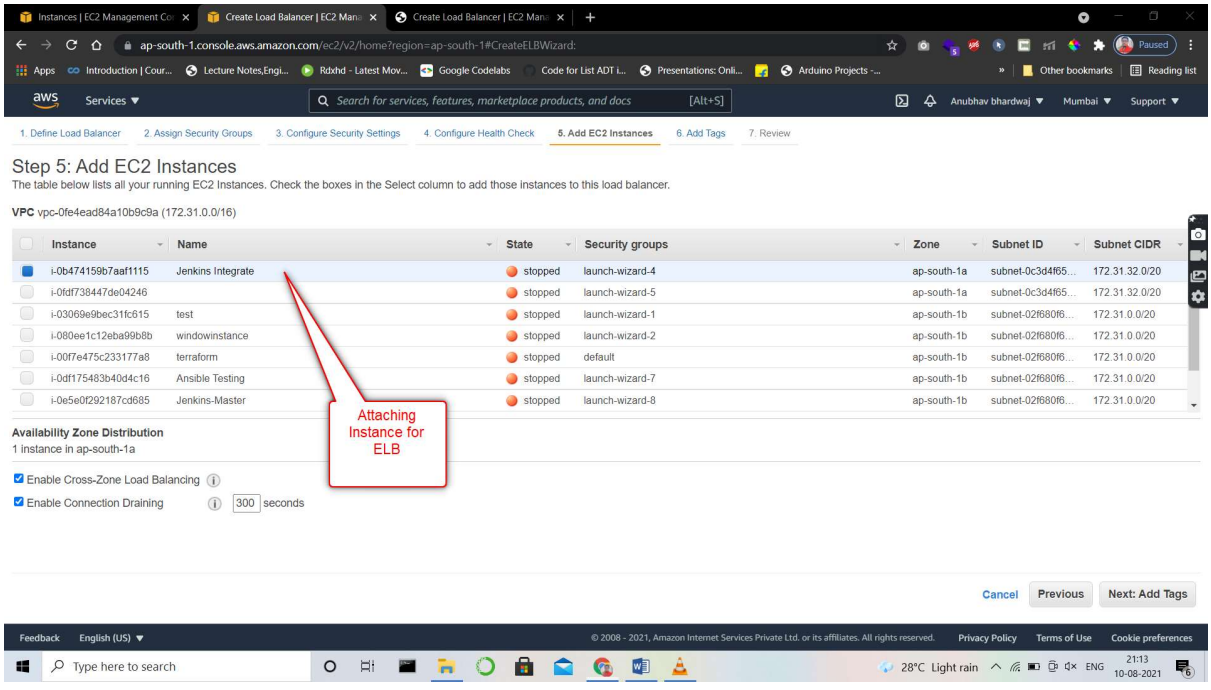
Instances | EC2 Management Co
Create Load Balancer | EC2 Mana
Create Load Balancer | EC2 Mana
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#CreateELBWizard:
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Apps
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Support
1. Define Load Balancer
2. Assign Security Groups
3. Configure Security Settings
4. Configure Health Check
5. Add EC2 Instances
6. Add Tags
7. Review
Step 5: Add EC2 Instances
The table below lists all your running EC2 Instances. Check the boxes in the Select column to add those instances to this load balancer.
VPC vpc-0fe4ead84a10b9c9a (172.31.0.0/16)
Instance
Name
State
Security groups
Zone
Subnet ID
Subnet CIDR
i-0b474159b7aaf1115
Jenkins Integrate
stopped
launch-wizard-4
ap-south-1a
subnet-0c3d4f65...
172.31.32.0/20
i-0fdf738447de04246
stopped
launch-wizard-5
ap-south-1a
subnet-0c3d4f65...
172.31.32.0/20
i-03069e9bec31fc615
test
stopped
launch-wizard-1
ap-south-1b
subnet-02f680f6...
172.31.0.0/20
i-080ee1c12eba99b8b
windowinstance
stopped
launch-wizard-2
ap-south-1b
subnet-02f680f6...
172.31.0.0/20
i-00f7e475c233177a8
terraform
stopped
default
ap-south-1b
subnet-02f680f6...
172.31.0.0/20
i-0df175483b40d4c16
Ansible Testing
stopped
launch-wizard-7
ap-south-1b
subnet-02f680f6...
172.31.0.0/20
i-0e5e0f292187cd685
Jenkins-Master
stopped
launch-wizard-8
ap-south-1b
subnet-02f680f6...
172.31.0.0/20
Attaching Instance for ELB
Availability Zone Distribution
1 instance in ap-south-1a
Enable Cross-Zone Load Balancing
Enable Connection Draining
300
seconds
Cancel
Previous
Next: Add Tags
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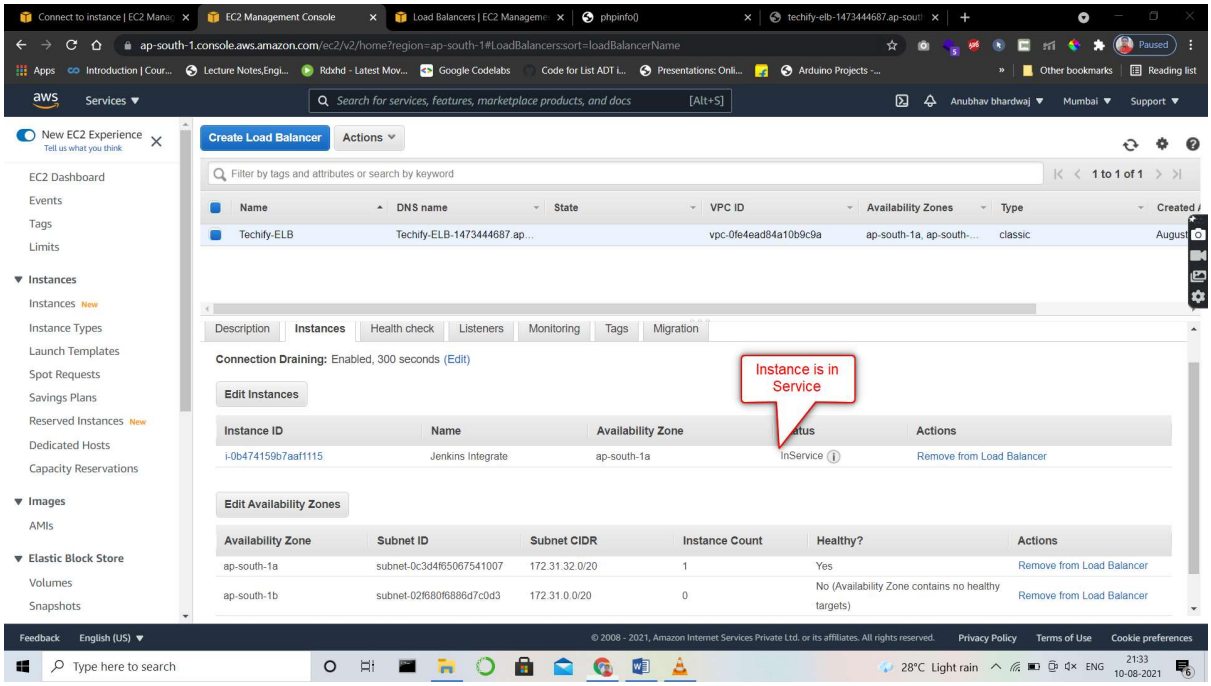
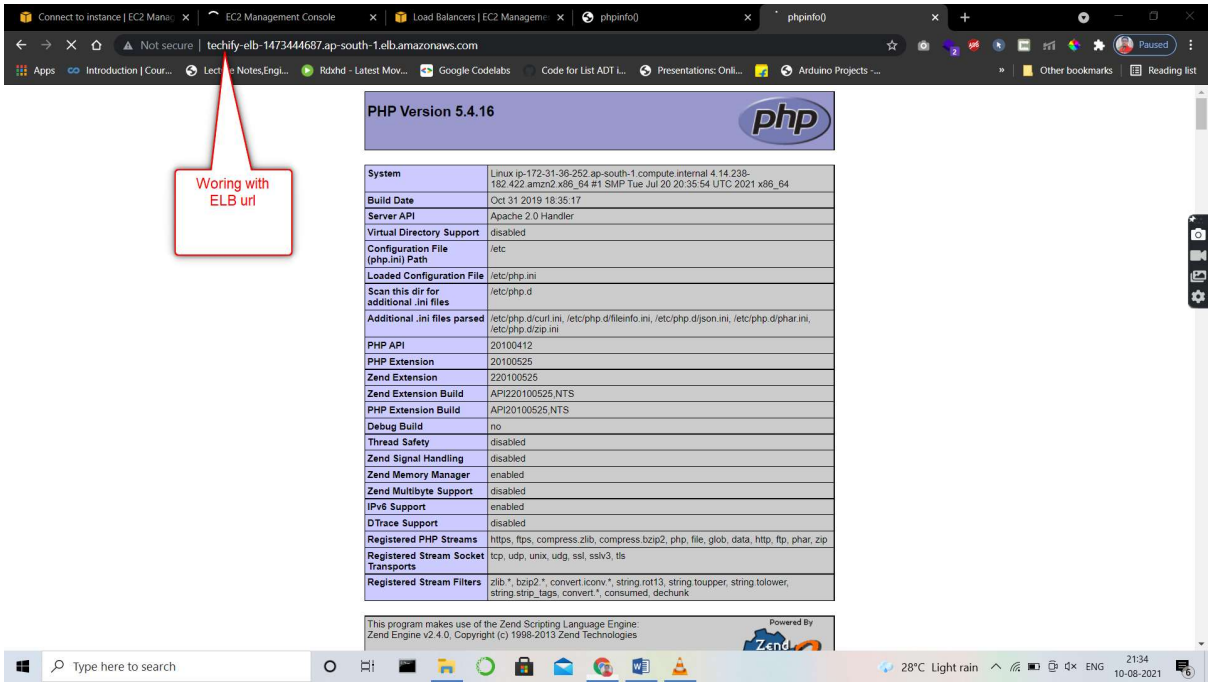
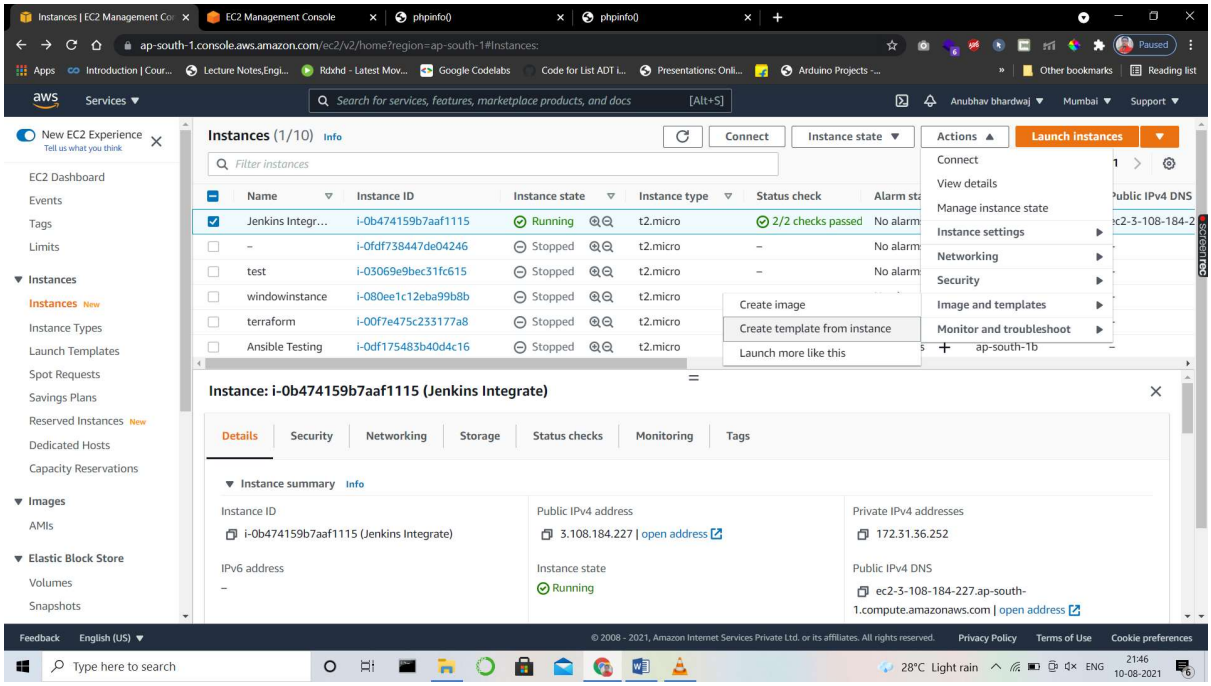

Instance is in Service


Woring with ELB url
PHP Version 5.4.16


Instances | EC2 Management Co
EC2 Management Console
phpinfo()
phpinfo()
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:
Paused
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Tell us what you think
EC2 Dashboard
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Instances (1/10) Info
Connect
Instance state
Actions
Launch instances
Filter instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Public IPv4 DNS
Jenkins Integr...
i-0b474159b7aaf1115
Running
t2.micro
2/2 checks passed
No alarms
ec2-3-108-184-2
i-0fdf738447de04246
Stopped
t2.micro
No alarms
test
i-03069e9bec31fc615
Stopped
t2.micro
No alarms
windowinstance
i-080ee1c12eba99b8b
Stopped
t2.micro
terraform
i-00f7e475c233177a8
Stopped
t2.micro
Ansible Testing
i-0df175483b40d4c16
Stopped
t2.micro
ap-south-1b
Connect
View details
Manage instance state
Instance settings
Networking
Security
Image and templates
Monitor and troubleshoot
Create image
Create template from instance
Launch more like this
Instance: i-0b474159b7aaf1115 (Jenkins Integrate)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0b474159b7aaf1115 (Jenkins Integrate)
Public IPv4 address
3.108.184.227 | open address
Private IPv4 addresses
172.31.36.252
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-3-108-184-227.ap-south-1.compute.amazonaws.com | open address
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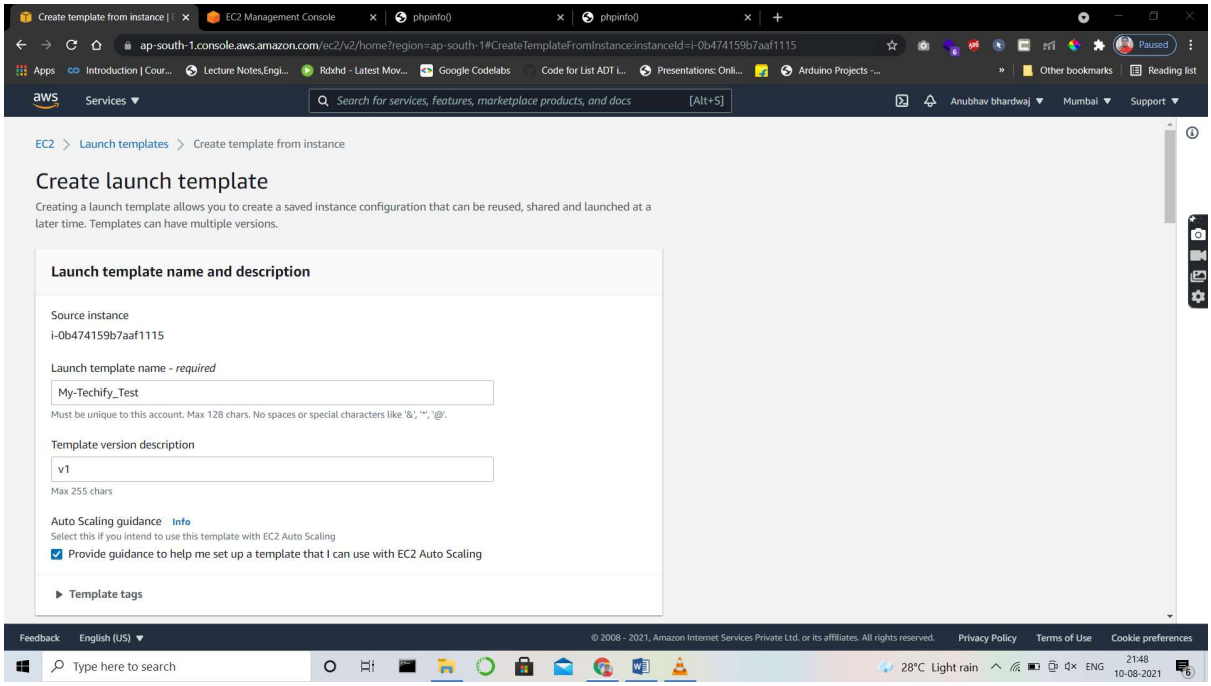
Create template from instance | I
EC2 Management Console
phpinfo()
phpinfo()
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#CreateTemplateFromInstance:instanceId=i-0b474159b7aaf1115
Paused
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Support
EC2
Launch templates
Create template from instance
Create launch template
Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.
Launch template name and description
Source instance
i-0b474159b7aaf1115
Launch template name - required
My-Techify_Test
Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.
Template version description
v1
Max 255 chars
Auto Scaling guidance Info
Select this if you intend to use this template with EC2 Auto Scaling
Provide guidance to help me set up a template that I can use with EC2 Auto Scaling
Template tags
Feedback
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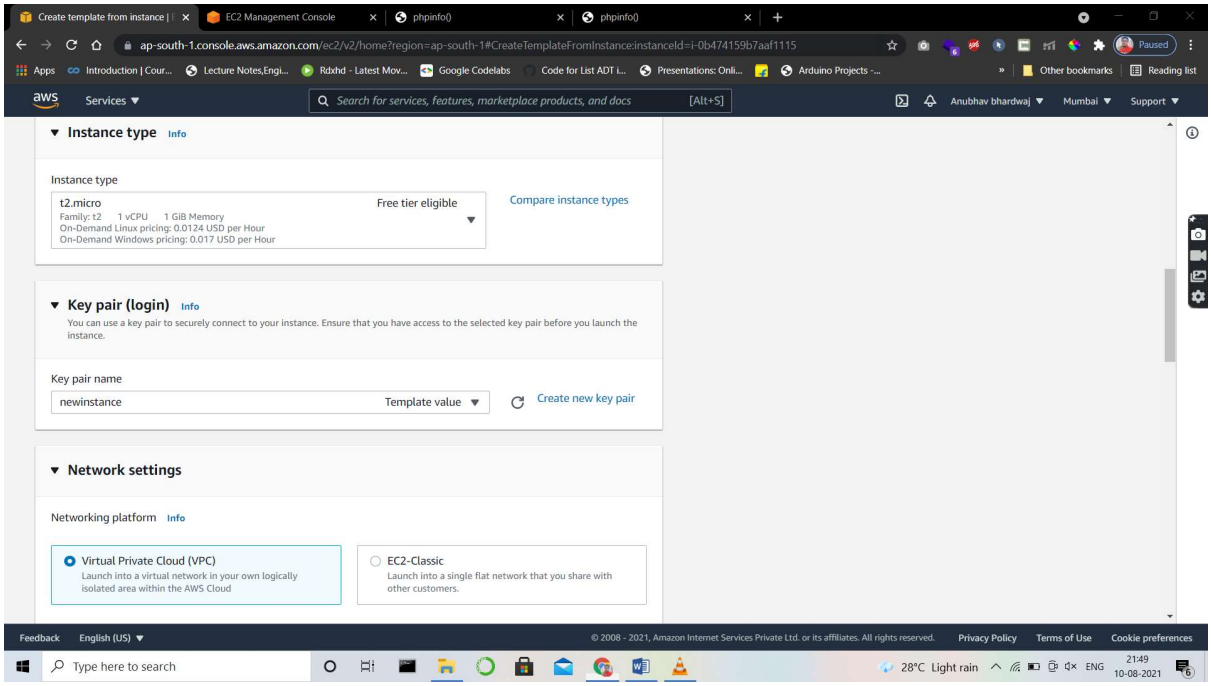
Create template from instance
EC2 Management Console
phpinfo()
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#CreateTemplateFromInstance:instanceId=i-0b474159b7aaf1115
Services
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Support
Instance type Info
Instance type
t2.micro
Free tier eligible
Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0124 USD per Hour
On-Demand Windows pricing: 0.017 USD per Hour
Compare instance types
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name
newinstance
Template value
Create new key pair
Network settings
Networking platform Info
Virtual Private Cloud (VPC)
Launch into a virtual network in your own logically isolated area within the AWS Cloud
EC2-Classic
Launch into a single flat network that you share with other customers.
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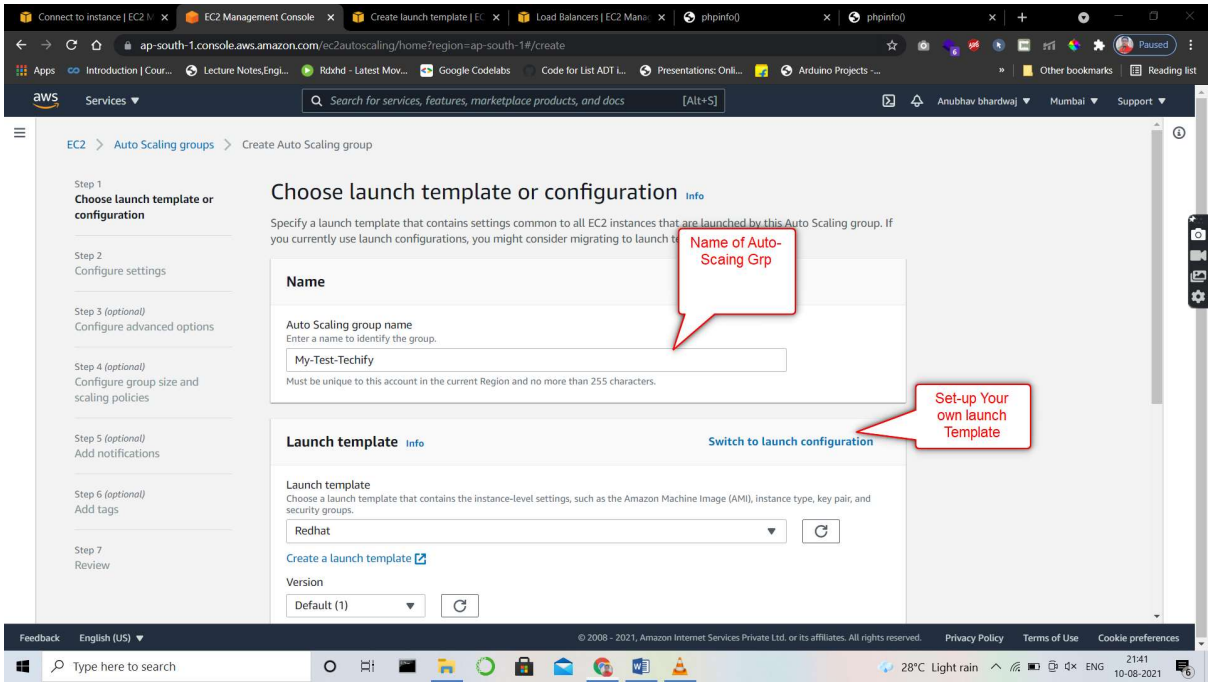
Connect to instance | EC2
EC2 Management Console
Create launch template | EC
Load Balancers | EC2 Mana
phpinfo()
ap-south-1.console.aws.amazon.com/ec2autoscaling/home?region=ap-south-1#/create
Services
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Support
EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1 Choose launch template or configuration
Step 2 Configure settings
Step 3 (optional) Configure advanced options
Step 4 (optional) Configure group size and scaling policies
Step 5 (optional) Add notifications
Step 6 (optional) Add tags
Step 7 Review
Choose launch template or configuration Info
Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch t
Name of Auto-Scaing Grp
Name
Auto Scaling group name
Enter a name to identify the group.
My-Test-Techify
Must be unique to this account in the current Region and no more than 255 characters.
Launch template Info
Switch to launch configuration
Set-up Your own launch Template
Launch template
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.
Redhat
Create a launch template
Version
Default (1)
Feedback
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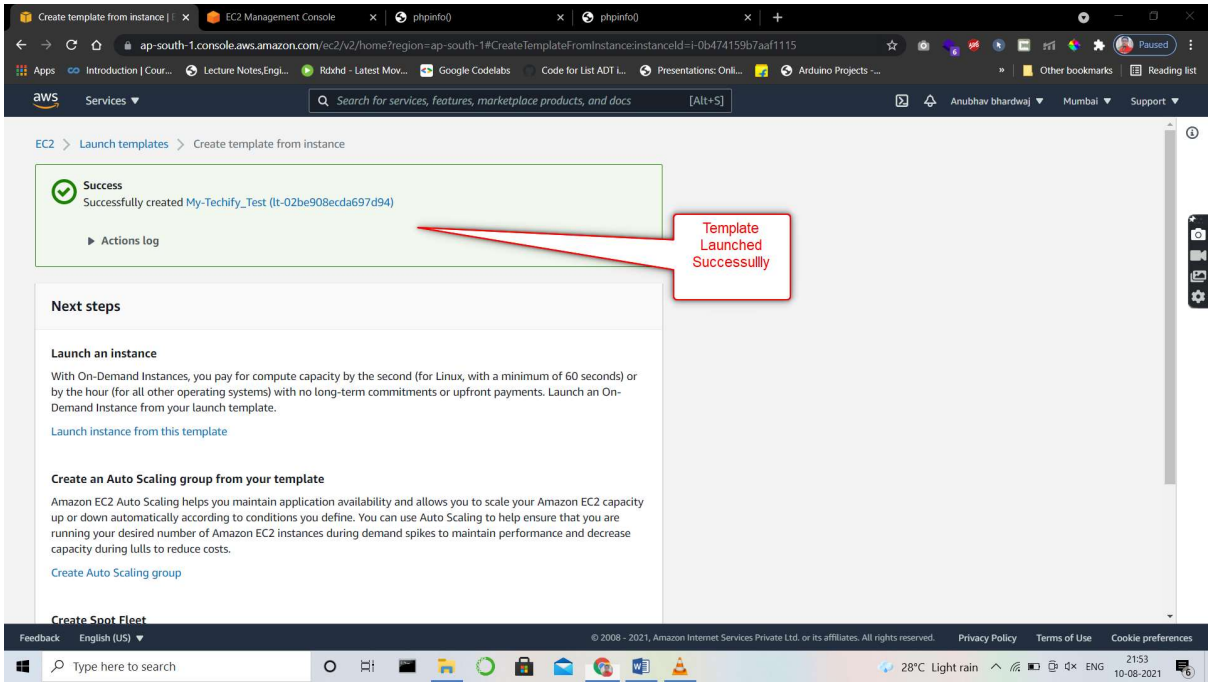
Create template from instance
EC2 Management Console
phpinfo()
phpinfo()
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#CreateTemplateFromInstance:instanceId=i-0b474159b7aaf1115
Services
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Support
EC2 > Launch templates > Create template from instance
Success
Successfully created My-Techify_Test (lt-02be908ecda697d94)
Actions log
Template Launched Successullly
Next steps
Launch an instance
With On-Demand Instances, you pay for compute capacity by the second (for Linux, with a minimum of 60 seconds) or by the hour (for all other operating systems) with no long-term commitments or upfront payments. Launch an On-Demand Instance from your launch template.
Launch instance from this template
Create an Auto Scaling group from your template
Amazon EC2 Auto Scaling helps you maintain application availability and allows you to scale your Amazon EC2 capacity up or down automatically according to conditions you define. You can use Auto Scaling to help ensure that you are running your desired number of Amazon EC2 instances during demand spikes to maintain performance and decrease capacity during lulls to reduce costs.
Create Auto Scaling group
Create Spot Fleet
Feedback
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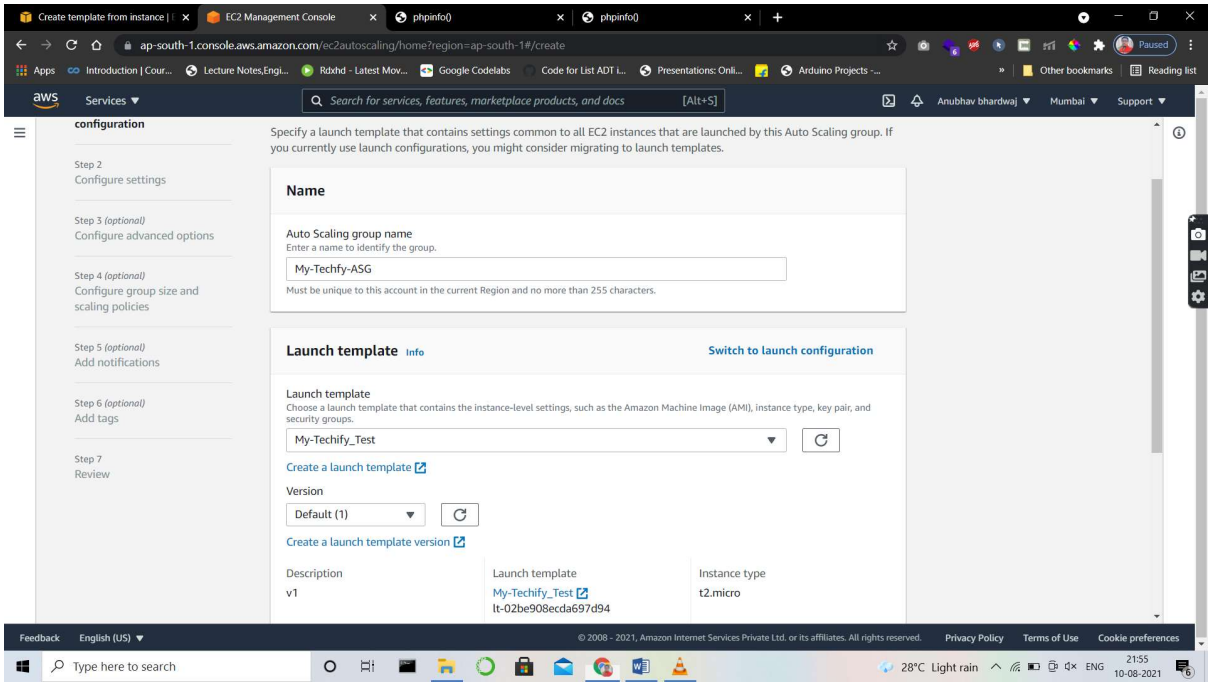
Create template from instance
EC2 Management Console
phpinfo()
phpinfo()
ap-south-1.console.aws.amazon.com/ec2autoscaling/home?region=ap-south-1#/create
Services
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Support
configuration
Step 2
Configure settings
Step 3 (optional)
Configure advanced options
Step 4 (optional)
Configure group size and scaling policies
Step 5 (optional)
Add notifications
Step 6 (optional)
Add tags
Step 7
Review
Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch templates.
Name
Auto Scaling group name
Enter a name to identify the group.
My-Techfy-ASG
Must be unique to this account in the current Region and no more than 255 characters.
Launch template Info
Switch to launch configuration
Launch template
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.
My-Techify_Test
Create a launch template
Version
Default (1)
Create a launch template version
Description
v1
Launch template
My-Techify_Test
lt-02be908ecda697d94
Instance type
t2.micro
Feedback
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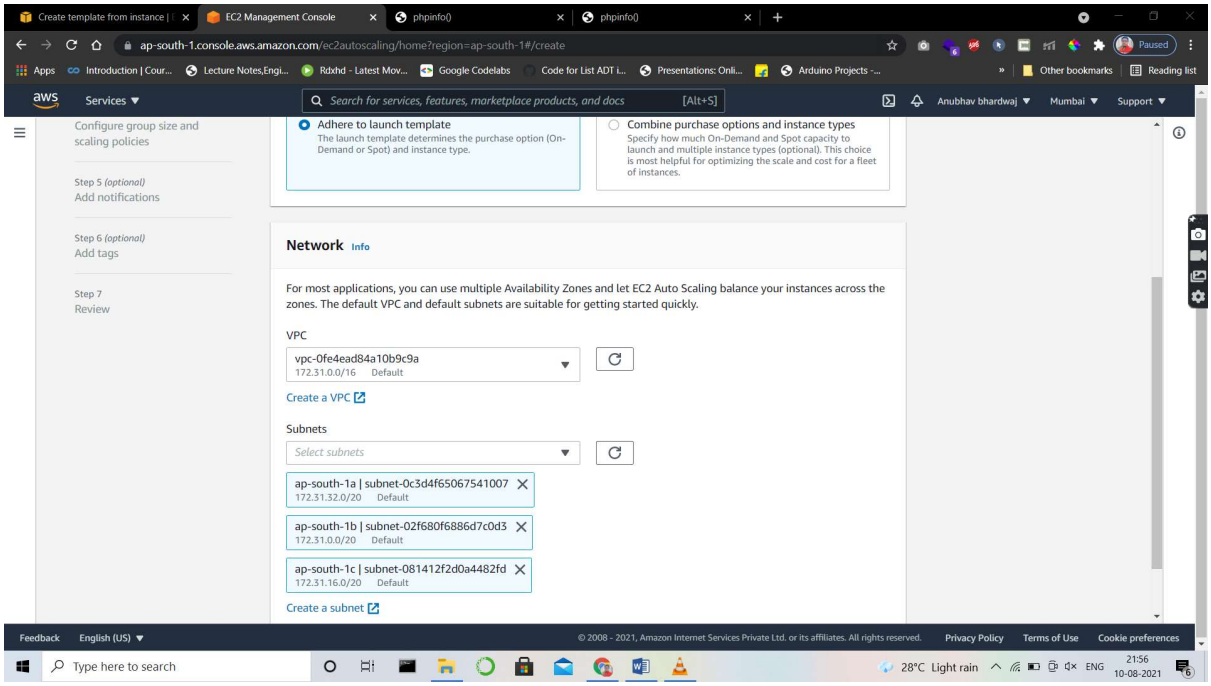
Create template from instance
EC2 Management Console
phpinfo()
ap-south-1.console.aws.amazon.com/ec2autoscaling/home?region=ap-south-1#/create
Services
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Support
Configure group size and scaling policies
Step 5 (optional) Add notifications
Step 6 (optional) Add tags
Step 7 Review
Adhere to launch template
The launch template determines the purchase option (On-Demand or Spot) and instance type.
Combine purchase options and instance types
Specify how much On-Demand and Spot capacity to launch and multiple instance types (optional). This choice is most helpful for optimizing the scale and cost for a fleet of instances.
Network Info
For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.
VPC
vpc-0fe4ead84a10b9c9a
172.31.0.0/16 Default
Create a VPC
Subnets
Select subnets
ap-south-1a | subnet-0c3d4f65067541007
172.31.32.0/20 Default
ap-south-1b | subnet-02f680f6886d7c0d3
172.31.0.0/20 Default
ap-south-1c | subnet-081412f2d0a4482fd
172.31.16.0/20 Default
Create a subnet
Feedback
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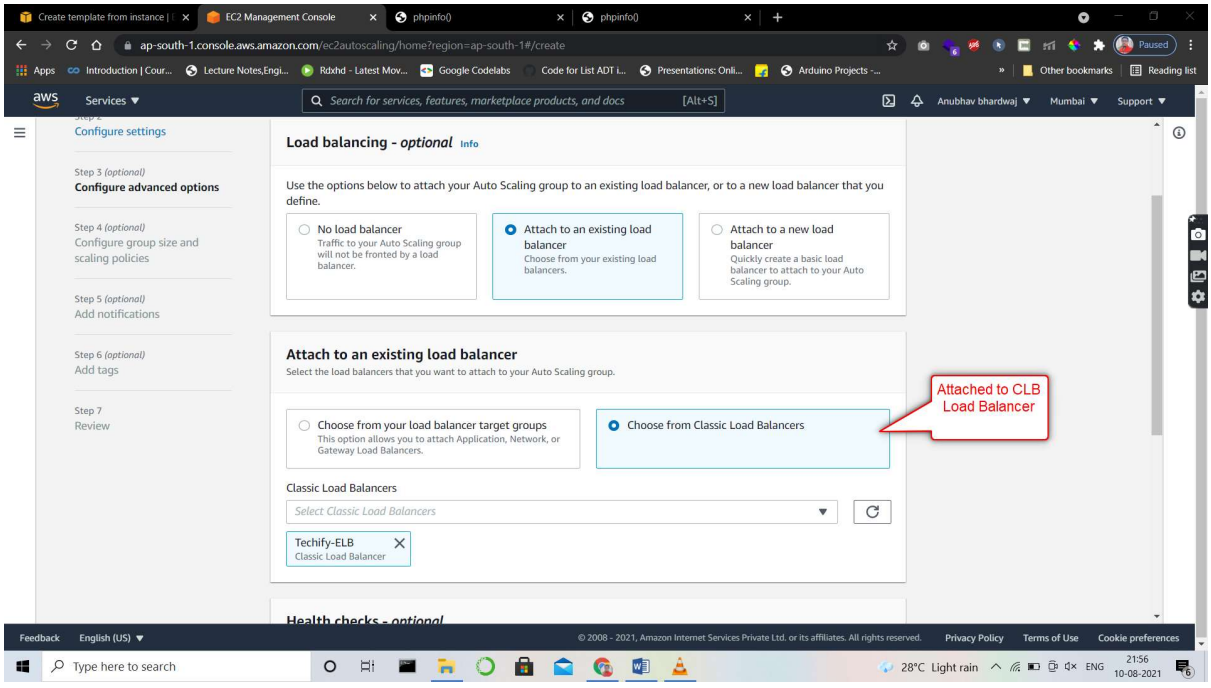
Create template from instance
EC2 Management Console
phpinfo()
ap-south-1.console.aws.amazon.com/ec2autoscaling/home?region=ap-south-1#/create
Services
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Support
Configure settings
Step 3 (optional) Configure advanced options
Step 4 (optional) Configure group size and scaling policies
Step 5 (optional) Add notifications
Step 6 (optional) Add tags
Step 7 Review
Load balancing - optional Info
Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.
No load balancer
Traffic to your Auto Scaling group will not be fronted by a load balancer.
Attach to an existing load balancer
Choose from your existing load balancers.
Attach to a new load balancer
Quickly create a basic load balancer to attach to your Auto Scaling group.
Attach to an existing load balancer
Select the load balancers that you want to attach to your Auto Scaling group.
Attached to CLB Load Balancer
Choose from your load balancer target groups
This option allows you to attach Application, Network, or Gateway Load Balancers.
Choose from Classic Load Balancers
Classic Load Balancers
Select Classic Load Balancers
Techify-ELB
Classic Load Balancer
Health checks - optional
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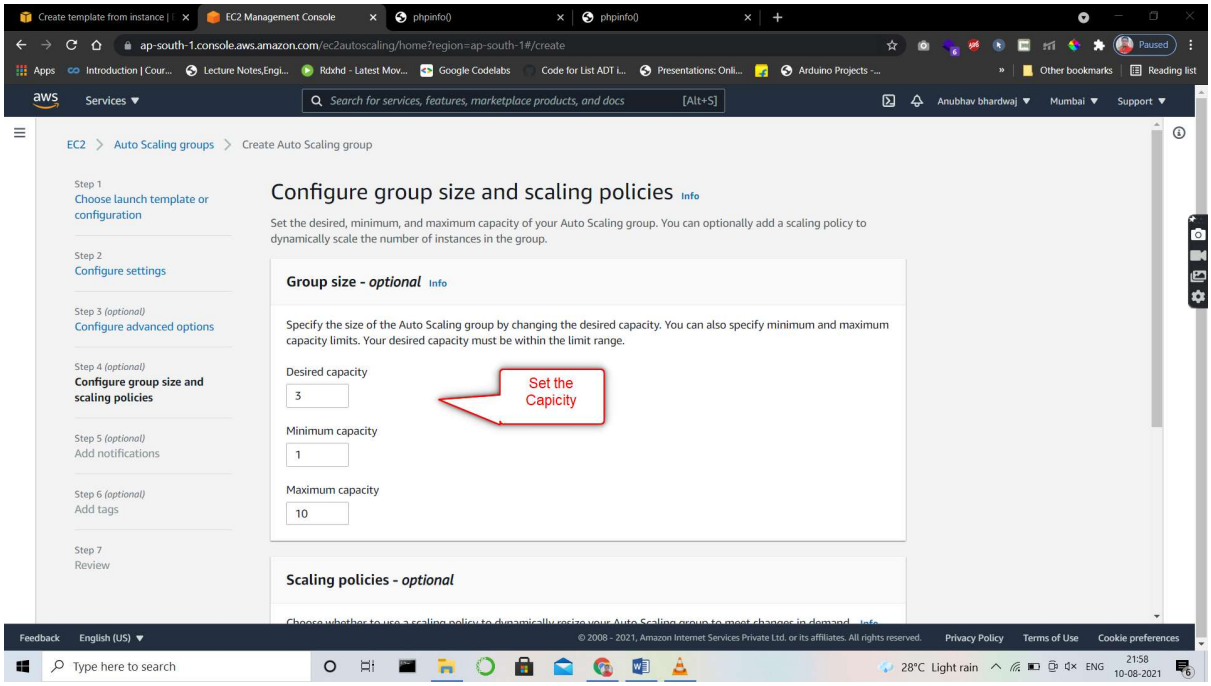
Create template from instance
EC2 Management Console
phpinfo()
phpinfo()
ap-south-1.console.aws.amazon.com/ec2autoscaling/home?region=ap-south-1#/create
Paused
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Support
EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1
Choose launch template or configuration
Step 2
Configure settings
Step 3 (optional)
Configure advanced options
Step 4 (optional)
Configure group size and scaling policies
Step 5 (optional)
Add notifications
Step 6 (optional)
Add tags
Step 7
Review
Configure group size and scaling policies Info
Set the desired, minimum, and maximum capacity of your Auto Scaling group. You can optionally add a scaling policy to dynamically scale the number of instances in the group.
Group size - optional Info
Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.
Desired capacity
3
Set the Capicity
Minimum capacity
1
Maximum capacity
10
Scaling policies - optional
Feedback
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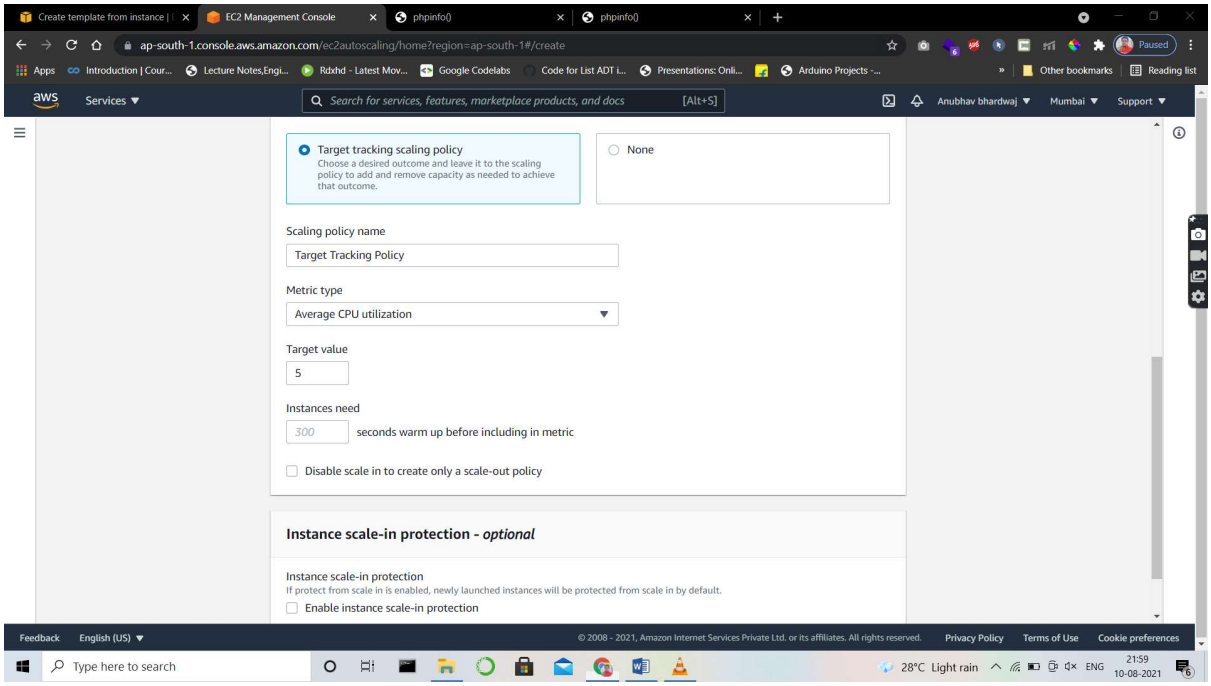
Create template from instance
EC2 Management Console
phpinfo()
phpinfo()
ap-south-1.console.aws.amazon.com/ec2autoscaling/home?region=ap-south-1#/create
Paused
Apps
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Reading list
aws
Services
Search for services, features, marketplace products, and docs [Alt+S]
Anubhav bhardwaj
Mumbai
Support
Target tracking scaling policy
Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.
None
Scaling policy name
Target Tracking Policy
Metric type
Average CPU utilization
Target value
5
Instances need
300
seconds warm up before including in metric
Disable scale in to create only a scale-out policy
Instance scale-in protection - optional
Instance scale-in protection
If protect from scale in is enabled, newly launched instances will be protected from scale in by default.
Enable instance scale-in protection
Feedback
English (US)
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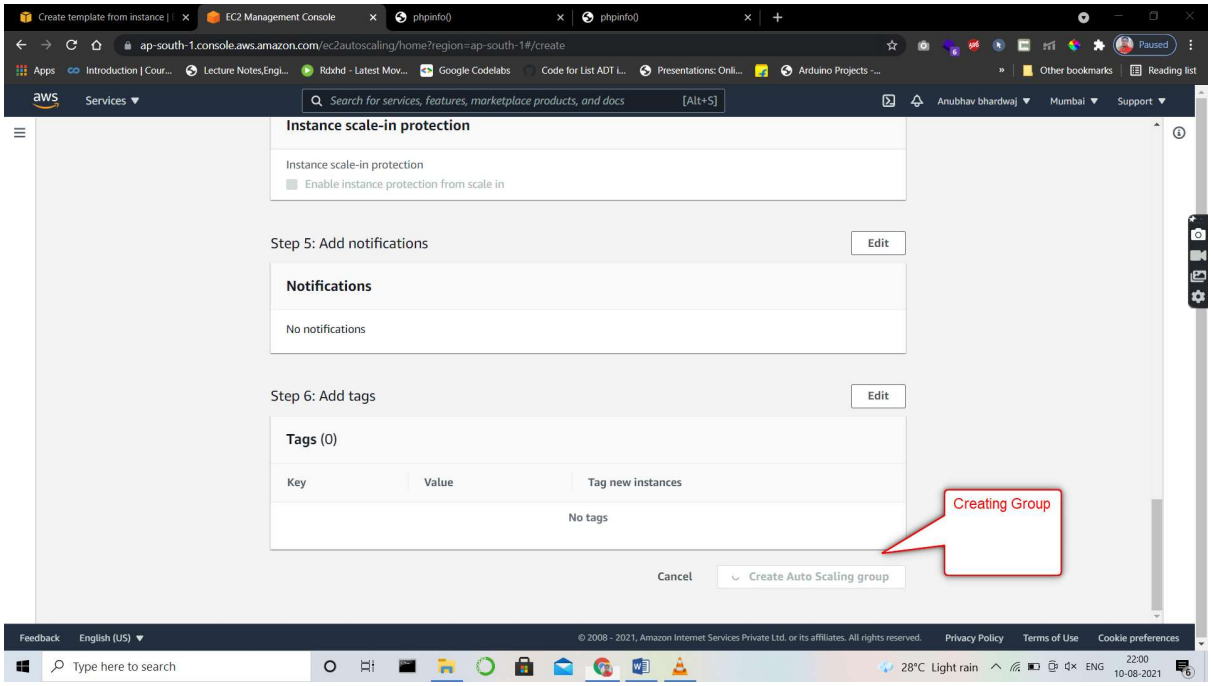
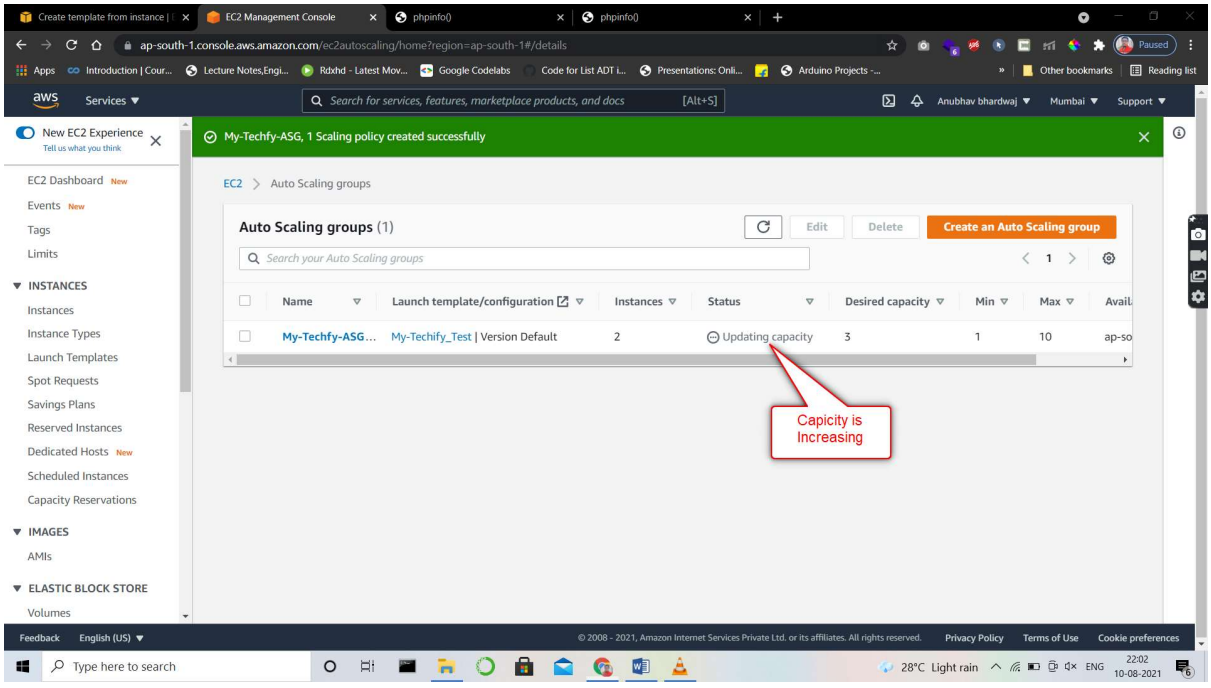
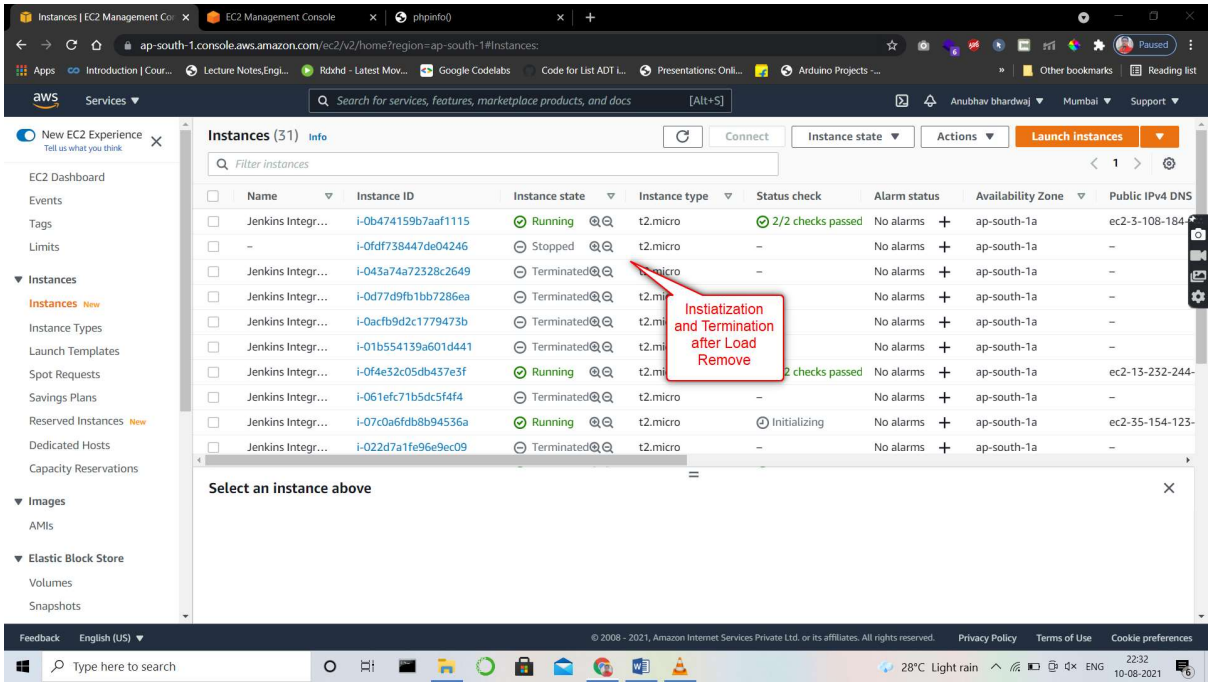
28°C Light rain
ENG
21:59
10-08-2021


Instance scale-in protection
Instance scale-in protection
Enable instance protection from scale in
Step 5: Add notifications
Edit
Notifications
No notifications
Step 6: Add tags
Edit
Tags (0)
Key
Value
Tag new instances
No tags
Creating Group
Cancel
Create Auto Scaling group


My-Techfy-ASG, 1 Scaling policy created successfully
EC2 > Auto Scaling groups
Auto Scaling groups (1)
Edit
Delete
Create an Auto Scaling group
Search your Auto Scaling groups
Name
Launch template/configuration
Instances
Status
Desired capacity
Min
Max
My-Techfy-ASG...
My-Techify_Test | Version Default
2
Updating capacity
3
1
10
Capicity is Increasing


Instiatization and Termination after Load Remove