

Establish A Connection Without SSH

A) Create a role with SSM Policy:

1. Login to your aws console and go to IAM and click on create role. Select EC2 service that will use this role.
2. Attach AmazonSSMFullAccess policy to this role and create the role.
3. Give a name to your role and create the role
4. Now we have successfully created the ssm role. Now we need to attach this role to every ec2 instance which you are going to launch.

The screenshot displays the AWS IAM console interface. The left-hand navigation pane is open, showing the 'Identity and Access Management (IAM)' section with options like Dashboard, Access management, Access reports, and Service control policies. The main content area is titled 'SSMROLE' and indicates it 'Allows EC2 instances to call AWS services on your behalf'. A 'Summary' section provides key details: Creation date (July 21, 2022, 12:53 UTC+05:30), ARN (arn:aws:iam::211006100646:role/SSMROLE), Instance profile ARN (arn:aws:iam::211006100646:instance-profile/SSMROLE), Last activity (15 minutes ago), and Maximum session duration (1 hour). Below this, the 'Permissions' tab is active, showing 'Permissions policies (1)' with a table listing the 'AmazonSSMFullAccess' policy, which is AWS managed and provides full access to Amazon SSM. The bottom of the image shows the Windows taskbar with the time 13:48 on 21-07-2022.

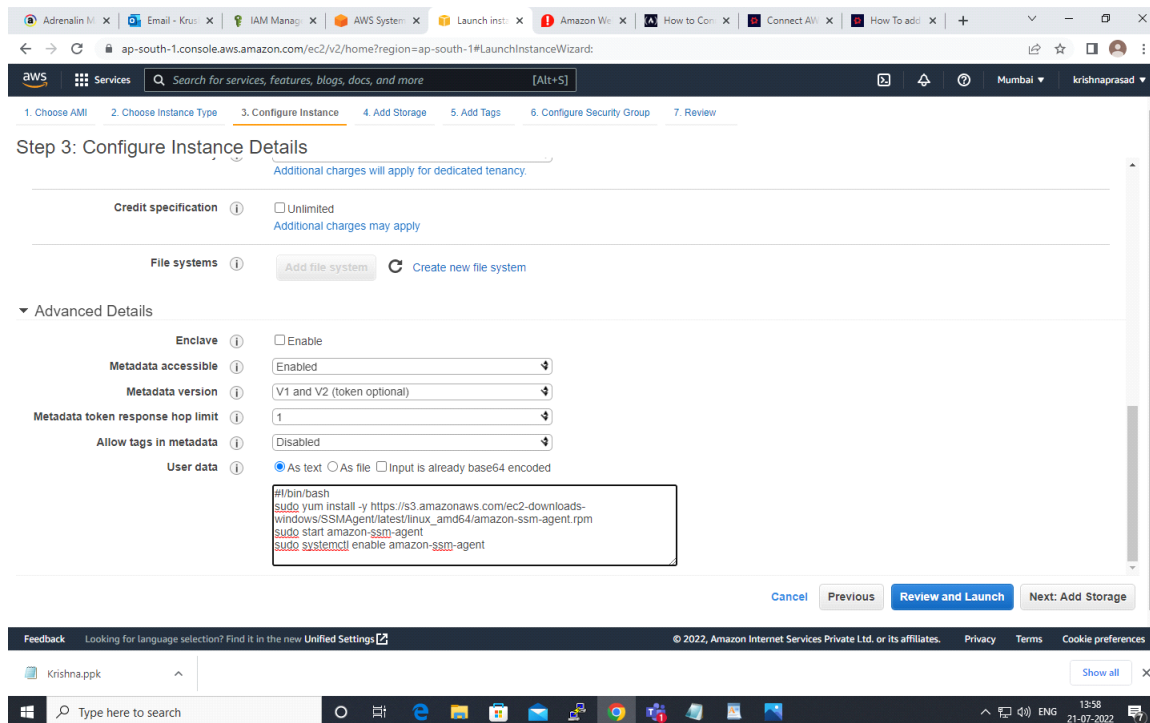
B) Add SSM role to Ec2 instance:

1. Launch ec2 instance and when you are launching ec2 instance attach ssm role which you created in previous steps and add below script in user data.

The screenshot displays the AWS Management Console interface for launching an EC2 instance. The browser address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard`. The console header includes the AWS logo, a search bar, and navigation links. The main content area is titled 'Step 3: Configure Instance Details' and contains several configuration options:

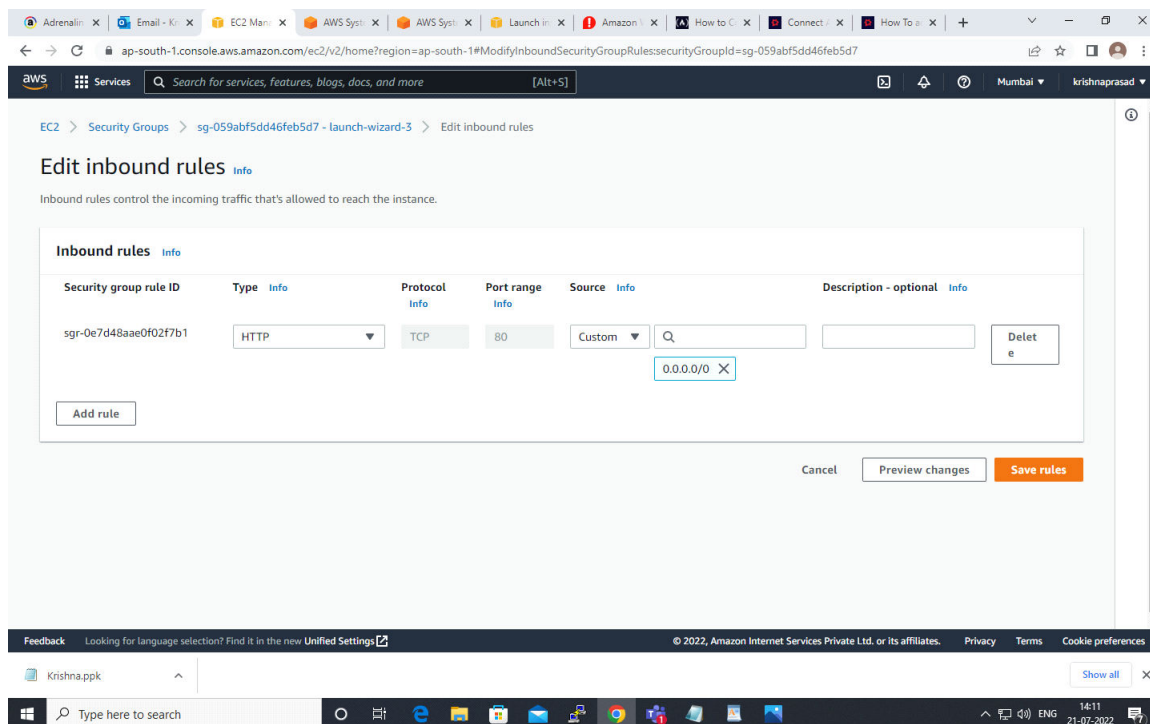
- Placement group:** ☐ Add instance to placement group
- Capacity Reservation:**
- Domain join directory:** [Create new directory](#)
- IAM role:** [Create new IAM role](#)
- Shutdown behavior:**
- Stop - Hibernate behavior:** ☐ Enable hibernation as an additional stop behavior
- Enable termination protection:** ☐ Protect against accidental termination
- Enable stop protection:** ☐ Protect against accidental stoppage
- Monitoring:** ☐ Enable CloudWatch detailed monitoring
[Additional charges apply.](#)
- Tenancy:**
[Additional charges will apply for dedicated tenancy.](#)
- Credit specification:** ☐ Unlimited
[Additional charges may apply](#)
- File systems:** [Add file systems](#) [Create file system](#)

At the bottom of the configuration section, there are buttons: [Cancel](#), [Previous](#), [Review and Launch](#), and [Next: Add Storage](#). The footer of the console shows the year 2022, copyright information, and links for Privacy, Terms, and Cookie preferences. The Windows taskbar at the bottom indicates the time is 13:58 on 21-07-2022.



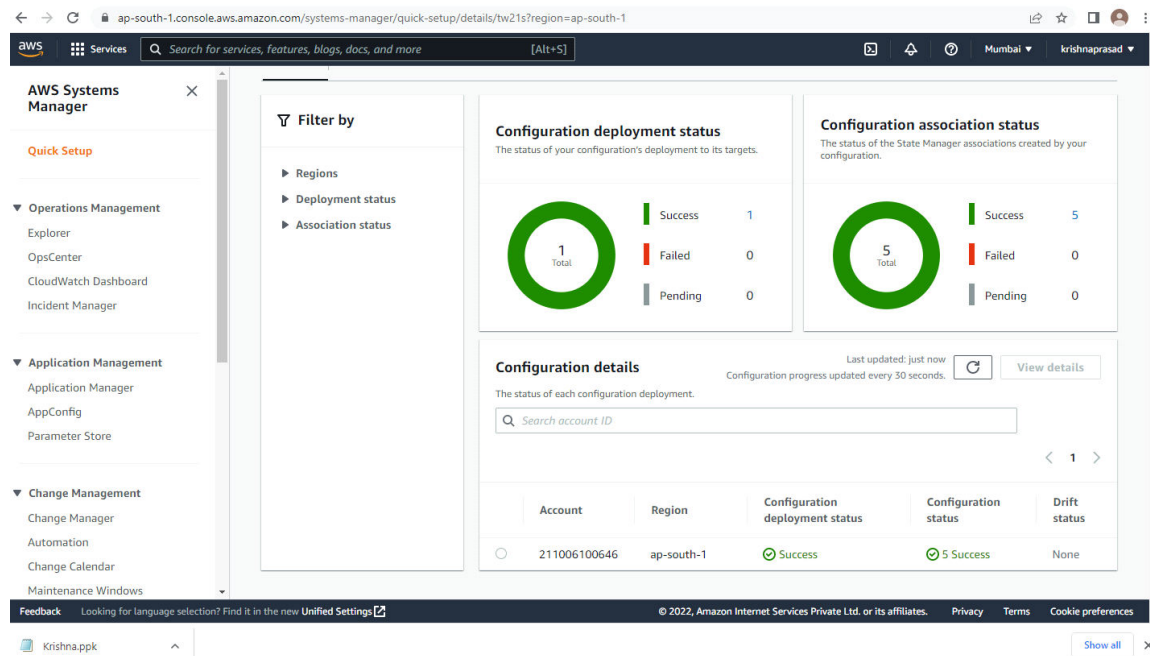
C) Change Security Port:

Change the security type and port range to different from SSH.



D) Add Ec2 Instance to AWS System Manager:

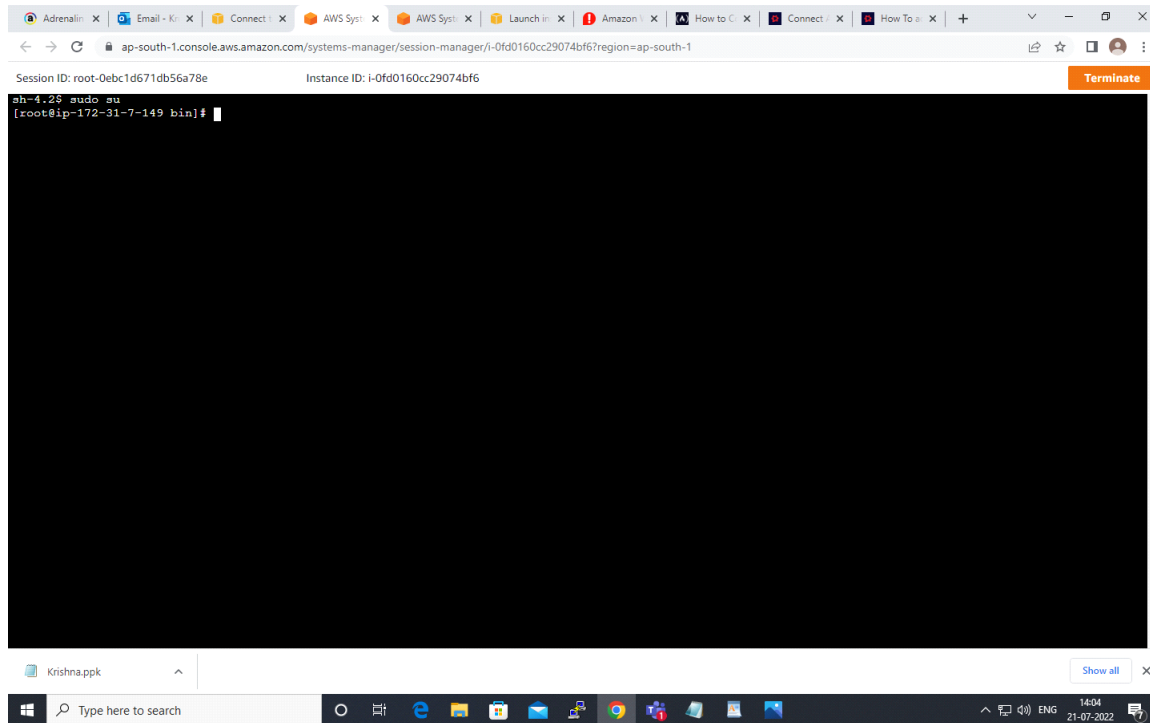
Now, add the Ec2 instance to AWS System Manager and wait for few seconds till all configuration deployment and status are successful.



E) Get Back to EC2:

Now, check the instance whether the instance is successfully established or not.

If the establishment is successful it shows as below:



Note: Establishing a connection without SSH is time taking.