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# **Amazon Mechanical Turk**

**Getting Started Guide**

**API Version 2011-10-01**



## **Amazon Mechanical Turk: Getting Started Guide**

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# Welcome

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This is the *Amazon Mechanical Turk Getting Started Guide*. This guide provides a conceptual overview of Amazon Mechanical Turk for developers who want to write scripts or software applications using the Amazon Mechanical Turk SDKs. The major sections of this guide are described in the following table. For information on using a graphical user interface to access Amazon Mechanical Turk functionality, go to the [Amazon Mechanical Turk Requester User Interface Guide](#).

Amazon Mechanical Turk is a web service that provides an on-demand, scalable, human workforce to complete jobs that humans can do better than computers, such as recognizing objects in photographs. For more information about this product, go to [Amazon Mechanical Turk](#).

## How Do I...?

How do I...?	Relevant Topics
Get a general product overview of Mechanical Turk	<a href="#">Introduction to Amazon Mechanical Turk (p. 3)</a>
Set up the accounts and tools needed to use Mechanical Turk	<a href="#">Setting Up Accounts and Tools (p. 6)</a>
Use the Mechanical Turk SDKs to write and publish a Human Intelligence Task (HIT)	<a href="#">Creating a HIT (p. 12)</a>
Learn more about implementing Mechanical Turk	<a href="#">Implementing Amazon Mechanical Turk (p. 28)</a>
Find answers to common questions about Mechanical Turk	<a href="#">Amazon Mechanical Turk Technical FAQ</a>
Learn more about programmatically interacting with Mechanical Turk	<a href="#">Amazon Mechanical Turk Developer Guide</a>
Find detailed information about Mechanical Turk operations	<a href="#">Amazon Mechanical Turk API Reference</a>

**Amazon Mechanical Turk Getting Started Guide**  
**How Do I...?**

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<b>How do I...?</b>	<b>Relevant Topics</b>
Find information about the latest release of Mechanical Turk	<a href="#">Amazon Mechanical Turk Release Notes</a>

# Introduction to Amazon Mechanical Turk

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## Topics

- [Overview of Amazon Mechanical Turk \(p. 3\)](#)
- [Key Amazon Mechanical Turk Concepts \(p. 4\)](#)
- [Overview of Examples \(p. 5\)](#)

This introduction to Amazon Mechanical Turk provides a high-level overview of this web service. After reading this section, you should understand the basics you need to work through the examples in this guide.

## Overview of Amazon Mechanical Turk

Amazon Mechanical Turk provides an on-demand, scalable, human workforce to complete jobs that humans can do better than computers. Amazon Mechanical Turk software formalizes job offers to the thousands of Workers willing to do piecemeal work at their convenience. The software also retrieves work performed and compiles it for you, the Requester, who pays the Workers for satisfactory work (only). Optional qualification tests enable you to select competent Workers.

The kinds of tasks humans can complete better than computers includes finding objects in photos, writing reviews of restaurants, movies, or businesses, translating text passages into foreign languages, getting the hours of operation of the business center within a hotel, determining if a hotel is family-friendly, or telling you the most relevant search results for a given phrase.

This guide presents a very slim slice of the Amazon Mechanical Turk API. For a complete description of the entire API, go to the [Amazon Mechanical Turk API Reference](#). For more information about using the API, go to the [Amazon Mechanical Turk Developer Guide](#).

## Features

The following list describes the features of Amazon Mechanical Turk highlighted by the tutorial in this guide.

- **On-demand workforce**—Amazon Mechanical Turk provides access to a virtual community of Workers.

- **Create jobs that Workers perform over the Internet**—Advertise your job to the thousands of Amazon Mechanical Turk Workers around the world. You prescribe the job (HIT) that Workers complete using their computer, and pay them for their work.
- **Test and publish your jobs**—Test your applications in the Amazon Mechanical Turk sandbox. Test your jobs in the Amazon Mechanical Turk sandbox and publish the revised jobs to the outside world.

Amazon Mechanical Turk provides SDKs and command line tools to make it easier to build solutions leveraging Amazon Mechanical Turk.

## Key Amazon Mechanical Turk Concepts

### Topics

- [Requester](#) (p. 4)
- [Human Intelligence Task](#) (p. 4)
- [Worker](#) (p. 4)
- [Assignment](#) (p. 4)
- [Reward](#) (p. 5)

This section describes key Amazon Mechanical Turk concepts.

## Requester

A *Requester* is a company, organization, or person that creates and submits tasks (HITs) to Amazon Mechanical Turk for Workers to perform. As a Requester, you can use a software application to interact with Amazon Mechanical Turk to submit tasks, retrieve results, and perform other automated tasks. You can use the [Requester website](#) to check the status of your HITs, and manage your account.

## Human Intelligence Task

A *Human Intelligence Task (HIT)* is a task that a Requester submits to Amazon Mechanical Turk for Workers to perform. A HIT represents a single, self-contained task, for example, "Identify the car color in the photo." Workers can find HITs listed on the Amazon Mechanical Turk website. For more information, go to the [Amazon Mechanical Turk website](#).

Each HIT has a lifetime, specified by the Requester, that determines how long the HIT is available to Workers. A HIT also has an assignment duration, which is the amount of time a Worker has to complete a HIT after accepting it.

## Worker

A *Worker* is a person who performs the tasks specified by a Requester in a HIT. Workers use the [Amazon Mechanical Turk website](#) to find and accept assignments, enter values into the question form, and submit the results. The Requester specifies how many Workers can work on a task. Amazon Mechanical Turk guarantees that a Worker can work on each task only one time.

## Assignment

An *assignment* specifies how many people can submit completed work for your HIT. When a Worker accepts a HIT, Amazon Mechanical Turk creates an assignment to track the work to completion. The

assignment belongs exclusively to the Worker and guarantees that the Worker can submit results and be eligible for a reward until the time the HIT or assignment expires.

## Reward

A *reward* is the money you, as a Requester, pay Workers for satisfactory work they do on your HITs

## Overview of Examples

This guide provides examples that show how to use the Amazon Mechanical Turk. It provides SDKs and command line tools to create a survey and publish it as a HIT.

## Selecting Your Language

The HTML version of this guide enables you to hide the text in this section that doesn't pertain to the programming language you are using. There is a language selection menu in the upper-right corner of pages with language-specific text. Select your computer language to show the examples in only that computer language, or select **All** to show the examples in all available computer languages.

You can also select **Command Line Tools**, which hides all code samples and leaves only information related to the command line tools.



The next section explains how to sign up for AWS, Amazon Mechanical Turk, and set up your development environment so that you can actually try the examples explained in the tutorial. You must complete all of these tasks before you can use Amazon Mechanical Turk.



# Setting Up Accounts and Tools

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## Topics

- [Installing Your Programming Tools \(p. 6\)](#)
- [Creating an AWS Account \(p. 8\)](#)
- [Viewing Your AWS Security Credentials \(p. 9\)](#)
- [Setting Up Your Requester Account \(p. 10\)](#)
- [Prepay for Your HITs \(p. 10\)](#)

This section describes the tasks you need to perform before you can use Amazon Mechanical Turk. If you have already developed applications for another AWS product, you only need to sign up for Amazon Mechanical Turk. For more information, see [Setting Up Your Requester Account \(p. 10\)](#). Otherwise, complete all of the tasks in this section.

## Installing Your Programming Tools

Amazon Mechanical Turk provides SDKs and command line tools designed to make it easier for you to build solutions leveraging Amazon Mechanical Turk. These SDKs and tools hide the complexity and simplify using the Amazon Mechanical Turk APIs.

The sections below provide instructions for installing the SDKs and command line tools. You must install one of the SDKs or the command line tools to run the examples in this guide.

## Showing Your Preferred Programming Language

If you are viewing the HTML version of this guide, you can hide text on this page that does not pertain to the programming language you are using. There is a **Filter View**: drop-down menu in the upper-right corner of pages with language-specific text. Select a computer language to show the examples in only that computer language, or select **All** to show the examples in all available computer languages.

## Installing Command Line Tools

You must install and configure the command line tools correctly before you can use the command line to work through the examples in this guide.

If you use Unix, use the following procedure.

### To install the Amazon Mechanical Turk command line tools for Unix users

1. Go to [Amazon Mechanical Turk Command Line Tools](#).
2. Go to the [[Command Line Tools Installation Directory](#)]\ directory and open the file `Overview.html`.
3. Follow the instructions in the section "Installing the command line tools" in the `Overview.html` file to install and configure the command line tools.  
You need your Access Key ID and Secret Access Key for this step.

If you use Windows, use the following procedure.

### To install the Amazon Mechanical Turk command line tools for Windows Users

1. Go to [Amazon Mechanical Turk Command Line Tools](#) and download the command line tools.
2. Run `mech-turk-setup.exe` and follow the instructions.  
This setup wizard installs and configures the command line tools. You need your Access Key ID and Secret Access Key for this step.

## Install C# Tools

### To install and configure the Amazon Mechanical Turk SDK for .Net

1. Go to [Amazon Mechanical Turk SDK for .NET](#) and download the Amazon Mechanical Turk SDK for .NET.
2. Open the file [[SDK Installation Directory](#)]\`Overview.html`.
3. Verify that you meet the prerequisites listed in the "Prerequisites" section of the `Overview.html` file.
4. Follow the instructions in the section "Installing the Amazon Mechanical Turk SDK for .NET" of the `Overview.html` file to install and configure the SDK.  
You need your Access Key ID and Secret Access Key for this step.

You must configure the SDK correctly before you can use the examples in this guide.

## Install Java Tools

### To install the Amazon Mechanical Turk SDK for Java

1. Go to [Amazon Mechanical Turk SDK for Java](#) and download the SDK for Java.
2. Open the file [[SDK Installation Directory](#)]\`Overview.html`.
3. Verify that you meet the prerequisites listed in the "Prerequisites" section of the `Overview.html` file.
4. Follow the instructions in the section "Installing the SDK" of the `Overview.html` file to install and configure the SDK.  
You need your Access Key ID and Secret Access Key for this step.

You must configure the SDK correctly before you can use the examples in this guide.

## Install Perl Tools

### To install the Amazon Mechanical Turk SDK for Perl

1. Go to [Amazon Mechanical Turk SDK for Perl](#) and download the SDK for Perl.
2. Open the file [*SDK Installation Directory*]\README.
3. Verify that you meet the prerequisites listed in the "Prerequisites" section of the README file.
4. Follow the instructions in the "Installation" section of the README file to install and configure the SDK. You need your Access Key ID and Secret Access Key for this step.

You must configure the SDK correctly before you can use the examples in this guide.

## Install Ruby Tools

### To install the Ruby Libraries for Amazon Web Services

1. Go to [Ruby Libraries for Amazon Web Services](#) and download the Ruby libraries.
2. Open the file [*SDK Installation Directory*]\README.
3. Verify that you meet the prerequisites listed in the "Prerequisites" section of the README file.
4. Follow the instructions in the "Installation" section of the README file to install and configure the libraries. You need your Access Key ID and Secret Access Key for this step.

You must configure the SDK correctly before you can use the examples in this guide.

## Creating an AWS Account

To develop with AWS web services, you must first create an AWS account. An AWS account is an Amazon.com account that enables you to use AWS web services. You can use the login name and password of your Amazon.com account to create your AWS account.



### Important

If you have a personal Amazon.com account, you might want to have a separate Amazon.com account reserved for your AWS activity. You could provide a new email address not already in the Amazon.com system, or provide an email address for an existing Amazon.com account you have but use a different password. You can have multiple Amazon.com accounts that use the same email address, but different passwords.

From your AWS account, you can view your AWS account activity, view usage reports, and manage your AWS account access identifiers. If you already have an AWS account, you can skip to the next section. For more information, see [Viewing Your AWS Identifiers \(p. 9\)](#). If you have already know how to view your AWS identifiers, you can skip right to signing up for Amazon Mechanical Turk. For more information, see [Setting Up Your Requester Account \(p. 10\)](#). Otherwise, complete the tasks in this section.

### To set up an AWS account

1. Go to <http://aws.amazon.com>.
2. In the **Sign Up for AWS** box, click **Sign up today**. The **Sign In** page displays.

3. Enter a valid email address, select the button for **No, I am a new customer**, and click **Continue**.  
The next page asks for a password and a name that you want to associate with the account. If you have an Amazon.com account, the email address for the account displays as the default login name.
4. Enter the name and password you want to associate with the account and click **Continue**.  
The **Account Info** page displays.
5. Enter your contact information and select how you learned about AWS. Then read the AWS Customer Agreement, select the check box to indicate that you've read and agree to the terms, and click **Continue**.  
The process is complete and you've created your AWS account.

## Viewing Your AWS Security Credentials

AWS uses special identifiers to help protect your data. In this section, we show you how to view your identifiers so you can use them. If you already know how to view your AWS security credentials, skip to the next section.

AWS assigns you the following credentials when you create your AWS account:

- **Access Key ID** - A 20-character, alphanumeric sequence that you include in all AWS service requests to identify yourself as the sender of the request.
- **Secret Access Key** - A 40-character sequence that you use to generate digital signatures.



### Caution

Your Secret Access Key is a shared secret between you and AWS. Keep this ID secret; we use it to bill you for the AWS services you use. Never include the ID in your requests to AWS and never email the ID to anyone even if an inquiry appears to originate from AWS or Amazon.com. No one who legitimately represents Amazon will ever ask you for your Secret Access Key.

When you create a request, you create a digital signature with your secret key and include it in the request along with your Access Key ID. When we get the request, we use your Access Key ID to look up the corresponding Secret Access Key. We use the key to validate the signature and confirm that you're the request sender.



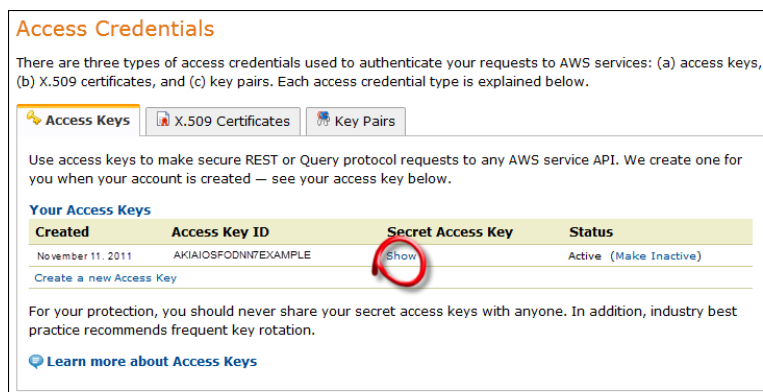
### Important

You can use these access identifiers in both the sandbox and the production environment.

Your Access Key ID and Secret Access Key display when you create your AWS account. They are not emailed to you. If you need to see them again, you can view them at any time from your AWS account.

### To view your Access Key ID and Secret Access Key

1. Go to the Amazon Security Credentials page at <http://aws.amazon.com/security-credentials>. If you are not logged in, you will be prompted for your user name and password.
2. Your Access Key ID is displayed on the resulting **Security Credentials** page in the **Access Credentials** area. Your Secret Access Key remains hidden as a further precaution as shown in the following figure.
3. To display your Secret Access Key, on the **Access Keys** tab, under **Secret Access Key**, click **Show**.



**Access Credentials**

There are three types of access credentials used to authenticate your requests to AWS services: (a) access keys, (b) X.509 certificates, and (c) key pairs. Each access credential type is explained below.

[Access Keys](#) [X.509 Certificates](#) [Key Pairs](#)

Use access keys to make secure REST or Query protocol requests to any AWS service API. We create one for you when your account is created — see your access key below.

**Your Access Keys**

Created	Access Key ID	Secret Access Key	Status
November 11, 2011	AKIAIOSFODNN7EXAMPLE	Show	Active <a href="#">(Make Inactive)</a>

[Create a new Access Key](#)

For your protection, you should never share your secret access keys with anyone. In addition, industry best practice recommends frequent key rotation.

[Learn more about Access Keys](#)

## Setting Up Your Requester Account

Before you can use Amazon Mechanical Turk, you must have an Amazon Mechanical Turk Requester account.

### To create and register a Requester account

1. Go to <http://requester.mturk.amazon.com>.
2. Click **Create an Account**.
3. Enter your email address.



#### Note

If you already have an Amazon.com account for your email address, you can sign in using your email address and password. However, we recommend creating a new account to use as a Requester.

4. Follow the prompts to complete your Requester account registration. When prompted, you must enter your mailing address and you must accept the **Amazon Mechanical Turk Participation Agreement**.

## Prepay for Your HITs

This tutorial uses the Amazon Mechanical Turk sandbox in which you can execute Amazon Mechanical Turk operations without having to pay Workers for working on your HITs. We recommend that you use the sandbox to test your applications before moving them to the production system. Before you use the production version of Amazon Mechanical Turk you need to prepay for the HITs you create. Otherwise, you can't post your HITs to Workers.

To post your HITs to Workers, you must have money in your Prepaid HIT Balance to prepay for all of your HITs. You can provide banking information, credit card or debit card information, or an Amazon Payments account to prepay for the HITs.

If you use a bank account, it can take up to one week for your transfer to be approved. During that time you can test your HITs in the Amazon Mechanical Turk Developer Sandbox, but you cannot create HITs on the Amazon Mechanical Turk production system. If you use a credit card, debit card, or Amazon Payments account to prepay, you can use the Amazon Mechanical Turk production system immediately.

For instructions on how to prepay for your HITs, go to the [Requester website](#).

The next section is a tutorial that takes you step-by-step through using Amazon Mechanical Turk to create a HIT. The tutorial is written procedurally so you should follow it from beginning to end. After completing the tutorial, you should have a good feel for the major tasks you can complete using Amazon Mechanical Turk.

Alternately, you can skip the tutorial and jump right to the last section that provides links to code samples, application examples, forums, and other resources designed to help you learn Amazon Mechanical Turk. For more information, see [Implementing Amazon Mechanical Turk \(p. 28\)](#).

# Creating a HIT

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## Topics

- [Workflow](#) (p. 12)
- [Working with the Examples](#) (p. 13)
- [What's Next?](#) (p. 27)

In the previous section you set up your AWS account, viewed your AWS identifiers, and installed the tools you need to use Amazon Mechanical Turk. In this section, you learn to write, publish, and manage a HIT. This section also contains code examples that demonstrate how to create, test, and publish your HIT.

## Workflow

The following procedure gives you an overview of creating, testing, publishing, and managing a HIT.

### Workflow for Requesters

1	Write your HIT. Write the question or task for Workers to answer or perform.
2	Test your HIT. Publish your HIT on the <i>Amazon Mechanical Turk Developer Sandbox</i> . The <i>Amazon Mechanical Turk Developer Sandbox</i> is a simulated environment that allows you to view your HIT as it would appear to Workers. For more information about the <i>Amazon Mechanical Turk Developer Sandbox</i> and how to use it, go to the <a href="#">Amazon Mechanical Turk Developer Sandbox</a> .
3	Publish your HIT on the Amazon Mechanical Turk production system. This step makes your HIT available to Workers.
4	Workers accept your HIT and complete the assignment. You can view the status of your HITs. For more information, go to the <a href="#">Requester website</a> .
5	Process the assignment results. When a Worker completes an assignment, you can view the results, output the results to a file, and accept or reject the work. Accepting the work means that you agree to pay the Worker.

6	Manage your HIT. You can extend the completion time for your HIT, expire the HIT early, add additional assignments, modify the HIT properties, or block Workers whose work does not meet your standards.
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The examples in this section provide instructions for performing tasks 1, 2, and 3. For information about tasks 5 and 6, see [Implementing Amazon Mechanical Turk \(p. 28\)](#).

## Working with the Examples

The following examples use SDK operations or the command line tools to show you how to create a survey that asks the question "How many movies have you seen this month?" The samples create a HIT and print the HIT ID to the console. These examples demonstrate how to publish the HIT to the *Amazon Mechanical Turk Developer Sandbox* for testing and then how to publish the HIT on the Amazon Mechanical Turk production system.

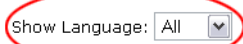
The following sections show you how to create and publish a HIT using the command line interface or the API and a programming language:

- [Creating a HIT Using the Command Line Interface \(p. 13\)](#)
- [API and C# \(p. 16\)](#)
- [API and Java \(p. 18\)](#)
- [API and Perl \(p. 21\)](#)
- [API and Ruby \(p. 24\)](#)

## Showing Your Preferred Programming Language

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You can also select **Command Line Tools**, which hides all code samples and leaves only information related to the command line tools.



## Creating a HIT Using the Command Line Interface

### Topics

- [How to Create a HIT \(p. 14\)](#)
- [How to Test Your HIT \(p. 15\)](#)
- [How to Publish Your HIT \(p. 15\)](#)

This example uses the commands in the *Amazon Mechanical Turk command line tools* to create a survey. You must have the command line tools installed and configured correctly to run this example.



## How to Create a HIT

The following procedure describes how to create the HIT, "MovieSurvey."

### To create the HIT

1. Create an input file, `moviesurvey.input`, a tab-delimited text file, and populate it with the variable data for the HIT.

```
question
How many movies have you seen this month?
```

2. Create a question template file, `moviesurvey.question`, and add the text of your HIT template. This XML file contains placeholders for the fields defined in the input file and conforms to the [QuestionForm](#) schema.

```
<?xml version="1.0" encoding="UTF-8"?>
<QuestionForm xmlns="http://mechanicalturk.amazonaws.com/AWSMechanicalTurk
DataSchemas/2005-10-01/QuestionForm.xsd">
  <Question>
    <QuestionIdentifier>1</QuestionIdentifier>
    <QuestionContent>
      <Text>${question}</Text>
    </QuestionContent>
    <AnswerSpecification>
      <FreeTextAnswer/>
    </AnswerSpecification>
  </Question>
</QuestionForm>
```

3. Create a HIT properties file, `moviesurvey.properties`, and populate it with the properties of the HIT (*title, description, etc.*)

```
#####
## HIT Properties
#####

title:Movie Survey
description:This is a survey to find out how many movies you have watched
recently.
keywords:movie, survey
reward:0.05
assignments:100
annotation:sample#command

#####
## HIT Timing Properties
#####

# this Assignment Duration value is 60 * 60 = 1 hour
assignmentduration:3600
```

```
# this HIT Lifetime value is 60*60*24*3 = 3 days
hitlifetime:259200

# this Auto Approval period is 60*60*24*15 = 15 days
autoapprovaldelay:1296000
```

4. Navigate to the `[Command Line Tools Installation Directory]\bin` directory to run the commands.

## How to Test Your HIT

To test your HIT, publish it in the sandbox by including the `-sandbox` argument with the `loadHITs` command.

### To test your HIT

1. Open a command prompt, navigate to the `[Command Line Tools Installation Directory]\bin` directory, and run the following command:

```
loadHITs -input c:\moviesurvey\moviesurvey.input -question c:\moviesur
vey\moviesurvey.question -properties c:\moviesurvey\moviesurvey.properties
-sandbox
```

2. Go to the [Amazon Mechanical Turk Developer Sandbox](#) and view your HIT. You can rewrite and rerun your HIT as often as you like.

## How to Publish Your HIT

When you are satisfied with your HIT, publish it to the production system.

### To publish your HIT to the production system

- Open a command prompt, navigate to the `[Command Line Tools Installation Directory]\bin` directory and run the following command:

```
loadHITs -input c:\moviesurvey\moviesurvey.input -question c:\moviesur
vey\moviesurvey.question -properties c:\moviesurvey\moviesurvey.properties
```

Your HIT is now on the production site.

## Creating a HIT Using the API

### Topics

- [C# \(p. 16\)](#)
- [Java \(p. 18\)](#)

- [Perl \(p. 21\)](#)
- [Ruby \(p. 24\)](#)

The following sections explain how to create a HIT using the Amazon Mechanical Turk API.

## C#

The following example uses the methods of the *Amazon Mechanical Turk SDK for .Net* to create the movie survey. You must have the SDK installed and configured correctly to run this example. To download the SDK go to [Amazon Mechanical Turk SDK for .NET](#).

### How to Create a HIT

This section shows how to create a HIT.

#### To create the HIT

1. Add a project reference to [*SDK Installation Directory*]\lib\Amazon.WebServices.MechanicalTurk.dll.
2. Add the following `using` statements to your source code:
  - `using Amazon.WebServices.MechanicalTurk`
  - `using Amazon.WebServices.MechanicalTurk.Domain`
3. Copy the `app.config` file from the [*SDK Installation Directory*]\src directory to your project directory and add the file to your project. This file contains the configuration and the AWS identifier information for your application.
4. Create a `SimpleClient` object. This class provides a client used to invoke single operations for Mechanical Turk. Typically, you create this object once and use it throughout your application.

```
static SimpleClient client = new SimpleClient();
```

5. Use one of the `CreateHIT()` methods in the `SimpleClient` class to create a HIT. The following example uses the `CreateHIT()` method that requires values for the `title`, `description`, `reward`, `question`, and `maxAssignments` parameters of the method.

```
HIT hit = client.CreateHIT(  
    "Movie Survey",  
    "This is a survey to find out how many movies you have watched recently.",  
    new decimal(0.05), "How many movies have you seen this month?", 100);
```

The following example pulls together all the code described in the preceding procedure.

```
using System;  
using System.Collections.Generic;  
using System.Text;
```

```
using Amazon.WebServices.MechanicalTurk;
using Amazon.WebServices.MechanicalTurk.Domain;

namespace CreateHITExample
{
    class Program
    {
        // Create a client as a class member.
        static SimpleClient client = new SimpleClient();

        static void Main(string[] args)
        {
            CreateNewHIT();
        }

        static void CreateNewHIT()
        {
            // Create a HIT with the specified parameters.
            HIT hit = client.CreateHIT(
                "Movie Survey",
                // title
                "This is a survey to find out how many movies you have watched
recently.", // description
                new decimal(0.05),
                // reward
                "How many movies have you seen this month?",
                // question
                100);
                // number of assignments

            // Write the new HIT Id to the console.
            Console.WriteLine("Created HIT: {0}", hit.HITId);
            Console.WriteLine("Hit Location: {0}", client.GetPreviewURL(hit.HIT
TypeId));
        }
    }
}
```

## How to Test Your HIT

When you compile and run the code example, your HIT is published on the *Amazon Mechanical Turk Developer Sandbox* by default. This is a simulated environment that enables you to view your HIT as it would appear to Workers. The sandbox is a free test environment for all Requesters.

### To test your HIT

1. Compile and run your project.  
If no errors occur, you see output similar to the following:

```
Created HIT: 2X6T66XZQARRM98X5030
HIT Location: http://workersandbox.mturk.com/mturk/preview?groupId=2X6T66XZQAR
RM98X5030
```

2. Go to the [Amazon Mechanical Turk Developer Sandbox](#) and view your HIT. You can rewrite and recompile your HIT as often as necessary.

## How to Publish Your HIT

When you are satisfied with your HIT, publish it on the Amazon Mechanical Turk production system. This makes your HIT available for Workers to complete.

### To publish your HIT

1. Open the `App.config` file for your project.
2. Under element `<appSettings>`, find the following entry:

```
<add key="MechanicalTurk.ServiceEndpoint" value="http://mechanicalturk.sandbox.amazonaws.com?Service=AWSMechanicalTurkRequester" />
```

3. Replace the entry with the following string:

```
<add key="MechanicalTurk.ServiceEndpoint" value="http://mechanicalturk.amazonaws.com/?Service=AWSMechanicalTurkRequester" />
```

4. Save and close the file.
5. Run your application.  
Your HIT is now on the production site.

## Java

The following example uses the APIs of the *Amazon Mechanical Turk SDK for Java* to create the movie survey. You must have the SDK installed and configured correctly before you run this example. To download the SDK go to [Amazon Mechanical Turk SDK for Java](#).

### How to Create a HIT

This section shows how to create a HIT.

#### To create the HIT

1. Specify all the `*.jar` files in the `[SDK Installation Directory]\lib` directory and in the `[SDK Installation Directory]\lib\third-party` directory in your classpath.
2. Specify all the `*.jar` files in the `[SDK Installation Directory]\build\lib` directory in your classpath.
3. Copy the `mturk.properties` file to your project. This file contains the configuration information needed for your project.
4. Import the following classes to your application.
  - `com.amazonaws.mturk.service.axis.RequesterService`
  - `com.amazonaws.mturk.service.exception.ServiceException`
  - `com.amazonaws.mturk.util.ClientConfig`
  - `com.amazonaws.mturk.requester.HIT`

5. Create a `RequesterService` object. This class provides the configuration information for your application.

```
service = new RequesterService(new PropertiesClientConfig());
```

6. Use one of the `CreateHIT()` methods in the `RequesterService` class to create a HIT. The following example uses the `CreateHIT()` method with parameter values for the `title`, `description`, `reward`, and `maxAssignments` properties of the HIT.

```
HIT hit = service.createHIT
(
    title,
    description,
    reward,
    RequesterService.getBasicFreeTextQuestion(
        "How many movies have you seen this month?"),
    numAssignments);
```

The following example pulls together all the code described in the preceding procedure.

```
package createnewhit;

import com.amazonaws.mturk.service.axis.RequesterService;
import com.amazonaws.mturk.service.exception.ServiceException;
import com.amazonaws.mturk.util.PropertiesClientConfig;
import com.amazonaws.mturk.requester.HIT;

/**
 * The MovieSurvey sample application creates a simple HIT using the
 * Amazon Mechanical Turk SDK for Java. The file mturk.properties must be found
 * in the current file path.
 */
public class MovieSurvey{

    private RequesterService service;

    // Define the properties of the HIT to be created.
    private String title = "Movie Survey";
    private String description =
        "This is a survey to find out how many movies you have watched recently.";

    private int numAssignments = 100;
    private double reward = 0.05;

    /**
     * Constructor
     */
    public MovieSurvey()
    {
        service = new RequesterService(new PropertiesClientConfig());
    }

    /**
     * Create a simple survey.
     */
}
```

```

    *
    */
    public void createMovieSurvey()
    {
        try
        {
            // The createHIT method is called using a convenience static method
            // RequesterService.getBasicFreeTextQuestion() that generates the question
            format
            // for the HIT.
            HIT hit = service.createHIT
            (
                title,
                description,
                reward,
                RequesterService.getBasicFreeTextQuestion(
                    "How many movies have you seen this month?"),
                numAssignments);

            // Print out the HITId and the URL to view the HIT.
            System.out.println("Created HIT: " + hit.getHITId());
            System.out.println("HIT location: ");
            System.out.println(service.getWebsiteURL() + "/mturk/preview?groupId="
+ hit.getHITTypeId());

        }
        catch (ServiceException e)
        {
            System.err.println(e.getLocalizedMessage());
        }
    }

    /**
     * Main method
     *
     * @param args
     */
    public static void main(String[] args)
    {
        // Create an instance of this class.
        MovieSurvey app = new MovieSurvey();

        // Create the new HIT.
        app.createMovieSurvey();
    }
}

```

## How to Test Your HIT

This section shows how to test your HIT.

When you compile and run the code example, your HIT is published on the *Amazon Mechanical Turk Developer Sandbox*. This is a simulated environment that enables you to view your HIT as it would appear to Workers. The sandbox is a free test environment for all Requesters.

### To test your HIT

1. Compile and run your project.

If no errors occur, you see output similar to the following:

```
Created HIT: 2X6T66XZQARRM98X5030  
HIT Location:  
http://workersandbox.mturk.com/mturk/preview?groupId=2X6T66XZQARRM98X5030
```

2. Go to the [Amazon Mechanical Turk Developer Sandbox](#) and view your HIT. You can rewrite and recompile your HIT as often as necessary.

## How to Publish Your HIT

When you are satisfied with your HIT, publish it on the Amazon Mechanical Turk production system. This makes your HIT available for Workers to complete.

### To publish your HIT

1. Open the `mturk.properties` file for your project.
2. Comment out the Developer Sandbox `service_url` with a "#".

```
#service_url=http://mechanicalturk.sandbox.amazonaws.com/?Service=AWSMechanicalTurkRequester
```

3. Remove the comment mark # from the Production site `service_url`.

```
service_url=http://mechanicalturk.amazonaws.com/?Service=AWSMechanicalTurkRequester
```

4. Save and close the file.
5. Compile and run your application.  
Your HIT is now on the production site.

## Perl

This example creates a movie survey using the methods of the *Amazon Mechanical Turk SDK for Perl*. You must have the SDK installed and configured correctly before you can run this example. To download the SDK go to [Amazon Mechanical Turk SDK for Perl](#).

### How to Create a HIT

You can use several different methods to create a HIT. You can define the format for the question and answer in a file. The following example writes the question format and the question in the script file. The example prints out the ID and the location of the new HIT to the console.

#### To create the HIT

1. Add the following line to your module to use the `MechanicalTurk` class.

```
use NET::Amazon::MechanicalTurk;
```

2. Define the question format. In this example, this is a string that defines the XML format of the question.



```
my $questionXml = <<END_XML;
<?xml version="1.0" encoding="UTF-8"?>
<QuestionForm xmlns="http://mechanicalturk.amazonaws.com/AWSMechanicalTurk
DataSchemas/2005-10-01/QuestionForm.xsd">
  <Question>
    <QuestionIdentifier>1</QuestionIdentifier>
    <QuestionContent>
      <Text>$question</Text>
    </QuestionContent>
    <AnswerSpecification>
      <FreeTextAnswer/>
    </AnswerSpecification>
  </Question>
</QuestionForm>
END_XML
```

3. Create a string that specifies the question for the HIT.

```
my $question = "How many movies have you seen this month?";
```

4. Create a client by creating an instance of the `MechanicalTurk` class.

```
my $mturk = Net::Amazon::MechanicalTurk->new;
```

5. Use the `CreateHIT()` method of the `MechanicalTurk` class and specify the properties of the HIT.

```
my $result = $mturk->CreateHIT(
  Title      => 'Movie Survey',
  Description => 'This is a survey to find out how many movies you have
watched recently',
  Keywords   => 'movie, survey',
  Reward => {
    CurrencyCode => 'USD',
    Amount       => 0.05
  },
  RequesterAnnotation      => 'Movie Survey',
  AssignmentDurationInSeconds => 60 * 60 * 24,
  AutoApprovalDelayInSeconds => 60 * 60 * 10,
  MaxAssignments           => 100,
  LifetimeInSeconds        => 60 * 60,
  Question                  => $questionXml
);
```

The following example pulls together all the code described in the preceding procedure.

```
#!/usr/bin/perl
use strict;
use warnings;
use Net::Amazon::MechanicalTurk;
use Net::Amazon::MechanicalTurk::IOUtil;
```

```
# Create the question to ask in the HIT.
my $question = "How many movies have you seen this month?";

# Create the format for the question.
my $questionXml = <<END_XML;
<?xml version="1.0" encoding="UTF-8"?>
<QuestionForm xmlns="http://mechanicalturk.amazonaws.com/AWSMechanicalTurkData
Schemas/2005-10-01/QuestionForm.xsd">
  <Question>
    <QuestionIdentifier>1</QuestionIdentifier>
    <QuestionContent>
      <Text>$question</Text>
    </QuestionContent>
    <AnswerSpecification>
      <FreeTextAnswer/>
    </AnswerSpecification>
  </Question>
</QuestionForm>
END_XML

# Create a MechanicalTurk object.
my $mturk = Net::Amazon::MechanicalTurk->new;

# Create the HIT with the properties specified.
my $result = $mturk->CreateHIT(
  Title      => 'Movie Survey',
  Description => 'This is a survey to find out how many movies you have watched
recently',
  Keywords   => 'movie, survey',
  Reward => {
    CurrencyCode => 'USD',
    Amount       => 0.05
  },
  RequesterAnnotation      => 'Movie Survey',
  AssignmentDurationInSeconds => 60 * 60 * 24,
  AutoApprovalDelayInSeconds => 60 * 60 * 10,
  MaxAssignments           => 100,
  LifetimeInSeconds        => 60 * 60,
  Question                  => $questionXml
);

# Print the HIT Id to the console.
printf "Created HIT:\n";
printf "HITId:      %s\n", $result->{HITId}[0];
printf "\nHIT Location: %s\n", $mturk->getHITTypeURL($result->{HITTypeId}[0]);
```

## How to Test Your HIT

When you run this code example, your HIT is published on the *Amazon Mechanical Turk Developer Sandbox* by default. This is a simulated environment that enables you to view your HIT as it would appear to Workers. The sandbox is a free test environment for all Requesters.

### To test your HIT

1. Run the sample to publish the HIT on the *Amazon Mechanical Turk Developer Sandbox*. If no errors occur, you see output similar to the following:

```
Created HIT: 2X6T66XZQARRM98X5030  
HIT Location: http://workersandbox.mturk.com/mturk/preview?groupId=2X6T66XZQARRM98X5030
```

2. Go to the [Amazon Mechanical Turk Developer Sandbox](#) and view your HIT. You can rewrite and recompile your HIT as often as necessary.

## How to Publish Your HIT

When you are satisfied with your HIT, publish it on the Amazon Mechanical Turk production system. This makes your HIT available for Workers to complete.

### To publish your HIT

1. Specify the production system in the `constructor` of the `MechanicalTurk` object. Your code should look like the following:

```
# Create a MechanicalTurk object.  
my $mturk = Net::Amazon::MechanicalTurk->new(serviceUrl=>"prod");
```

2. Save and close the file.
3. Compile and run your application.  
Your HIT is now on the production site.



### Note

To go back to using the Developer Sandbox, change the `constructor` to "sandbox":

```
# Create a MechanicalTurk object.  
my $mturk = Net::Amazon::MechanicalTurk->new(serviceUrl=>"sandbox");
```

## Ruby

This example uses the methods in the *Ruby Libraries for Amazon Web Services* to create the movie survey. You can use several different methods to create a HIT. You can write the question format and the question in the script file. In this example we create the question and the format in a file, and then print the ID of the new HIT to the console.

You must have the *Ruby Libraries for Amazon Web Services* installed and configured correctly before you run this example. To download the Ruby Libraries go to [Ruby Libraries for Amazon Web Services](#). The first time you run this example, or one of the examples in the *Ruby Libraries for Mechanical Turk*, you must provide your Access Key ID and Secret Access Key.

## How to Create a HIT

This section shows how to create a HIT.

### To write the HIT

1. Create a question file, `moviesurvey.question`, that contains the question for your HIT and the template for the question and answer. This is an XML file that conforms to the [QuestionForm](#) schema.

```
<?xml version="1.0" encoding="UTF-8"?>
<QuestionForm xmlns="http://mechanicalturk.amazonaws.com/AWSMechanicalTurk
DataSchemas/2005-10-01/QuestionForm.xsd">
  <Question>
    <QuestionIdentifier>1</QuestionIdentifier>
    <QuestionContent>
      <Text>How many movies have you seen this month?</Text>
    </QuestionContent>
    <AnswerSpecification>
      <FreeTextAnswer/>
    </AnswerSpecification>
  </Question>
</QuestionForm>
```

2. Require the ruby-aws library.

```
require 'ruby-aws'
```

3. Use the createHIT() method to create a new HIT.

```
def createNewHIT
  title = "Movie Survey"
  desc = "This is a survey to find out how many movies you have watched
recently."
  keywords = "movie, survey"
  numAssignments = 100
  rewardAmount = 0.05
```

The following example pulls together all the code described in the preceding procedure.

```
#!/usr/bin/env ruby

# This sample application creates a simple HIT using Libraries for Amazon Web
Services.

require 'ruby-aws'
@mturk = Amazon::WebServices::MechanicalTurkRequester.new :Host => :Sandbox

# Use this line instead if you want the production website.
#@mturk = Amazon::WebServices::MechanicalTurkRequester.new :Host => :Production

def createNewHIT
  title = "Movie Survey"
  desc = "This is a survey to find out how many movies you have watched re
cently."
  keywords = "movie, survey"
  numAssignments = 100
  rewardAmount = 0.05 # 5 cents

  # Define the location of the externalized question (QuestionForm) file.
  rootDir = File.dirname $0
  questionFile = rootDir + "/moviesurvey.question"
```

```
# Load the question (QuestionForm) file
question = File.read( questionFile )

result = @mturk.createHIT( :Title => title,
  :Description => desc,
  :MaxAssignments => numAssignments,
  :Reward => { :Amount => rewardAmount, :CurrencyCode => 'USD' },
  :Question => question,
  :Keywords => keywords )

puts "Created HIT: #{result[:HITId]}"
puts "HIT Location: #{getHITUrl( result[:HITTypeId] )}"
return result
end

def getHITUrl( hitTypeId )
  if @mturk.host =~ /sandbox/
    "http://workersandbox.mturk.com/mturk/preview?groupId=#{hitTypeId}" #
    Sandbox Url
  else
    "http://mturk.com/mturk/preview?groupId=#{hitTypeId}" # Production Url
  end
end

createNewHIT
```

## How to Test Your HIT

When you run this code example, your HIT is published on the *Amazon Mechanical Turk Developer Sandbox* by default. This is a simulated environment that enables you to view your HIT as it would appear to Workers. The sandbox is a free test environment for all Requesters.

### To test your HIT

1. Run the sample to publish the HIT on the *Amazon Mechanical Turk Developer Sandbox*. If no errors occur, you see output similar to the following:

```
Created HIT: 2X6T66XZQARRM98X5030
HIT Location: http://workersandbox.mturk.com/mturk/preview?groupId=2X6T66XZQAR
RM98X5030
```

2. Go to the [Amazon Mechanical Turk Developer Sandbox](#) and view your HIT. You can rewrite and recompile your HIT as often as necessary.

## How to Publish Your HIT

When you are satisfied with your HIT, publish it on the Amazon Mechanical Turk production system. This makes your HIT available for Workers to complete.

### To publish your HIT

1. In the sample code, find the following line and comment it out:

```
@mturk = Amazon::WebServices::MechanicalTurkRequester.new :Host => :Sandbox
```

2. In the sample code, remove the comment mark # from the following line:

```
#@mturk = Amazon::WebServices::MechanicalTurkRequester.new :Host => :Production
```

3. Save and close the file.
4. Run your application.  
Your HIT is now on the production site.

## What's Next?

You now have a HIT on the Amazon Mechanical Turk product site. You've become familiar with the architecture of the system, some of its basic functionality, and the kind of responses you can expect. The following section explains how to learn more about Amazon Mechanical Turk and how to implement advanced Amazon Mechanical Turk functionality in your applications.

# Implementing Amazon Mechanical Turk

---

In the preceding tutorial you learned how to complete basic Amazon Mechanical Turk tasks. If you didn't use the tutorial, you can learn how to complete basic and advanced Amazon Mechanical Turk tasks using the *Amazon Mechanical Turk Developer Guide* and by looking at code samples. For more information, go to [Amazon Mechanical Turk Developer Guide](#) and [Amazon Mechanical Turk Sample Code and Libraries](#), respectively.

This section discusses how you can increase your understanding of Amazon Mechanical Turk so that you can implement it in your applications.

## Interfaces

Amazon Mechanical Turk offers the following interfaces:

- Command line
- API
- Requester user interface

The Amazon Mechanical Turk command line interface (CLI) makes it easy to use most of the Amazon Mechanical Turk functionality. When you wish to have a hands-on approach to using Amazon Mechanical Turk and have a relatively small number of assignments and results, the CLI is a good choice. For more information, go to [Amazon Mechanical Turk Command Line Tool Reference](#).

When the number of assignments you have or the number of results you have is large, the Amazon Mechanical Turk API is a good choice. The API exercises all of Amazon Mechanical Turk's functionality and enables you to integrate Amazon Mechanical Turk functions programmatically. For more information, go to [Amazon Mechanical Turk Developer Guide](#).

If you have a very large number of similar HITs, consider using the Requester user interface. It merges one question template with lots of question data to create many similar HITs. For more information, go to [Amazon Mechanical Turk Requester User Interface](#).

## Considerations

Creating a successful HIT involves more than programming. There is a certain art involved, for example, in pricing a HIT correctly, laying out the question correctly, breaking down the task into HITs, and minimizing the Worker's time spent with the HIT. For that reason, we created a best practices guide that gives detailed instructions about creating an effective HIT. For more information, go to [Amazon Mechanical Turk Best Practices Guide](#).

Some of the HITs you create require the Workers to have special skills. You might, for example, publish a HIT that asks for a translation. Whenever you have a HIT that requires specialized skills, we recommend that you qualify the Workers. Only those who pass the test receive the opportunity to work on your HITs. For more information, go to [CreateHIT](#) and read about the *QualificationRequirement* parameter.

Once a Worker becomes qualified, you can grant them qualification status so that they no longer need to complete a qualification test before working on your HITs. For more information, go to [AssignQualification](#).

## Considerations for Writing a HIT

This guide presented a HIT for you to use. When you have to create your own, there are several things you should consider:

- What is the problem you are trying to solve?  
What questions do you want the Workers to answer? What is the best way to present the task to Workers? You need this information when you write the description and question for your HIT. You should be familiar with the format to create your question or task. For more information, go to the [Amazon Mechanical Turk Developer Guide](#).
- How much do you want to pay Workers?  
You need to specify a reward for your HIT. Setting too low a reward discourages Workers from working on your HITs. You need to determine what a fair price is for the work you're asking the Workers to do. The best way is to look at similar tasks advertised on the Amazon Mechanical Turk website. For more information, go to the [Amazon Mechanical Turk website](#).
- How many responses do you want?  
This is the number of assignments for your HIT. Sometimes you want only one answer per HIT. When the answer is controversial, however, you might like to get multiple answers (and thus use multiple assignments) per HIT and reach an answer by consensus.
- How much time do you want to allow to complete the task?  
Giving a Worker too long a time potentially delays getting results. Making the duration too short frustrates Workers.

## Common Use Scenarios

This section describes some of the ways you can use Amazon Mechanical Turk.

### Photo and Video Processing

Amazon Mechanical Turk is well-suited for processing images. In the past, companies have used Mechanical Turk to:

- Tag objects found in an image for easier searching and advertising targeting
- Select from a set of images the best picture to represent a product
- Audit user-uploaded images for inappropriate content



- Classify objects found in satellite imagery

## Data Verification and Clean-up

Companies with large online catalogs use Amazon Mechanical Turk to identify duplicate entries and verify item details. Examples include:

- De-duplication of yellow pages directory listings
- Identification of duplicate products in an online product catalog
- Verification of restaurant details, such as the phone number or hours of operation

## Information Gathering

The Amazon Mechanical Turk workforce enables you to gather information, such as:

- Allowing people to ask questions from a computer or mobile device about any topic and have Workers return results to those questions
- Filling out survey data on a variety of topics
- Writing reviews, descriptions and blog entries for websites
- Finding specific fields or data elements in large legal and government documents

## Data Processing

Use Amazon Mechanical Turk to process data, for example:

- Podcast editing and transcription
- Human powered translation services
- Search engine rating

## Coding Resources

To help you code your applications, we provide the following resources:

- **Sample Code and Libraries**—Take a look on the Resource Center for sample code and libraries written for Amazon Mechanical Turk  
You can use these code samples as a means of understanding how to implement the Amazon Mechanical Turk API. For more information, go to [Amazon Mechanical Turk Sample Code and Libraries](#).
- **Customer Forum**—We recommend you look at the Amazon Mechanical Turk Forum to get an idea of what other users are doing and to benefit from the questions they've asked  
The forum can help you understand what you can and can't do with Amazon Mechanical Turk. The forum also serves as a place for you to ask questions that other users or Amazon representatives might answer. You can use the forum to report issues with the service, the API, or the documentation. For more information, go to [Amazon Mechanical Turk Discussion Forums](#).

## Advanced Functionality

The tutorial in this guide showed how to accomplish the basic tasks of creating, testing, and publishing your HITs. The Amazon Mechanical Turk API, however, offers advanced functionality, which the following table summarizes. For more information, go to the [Amazon Mechanical Turk Developer Guide](#).

Functionality	Description
Review the work submitted by Workers	You reward work well done by paying the Worker. If work is not done well, you can elect not to pay the Worker and block them from future assignments. For more information, go to <a href="#">GetReviewableHITs</a> , <a href="#">RejectAssignment</a> , <a href="#">BlockWorker</a> , and <a href="#">ApproveAssignment</a> .
Give bonuses	You might like to give a bonus to a Worker that does especially good work. This gives the Worker incentive to work on one of your other HITs. By rewarding Workers, you can create a small group of qualified people who you know do good work. They, in turn, will prioritize your HITs over others so that Workers complete your HITs in a timely manner. For more information about awarding bonuses, go to <a href="#">GrantBonus</a> .
Review results programmatically	Reviewing the results manually is an option when the number of assignments is small. As the number of assignments grows, reviewing results programmatically becomes more practical. The Amazon Mechanical Turk API enables you to do that. For more information, go to <a href="#">GetReviewableHITs</a>
Cancel a HIT	There are times when the results, although accurate, are unexpected and unusable by you. In that case, you have to expire the HIT, revise, and recreate it. For more information, go to <a href="#">ForceExpireHIT</a> .
Update HIT properties	You can use API operations and the command line tools to update HIT properties, such as Title, Description, Reward, and Keywords. For more information, go to <a href="#">ChangeHITTypeOfHIT</a> .
Extend or eliminate HITs	You can also use the API operations to extend the completion time for a HIT, expire a HIT early, or add additional assignments. For more information, go to <a href="#">ExtendHIT</a> and <a href="#">DisposeHIT</a> .
Communicate with Workers	You can use <a href="#">NotifyWorkers</a> to send emails to specified Workers.
Return the amount of money in your account that you use to pay Workers	Before you can publish Amazon Mechanical Turk HITs, your account must contain the money required to pay for all of the assignments. You can programmatically access the amount of money in your account using <a href="#">GetAccountBalance</a> .
Create your own qualifications for Workers	We recommend that you use qualification tests when completing your HITs requires specialized skills. You can create your own qualification tests using <a href="#">CreateQualificationType</a> .

## Reference Resources

The following list shows additional resources you can use to further your understanding of Amazon Mechanical Turk.

- Learn the pricing for Amazon Mechanical Turk. For more information, go to [Pricing](#).

- Use libraries for Amazon Mechanical Turk written in Java and PHP.  
For more information, go to [Sample Code and Libraries](#).
- The Quick Reference Card provides quick access to important Amazon Mechanical Turk operations and functionality.  
For more information, go to [Quick Reference Card](#).
- When you have questions about developing with Amazon Mechanical Turk visit the customer forum to get your questions answered.  
A wide variety of questions have already been answered in the forum. If your question has not been answered, ask it and wait for a fellow developer or Amazon representative to help. For more information, go to [Amazon Mechanical Turk Developer Forums](#).
- The Service Health Dashboard shows you the status of the Amazon Mechanical Turk web service. The dashboard shows you whether Amazon Mechanical Turk (and all other AWS web services) are functioning properly. For more information, go to [Service Health Dashboard](#).
- The *Amazon Mechanical Turk Developer Guide* provides a detailed discussion of the service. For more information, go to [Amazon Mechanical Turk Developer Guide](#).
- The HIT page shows the Amazon Mechanical Turk HITs available to work on.  
For more information, go to the [HIT page](#).

# Document History

This Document History describes the important changes to the documentation in this release of Amazon Mechanical Turk.

## Relevant dates to this History

- **Current product version**-2011-10-01
- **Latest product release**-December 2011
- **Latest documentation update**-01 December 2011

Change	Description	Release Date
New Mechanical Turk Review Policies	Amazon Mechanical Turk has added Review Policies that you can use to evaluate Worker submissions against a defined set of criteria. For more information, see <a href="#">Review Policies</a> .	In this Release
Mechanical Turk Masters Qualifications	Amazon Mechanical Turk has added two new Mechanical Turk Masters Qualification types: Categorization Masters and Photo Moderation Masters. The new Mechanical Turk Masters role is established for an elite group of Workers who have demonstrated accuracy on specific types of HITs on the Mechanical Turk marketplace. For more information, see <a href="#">Qualification Requirement</a> .	2011-06-22
Technical documents reorganized	The API reference and the command line tool reference have been split out of the Amazon Mechanical Turk Developer Guide. Now, on the documentation landing page, <a href="#">Amazon Mechanical Turk Documentation</a> you can select the document you want to view. When viewing the documents online, the links in one document will take you, when appropriate, to one of the other guides.	2009-09-16