

RoboSettings Template

```
{
  "runConfigurations": [
    {
      "id": "build-all",
      "name": "build-all",
      "type": "colcon build",
      "cfg": {
        "workingDir": "/simulation_ws",
        "cmdArgs": ""
      }
    },
    {
      "id": "bundle-all",
      "name": "bundle-all",
      "type": "colcon bundle",
      "cfg": {
        "workingDir": "/simulation_ws",
        "cmdArgs": ""
      }
    },
    {
      "id": "training-grounds-no-rl",
      "name": "training-grounds-no-rl",
      "type": "simulation",
      "cfg": {
        "simulation": {
          "maxJobDurationInSeconds": 300,
          "failureBehavior": "Continue",
          "iamRole": "arn:aws:iam::1000your act number000:role/YourRole",
          "outputLocation": "awsrobotmakerjpl",
          "tags": {}
        }
      },
      "simulationApp": {
        "name": "training-grounds-no-rl",
        "sourceBundleFile": "/simulation_ws/bundle/output.tar",
        "architecture": "X86_64",
        "s3Bucket": "awsrobotmakerjpl",
        "launchConfig": {
          "packageName": "training_grounds",
          "launchFile": "training_env_only.launch",
          "environmentVariables": {
            "MARKOV_PRESET_FILE": "training_grounds.py",
            "ROS_AWS_REGION": "your zone",
            "MODEL_S3_BUCKET": "awsrobotmakerjpl",
            "MODEL_S3_PREFIX": "training"
```

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    },
    "simulationSoftwareSuite": {
      "name": "Gazebo",
      "version": "9"
    },
    "renderingEngine": {
      "name": "OGRE",
      "version": "1.x"
    },
    "robotSoftwareSuite": {
      "name": "ROS",
      "version": "Melodic"
    }
  }
},
{
  "id": "mars-env-no-rl",
  "name": "mars-env-no-rl",
  "type": "simulation",
  "cfg": {
    "simulation": {
      "maxJobDurationInSeconds": 600,
      "failureBehavior": "Continue",
      "iamRole": "arn:aws:iam::1000your acct number000:role/YourRole",
      "outputLocation": "awsrobotmakerjpl",
      "tags": {}
    },
    "simulationApp": {
      "name": "mars-env-no-rl",
      "sourceBundleFile": "/simulation_ws/bundle/output.tar",
      "architecture": "X86_64",
      "s3Bucket": "awsrobotmakerjpl",
      "launchConfig": {
        "packageName": "mars",
        "launchFile": "mars_env_only.launch",
        "environmentVariables": {
          "MARKOV_PRESET_FILE": "mars_presets.py",
          "ROS_AWS_REGION": "your-region",
          "MODEL_S3_BUCKET": "awsrobotmakerjpl",
          "MODEL_S3_PREFIX": "mars"
        }
      }
    },
    "simulationSoftwareSuite": {
      "name": "Gazebo",
      "version": "9"
    }
  }
}

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    },
    "renderingEngine": {
      "name": "OGRE",
      "version": "1.x"
    },
    "robotSoftwareSuite": {
      "name": "ROS",
      "version": "Melodic"
    }
  }
},
{
  "id": "training-grounds-with-rl",
  "name": "training-grounds-with-rl",
  "type": "simulation",
  "cfg": {
    "simulation": {
      "maxJobDurationInSeconds": 600,
      "failureBehavior": "Continue",
      "iamRole": "arn:aws:iam::1000your act number000:role/YourRole",
      "outputLocation": "awsrobotmakerjpl",
      "vpcConfig": {
        "subnets": [
          "subnet-3587yoursubnet191b",
          "subnet-4323yoursubnet3243c"
        ],
        "securityGroups": [
          "sg-YourSecurityGroup"
        ],
        "assignPublicIp": true
      },
      "tags": {}
    },
    "simulationApp": {
      "name": "training-grounds-with-rl",
      "sourceBundleFile": "/simulation_ws/bundle/output.tar",
      "architecture": "X86_64",
      "s3Bucket": "awsrobotmakerjpl",
      "launchConfig": {
        "packageName": "training_grounds",
        "launchFile": "training_full_sim.launch",
        "environmentVariables": {
          "MARKOV_PRESET_FILE": "training_grounds.py",
          "MODEL_S3_BUCKET": "awsrobotmakerjpl",
          "MODEL_S3_PREFIX": "training",
          "ROS_AWS_REGION": "your-region"
        }
      }
    }
  }
}

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    },
    "simulationSoftwareSuite": {
      "name": "Gazebo",
      "version": "9"
    },
    "renderingEngine": {
      "name": "OGRE",
      "version": "1.x"
    },
    "robotSoftwareSuite": {
      "name": "ROS",
      "version": "Melodic"
    }
  }
},
{
  "id": "mars-env-with-rl",
  "name": "mars-env-with-rl",
  "type": "simulation",
  "cfg": {
    "simulation": {
      "maxJobDurationInSeconds": 1200,
      "failureBehavior": "Fail",
      "iamRole": "arn:aws:iam::1000your act number000:role/YourRole",
      "outputLocation": "awsrobotmakerjpl",
      "vpcConfig": {
        "subnets": [
          "subnet-3yoursubnetipb",
          "subnet-22yoursubnetbd217e"
        ],
        "securityGroups": [
          "sg-0dyoursecuritygroupnumber288"
        ],
        "assignPublicIp": true
      },
      "tags": {}
    },
    "simulationApp": {
      "name": "mars_env-with-rl",
      "sourceBundleFile": "/simulation_ws/bundle/output.tar",
      "architecture": "X86_64",
      "s3Bucket": "awsrobotmakerjpl",
      "launchConfig": {
        "packageName": "mars",
        "launchFile": "mars_full_sim.launch",

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    "environmentVariables": {
      "MARKOV_PRESET_FILE": "mars_presets.py",
      "MODEL_S3_BUCKET": "awsrobotmakerjpl",
      "MODEL_S3_PREFIX": "mars",
      "ROS_AWS_REGION": "YourZone"
    },
    },
    "simulationSoftwareSuite": {
      "name": "Gazebo",
      "version": "9"
    },
    },
    "renderingEngine": {
      "name": "OGRE",
      "version": "1.x"
    },
    },
    "robotSoftwareSuite": {
      "name": "ROS",
      "version": "Melodic"
    }
  }
},
{
  "id": "training-evaluation-sim",
  "name": "training-evaluation-sim",
  "type": "simulation",
  "cfg": {
    "simulation": {
      "maxJobDurationInSeconds": 1800,
      "failureBehavior": "Continue",
      "iamRole": "arn:aws:iam::1000your act number000:role/YourRole",
      "outputLocation": "awsrobotmakerjpl",
      "vpcConfig": {
        "subnets": [
          "subnet-34yoursubnetee",
          "subnet-22yoursubnetbff"
        ],
        "securityGroups": [
          "sg-0deYourSecurityGroup288"
        ],
        "assignPublicIp": true
      },
      "tags": {}
    },
    "simulationApp": {
      "name": "training-evaluation-sim",
      "sourceBundleFile": "/simulation_ws/bundle/output.tar",

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```

    "architecture": "X86_64",
    "s3Bucket": "awsrobotmakerjpl",
    "launchConfig": {
      "packageName": "training_grounds",
      "launchFile": "eval.launch",
      "environmentVariables": {
        "MARKOV_PRESET_FILE": "rover_evaluation.py",
        "MODEL_S3_BUCKET": "awsrobotmakerjpl",
        "MODEL_S3_PREFIX": "trainingeval",
        "ROS_AWS_REGION": "YourZone"
      }
    },
    "simulationSoftwareSuite": {
      "name": "Gazebo",
      "version": "9"
    },
    "renderingEngine": {
      "name": "OGRE",
      "version": "1.x"
    },
    "robotSoftwareSuite": {
      "name": "ROS",
      "version": "Melodic"
    }
  }
},
{
  "id": "build-and-bundle-only",
  "name": "build-and-bundle-only",
  "type": "workflow",
  "runCfgIds": [
    "build-all",
    "bundle-all"
  ]
},
{
  "id": "training-grounds-env-only",
  "name": "training-grounds-env-only",
  "type": "workflow",
  "runCfgIds": [
    "build-all",
    "bundle-all",
    "training-grounds-no-rl"
  ]
}

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    "id": "training-grounds-full-sim",
    "name": "training-grounds-full-sim",
    "type": "workflow",
    "runCfgIds": [
      "build-all",
      "bundle-all",
      "training-grounds-with-rl"
    ]
  },
  {
    "id": "training-grounds-eval",
    "name": "training-grounds-eval",
    "type": "workflow",
    "runCfgIds": [
      "build-all",
      "bundle-all",
      "training-evaluation-sim"
    ]
  },
  {
    "id": "mars-env-only",
    "name": "mars-env-only",
    "type": "workflow",
    "runCfgIds": [
      "build-all",
      "bundle-all",
      "mars-env-no-rl"
    ]
  },
  {
    "id": "mars-env-full-sim",
    "name": "mars-env-full-sim",
    "type": "workflow",
    "runCfgIds": [
      "build-all",
      "bundle-all",
      "mars-env-with-rl"
    ]
  }
]
}

```