Configure DynamoDB with the AWS JavaScript SDK
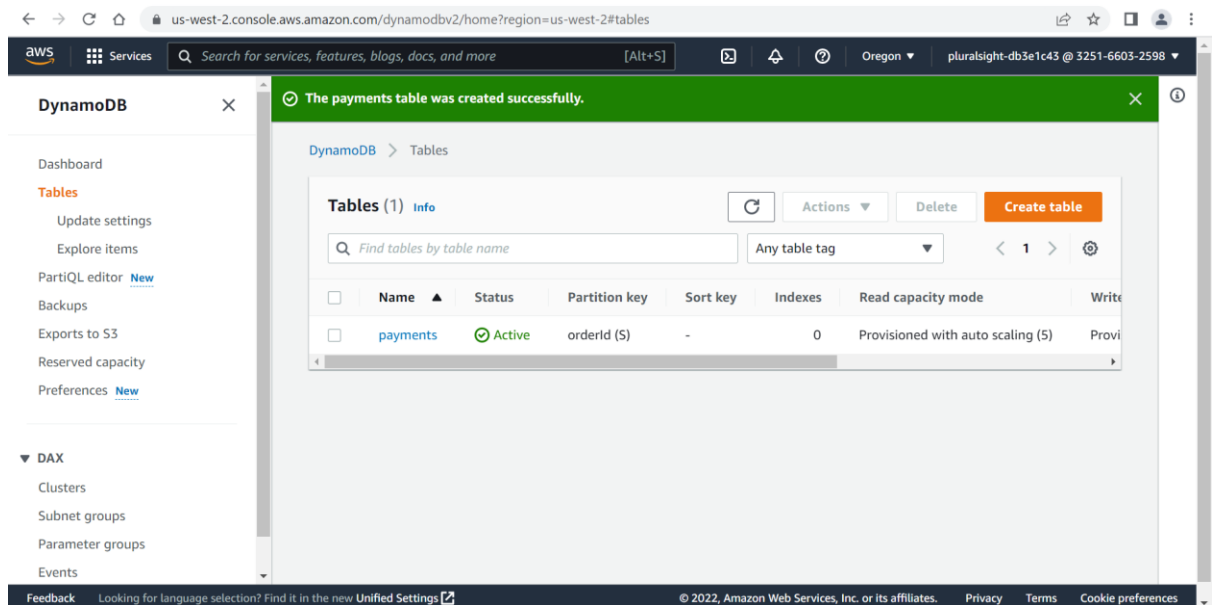
1. Create a DynamoDB Table

1. Use the Cloud9 Environment
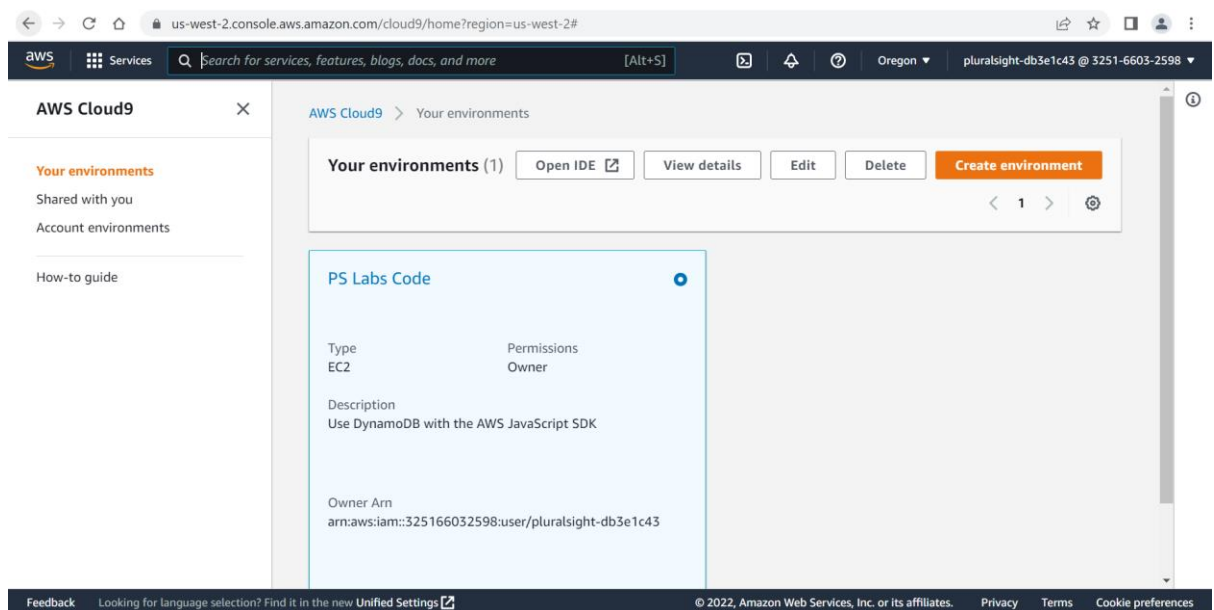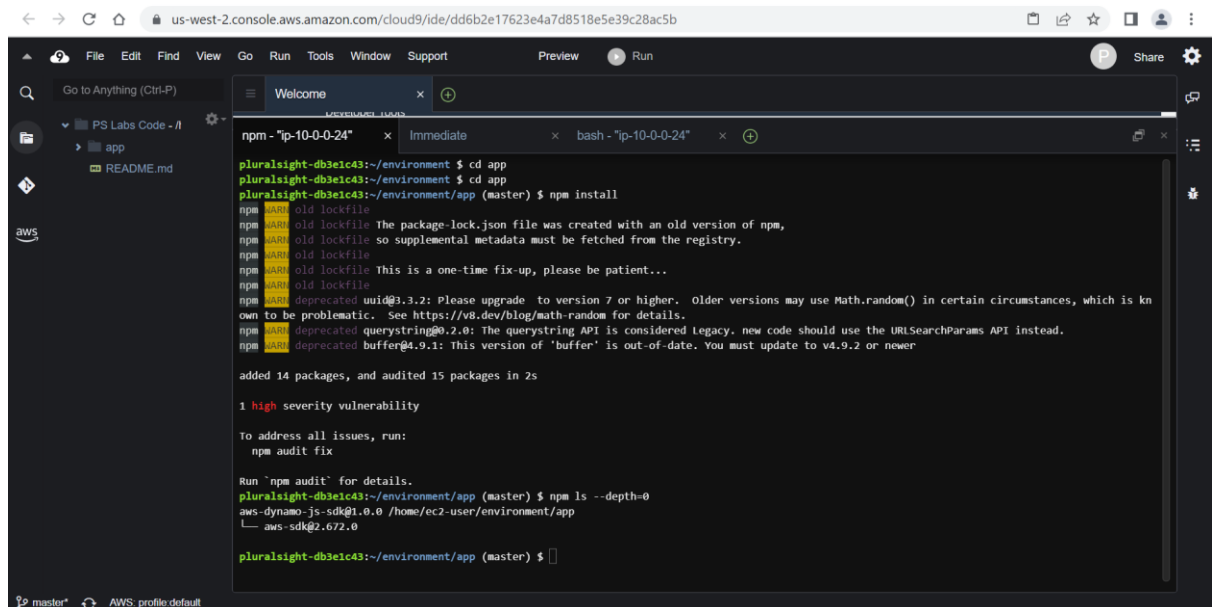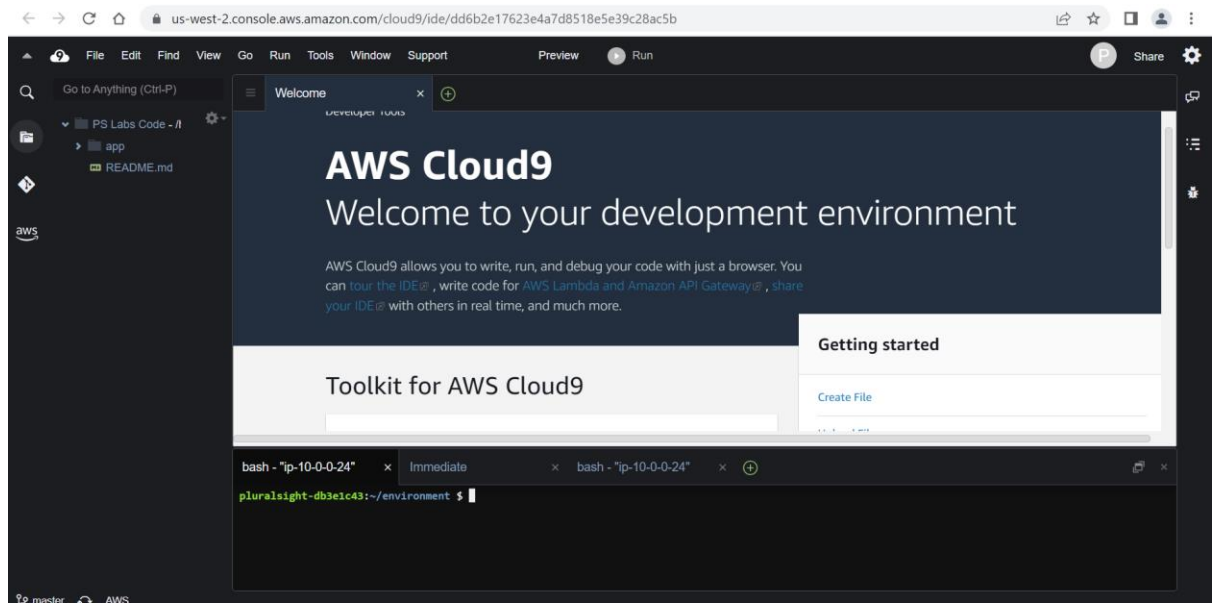
2. Write Items to DynamoDB

Screenshot 1

Browser URL: us-west-2.console.aws.amazon.com/cloud9/ide/dd6b2e17623e4a7d8518e5e39c28ac5b

Menu: File Edit Find View Go Run Tools Window Support | Preview | Run | Share

Tabs: Welcome | store.js

```
 9      },
10      ReturnConsumedCapacity: 'TOTAL',
11    };
12
13    function buildItem(r) {
14      return {
15        PutRequest: {
16          Item: {
17            orderId: r.order,
18            paidAt: r.date,
19            totalAmount: r.total,
20          },
21        },
22      };
23    }
24
25    function loadPayments() {
26      return db.batchWrite(paymentItems).promise();
27    }
28    module.exports = {
29      loadPayments
30    }
31
```

29:15   JavaScript   Spaces: 2

Terminal tabs: npm - "ip-10-0-0-24" | Immediate | bash - "ip-10-0-0-24"

```
Run `npm audit` for details.
pluralsight-db3e1c43:~/environment/app (master) $ npm ls --depth=0
aws-dynamo-js-sdk@1.0.0 /home/ec2-user/environment/app
└── aws-sdk@2.672.0

pluralsight-db3e1c43:~/environment/app (master) $
```

master*   AWS: profile:default

Screenshot 2

Browser URL: us-west-2.console.aws.amazon.com/cloud9/ide/dd6b2e17623e4a7d8518e5e39c28ac5b

Menu: File Edit Find View Go Run Tools Window Support | Preview | Run | Share

Tabs: Welcome | store.js | index.js

```
 1    const store = require('./store');
 2
 3    async function run() {
 4      // add new code here
 5      const result = await store.loadPayments();
 6      console.log(result);
 7
 8    }
 9
10    run();
11
```

6:3   JavaScript   Spaces: 4

Terminal tabs: npm - "ip-10-0-0-24" | Immediate | bash - "ip-10-0-0-24"

```
Run `npm audit` for details.
pluralsight-db3e1c43:~/environment/app (master) $ npm ls --depth=0
aws-dynamo-js-sdk@1.0.0 /home/ec2-user/environment/app
└── aws-sdk@2.672.0

pluralsight-db3e1c43:~/environment/app (master) $
```

master*   AWS: profile:default

3. Get Item from DynamoDB

File Edit Find View Go Run Tools Window Support   Preview   Run   Share

Welcome   JS store.js   JS index.js

```js
          totalAmount: r.total,
        },
      },
    };
}
function loadPayments() {
    return db.batchWrite(paymentItems).promise();
}
module.exports = {
    loadPayments
}

function listAllPayments() {

    return db.scan({

      TableName: 'payments'

    }).promise();

}

module.exports = {
    loadPayments,
    listAllPayments
}
```

45:2   JavaScript   Spaces: 2

npm - "ip-10-0-0-24"   Immediate   bash - "ip-10-0-0-24"

```
}
pluralsight-db3e1c43:~/environment/app (master) $
```

master*   AWS: profile:default

File Edit Find View Go Run Tools Window Support   Preview   Run   Share

Welcome   JS store.js   JS index.js

```js
const store = require('./store');

async function run() {
    // add new code here
    const result = await store.loadPayments();
    console.log(result);
    const allItems = await store.listAllPayments();
    console.log(allItems.Items);

}

run();
```

8:3   JavaScript   Spaces: 4

npm - "ip-10-0-0-24"   Immediate   bash - "ip-10-0-0-24"

```
}
pluralsight-db3e1c43:~/environment/app (master) $
```

master*   AWS: profile:default

File   Edit   Find   View   Go   Run   Tools   Window   Support   Preview   Run   Share

Go to Anything (Ctrl-P)

Welcome   JS store.js   JS index.js

```
1   const store = require('./store');
2
3   async function run() {
4     // add new code here
5     const result = await store.loadPayments();
6     console.log(result);
7     const allItems = await store.listAllPayments();
8     console.log(allItems.Items);
9
10  }
11
12  run();
13
```

PS Labs Code - /l
  app
    node_modules
    JS index.js
    {} package-lock.json
    package.json
    JS payments.js
    JS store.js
    README.md

13:1   JavaScript   Spaces: 4

node - "ip-10-0-0-24"   Immediate

```
}
pluralsight-db3e1c43:~/environment/app (master) $ node index.js
{
  UnprocessedItems: {},
  ConsumedCapacity: [ { TableName: 'payments', CapacityUnits: 5 } ]
}
[
  { totalAmount: '15.73', paidAt: '2018-11-03', orderId: '222' },
  { totalAmount: '35.12', paidAt: '2019-03-02', orderId: '666' },
  { totalAmount: '45.35', paidAt: '2019-02-02', orderId: '555' },
  { totalAmount: '21.99', paidAt: '2019-01-01', orderId: '444' },
  { totalAmount: '17.22', paidAt: '2018-12-25', orderId: '333' }
]
pluralsight-db3e1c43:~/environment/app (master) $
```

master*   AWS: profile:default

File   Edit   Find   View   Go   Run   Tools   Window   Support   Preview   Run   Share

Go to Anything (Ctrl-P)

Welcome   JS store.js   JS index.js

```
1   const store = require('./store');
2
3   async function run() {
4     // add new code here
5     const result = await store.loadPayments();
6     console.log(result);
7     const allItems = await store.listAllPayments();
8     console.log(allItems.Items);
9     const order = await store.getByOrderId('444');
10    console.log(order);
11
12  }
```

PS Labs Code - /l
  app
    node_modules
    JS index.js
    {} package-lock.json
    package.json
    JS payments.js
    JS store.js
    README.md

10:3   JavaScript   Spaces: 4

node - "ip-10-0-0-24"   Immediate

```
]
pluralsight-db3e1c43:~/environment/app (master) $ node index.js
{
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  { totalAmount: '45.35', paidAt: '2019-02-02', orderId: '555' },
  { totalAmount: '21.99', paidAt: '2019-01-01', orderId: '444' },
  { totalAmount: '17.22', paidAt: '2018-12-25', orderId: '333' }
]
{
  Item: { totalAmount: '21.99', paidAt: '2019-01-01', orderId: '444' }
}
pluralsight-db3e1c43:~/environment/app (master) $
```

master*   AWS: profile:default